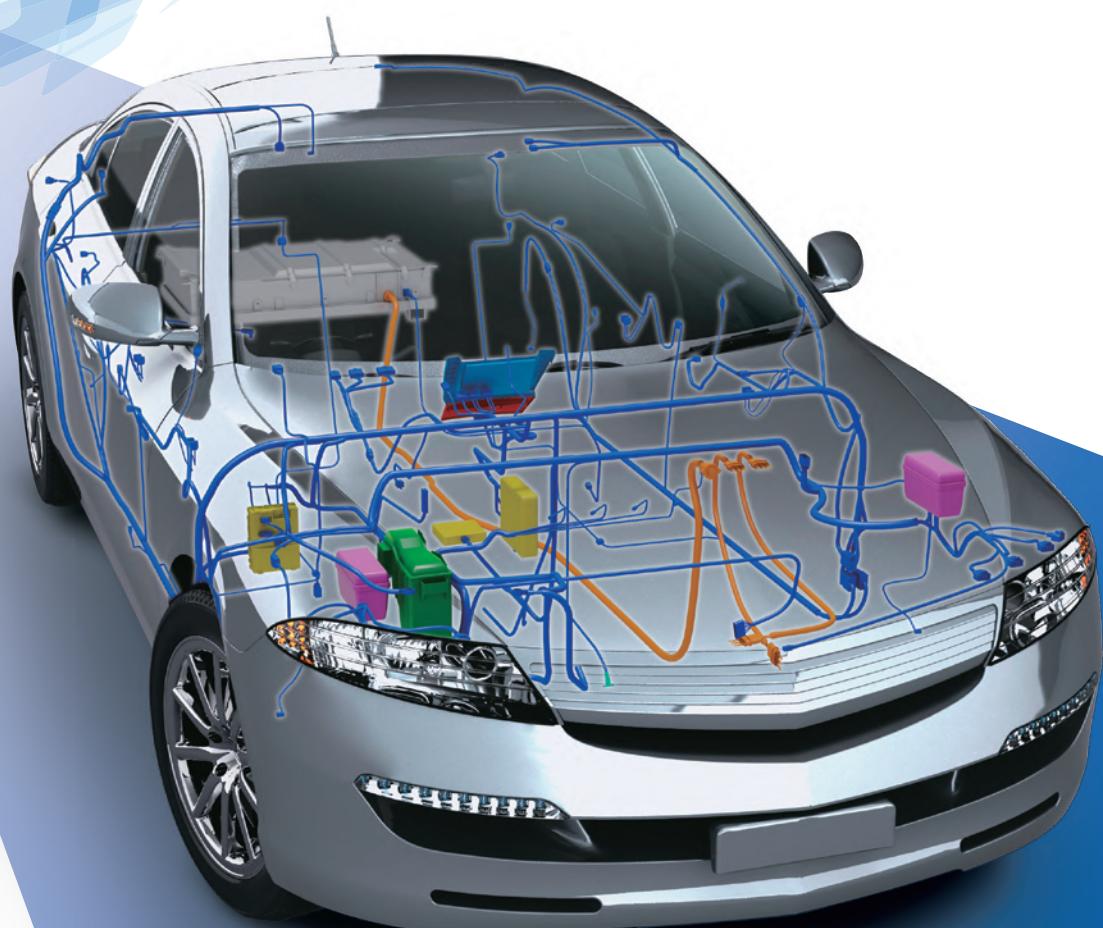


# CONNECTORS FOR AUTOMOBILES

自動車用コネクタ



# CONTENTS

unsealed / sealed 非防水 / 防水	Connector Series コネクタ シリーズ	Terminal Tab Size 端子サイズ	No. of Way Variation 極数バリエーション	Applicable Cable Size 適用電線サイズ	Page 掲載頁	Contact Resistance 接触抵抗 (圧着部を含む)	Leak Current リーク電流	Insulation Resistance 絶縁抵抗	Seal シール性	Material 材質
unsealed	TS	0.64 (025)	2, 5, 10, 14, 16, 19, .22, 24, 28, 32, 36, .40	0.13 - 0.5	A-02	8mΩ max.(initial) 16mΩ max.(after durability tests)	3mA max.	100MΩ min.	—	ハウジング ターミナル Housing / PBT Terminal / Brass, Heat-Resistant Copper Alloy
		1.5 (060)	2, 4, 8, 12	0.13 - 2.0	A-07	ハウジング ターミナル Housing / PBT, PA6T Terminal / Brass, Heat-Resistant Copper Alloy				
		2.3 (090)	2, 6, 8, 9, 10, 11, 12, 13, 16, 20	0.22 - 2.0	A-10	3mΩ max.(initial) 10mΩ max.(after durability tests)				ハウジング ターミナル Housing / PBT, PA6T Terminal / Brass, Heat-Resistant Copper Alloy
		4.8 (187)	1, 2, 3, 4, 6, 8, 10	0.3 - 3.0	A-14	ハウジング ターミナル Housing / PBT Terminal / Brass, Heat-Resistant Copper Alloy				
		8.0 (312)	1, 2, 3, 4	0.5 - 8.0	A-18	ハウジング ターミナル Housing / PBT Terminal / Brass, Heat-Resistant Copper Alloy				
		0.64+1.5	12, 18, 20	—	A-20	ハウジング ターミナル Housing / PBT Terminal / Brass, Heat-Resistant Copper Alloy				
		0.64+2.3	17, 18, 20	—	A-21	8mΩ max.(initial) 16mΩ max.(after durability tests)				ハウジング ターミナル Housing / PBT, SPS Terminal / Brass
		0.64+4.8	20	—	A-22	3mΩ max.(initial) 10mΩ max.(after durability tests)				ハウジング ターミナル Housing / LCP Terminal / Brass
		2.3+4.8	14, 15, 20	—	A-22	3mΩ max.(initial) 10mΩ max.(after durability tests)				ハウジング ターミナル Housing / PBT, SPS Terminal / Brass
		PCB	0.64	16, 33, 36, 56, 60, 68	—	A-24	8mΩ max.(initial) 16mΩ max.(after durability tests)			ハウジング ターミナル Housing / PBT, SPS Terminal / Brass
			0.64+1.5	20	—	A-26	8mΩ max.(initial) 16mΩ max.(after durability tests)			ハウジング ターミナル Housing / LCP Terminal / Brass
unsealed	HE	0.64 (025)	2, 3, 4, 6, 7, 10, 12, 16, 20, 24, 34	0.22 - 0.75	C-02	5mΩ max.(initial) 10mΩ max.(after durability tests)	1mA max.	100MΩ min.	—	ハウジング ターミナル Housing / PBT Terminal / Brass, Heat-Resistant Copper Alloy
		1.0 (040)	2, 5, 6, 8, 13, 17, 21	0.22 - 0.85	C-06					
		2.3 (090)	2, 3, 4, 5, 6, 8, 10, 14, 16, 20	0.3 - 2.0	C-09	3mΩ max.(initial) 6mΩ max.(after durability tests)				
		4.8 (187)	2, 4, 5	0.3 - 3.0	C-12					
		9.5 (375)	1, 2	2.0 - 10.0	C-14	2mΩ max.(initial) 4mΩ max.(after durability tests)				
		0.64+2.3	12, 13, 18, 20, 23, 28	—	C-16					
		1.0+2.3	9, 10, 14, 23	—	C-18	5mΩ max.(initial) 10mΩ max.(after durability tests)				
		Hybrid	1.0+4.8	12, 14	—	C-19				
			2.3+4.8	8, 14, 16, 18, 20	—	C-20	3mΩ max.(initial) 6mΩ max.(after durability tests)			
			4.8+8.0	6	—	C-21				
			1.0	13	—	C-22				
			1.0+2.3	23	—	C-22	5mΩ max.(initial) 10mΩ max.(after durability tests)			ハウジング ターミナル Housing / PBTG30 Terminal / Brass
unsealed	NH	1.0+4.8	14	—	C-23					
		2.3	6	—	C-23	3mΩ max.(initial) 6mΩ max.(after durability tests)				
		0.64 (025)	3, 4, 8, 10, 12, 16, 24, 32, 40	0.22 - 0.75	F-02	10mΩ max.(initial) 30mΩ max.(after durability tests)	1mA max.	100MΩ min.	—	ハウジング ターミナル Housing / PBT Terminal / Brass, Heat-Resistant Copper Alloy
		Hybrid	0.64+2.3	20	—	F-07				
unsealed	SL	1.5 (060)	4, 12, 14, 16	0.3 - 2.0	I-02	3mΩ max.(initial) 10mΩ max.(after durability tests)	3mA max.	100MΩ min.	—	ハウジング ターミナル Housing / PBT Terminal / Heat-Resistant Copper Alloy
		2.3 (090)	2, 4, 6, 12, 14, 16, 18	0.3 - 2.0	I-05					ハウジング ターミナル Housing / PBT Terminal / Brass, Heat-Resistant Copper Alloy
		2.8 (110)	4	0.3 - 3.0	I-08					ハウジング ターミナル Housing / PBT Terminal / Heat-Resistant Copper Alloy
		Hybrid	1.5+2.8	14	—	I-10				
unsealed	DL	0.64 (025)	2	0.22 - 0.75	K-02	5mΩ max.(initial) 10mΩ max.(after durability tests)	3mA max.	100MΩ min.	—	ハウジング ターミナル Housing / PBT Terminal / Brass, Heat-Resistant Copper Alloy
		1.0 (040)	4, 8, 12, 16, 20	0.3 - 1.25	K-04					
		2.3 (090)	2, 4, 6, 10, 14, 16	0.3 - 2.0	K-07	3mΩ max.(initial) 10mΩ max.(after durability tests)				

unsealed / sealed 非防水 / 防水	Connector Series コネクタ シリーズ	Terminal Tab Size 端子サイズ	No. of Way Variation 極数バリエーション	Applicable Cable Size 適用電線サイズ	Page 掲載頁	Contact Resistance 接触抵抗 (圧着部を含む)	Leak Current リーク電流	Insulation Resistance 絶縁抵抗	Seal シール性	Material 材質
sealed	TS sealed	0.64 (025)	2, 3, 4, 5, 6, 8, 10, 12, 13, 15, 17, 20, 30	0.13 - 0.5	B-02					
		0.64W (025W)	4	0.3 - 0.6	B-08	8mΩ max.(initial) 16mΩ max.(after durability tests)	50µA max.			
		Hybrid 0.64W+2.3+4.8	38, 46	—	B-10					
		2.3 (090)	2, 3, 4, 5, 6, 7	0.3 - 2.0	B-12					
		4.8 (187)	1, 2, 3	0.3 - 3.0	B-19	3mΩ max.(initial) 10mΩ max.(after durability tests)	100µA max.			
		8.0 (312)	1, 2	0.5 - 8.0	B-23			100MΩ min	50kPa min. (initial) 30kPa min. (after durability tests)	Housing / PBT, PA6T Terminal / Brass, Heat-Resistant Copper Alloy Wire Seal / Silicon
		0.64+2.3	10, 13, 26	—	B-26					
		0.64+4.8	4, 24, 34, 40, 46	—	B-27	8mΩ max.(initial) 16mΩ max.(after durability tests)	50µA max.			
		Hybrid 0.64+2.3+4.8	42, 52	—	B-28					
		2.3+4.8	4, 5, 6, 11	—	B-29	3mΩ max.(initial) 10mΩ max.(after durability tests)	100µA max.			
		4.8+8.0	3	—	B-30					
	HV/HVG sealed	1.0 (040)	2, 3, 4, 5, 6, 10	0.3 - 1.25	D-02	5mΩ max.(initial) 10mΩ max.(after durability tests)	100µA max.	100MΩ min	98kPa min. (initial) 49kPa min. (after durability tests)	Housing / PBT Terminal / Brass, Heat-Resistant Copper Alloy Wire Seal / Silicon
sealed	HX sealed	1.0 (040)	1, 2, 3, 5, 6, 7	—	E-02					
		1.0 (040)	23, 33	0.3 - 1.25	E-06					
		Joint Connector	23	—	E-08	5mΩ max.(initial) 10mΩ max.(after durability tests)				
		Hybrid Joint Connector	0.64+1.0	22	E-10					
		1.5 (060)	2, 3, 4, 8, 12	0.13 - 2.0	E-13	3mΩ max.(initial) 6mΩ max.(after durability tests)	100µA max.	100MΩ min	98kPa min. (initial) 49kPa min. (after durability tests)	Housing / PBT Terminal / Brass, Heat-Resistant Copper Alloy Wire Seal / Silicon
		2.3 (090)	1, 2, 3, 4	0.3 - 2.0	E-17					
		1.0+4.8	13	—	E-21	5mΩ max.(initial) 10mΩ max.(after durability tests)				
		Hybrid	1.5+4.8	4, 5	E-21	3mΩ max.(initial) 6mΩ max.(after durability tests)				
		2.3+4.8	10	—	E-22					
		RS	2.3 (090)	1, 2, 3, 4, 5, 6, 8	G-02	3mΩ max.(initial) 10mΩ max.(after durability tests)	10µA max.	100MΩ min	98kPa min. (initial) 98kPa min. (after durability tests)	Housing / PBT Terminal / Brass, Heat-Resistant Copper Alloy Wire Seal / Silicon
sealed	TL	2.3 (090)	1, 2, 4, 5	0.3 - 2.0	H-02	5mΩ max.(initial) 10mΩ max.(after durability tests)	50µA max.	100MΩ min	98kPa min. (initial) 98kPa min. (after durability tests)	Housing / PBT Terminal / Brass, Heat-Resistant Copper Alloy Wire Seal / Silicon
		1.5 (060)	2, 3, 14	0.3 - 2.0	J-02					
		2.3 (090)	1, 2, 3, 4, 6	0.3 - 2.0	J-06	3mΩ max.(initial) 10mΩ max.(after durability tests)	100µA max.	100MΩ min	49.0kPa min. (initial) 29.4kPa min. (after durability tests)	Housing / PBT Terminal / Brass, Heat-Resistant Copper Alloy Wire Seal / Silicon
		8.0 (312)	2	2.0 - 8.0	J-09					
		DL sealed	2.3 (090)	1, 2, 3, 4, 6, 8, 10, 12, 16	L-02	3mΩ max.(initial) 10mΩ max.(after durability tests)	100µA max.	100MΩ min	49.0kPa min. (initial) 29.4kPa min. (after durability tests)	Housing / PBT Terminal / Brass, Heat-Resistant Copper Alloy Wire Seal / NBR

# Introduction はじめに

Safety, amenity, and functionality, measure the essential performance of an automobile and these predominately depend on in-vehicle electronic controls.

A variety of car electronic devices are systematically connected with each other using "automotive connectors", and the connectors for this purpose are required to be smaller, lighter, and provide direct connection and advanced performance.

At Sumitomo Wiring Systems, we are actively researching and developing components, including terminals and housings, with respect to the "total wiring system," using our experience as an all-round automotive wiring harness manufacturer. This is how we are able to achieve high reliability for our products.

In addition, we are searching for the optimum wiring system and layout, using as little space for wiring as is effectively possible. These are part of our activities to provide services that will further satisfy our customers, and we sincerely ask to be favored with your request for connectors made by Sumitomo Wiring Systems.

安全性、快適性、そして機能性と、自動車に求められる性能は、その制御の大半をエレクトロニクスが担っています。

この各種カーエレクトロニクス機器を、システムティックにつなぐコンポーネントとしての「自動車用コネクタ」には、軽量・コンパクト化、直結化、高機能化などの性能が求められます。

住友電装は、自動車用ワイヤーハーネス総合メーカーとしての実績と、「トータルワイヤリングシステム」の視点から、ターミナル、コネクタをはじめとした構成部品の研究・開発を積極的に進め、製品の高信頼化に努めています。

さらに限られた配線スペースを最大限に活かしたワイヤリングシステムと最適レイアウトを追究し、一層お客様にご満足いただけるサービスをご提供いたしますので、住友電装のコネクタをご用命賜りますようお願い申しあげます。

## General Notes 自動車用コネクタカタログの見方について

- All length and area units in this catalog shall marked millimeter (mm) and square millimeter (mm<sup>2</sup>).
- This catalog focuses on series of terminals, housings, and does not include terminals and housings not involved in these series. Similarly, some other series and custom-made parts are not included. Please contact our sales staff for details.
- We have also prepared a separate "Automotive Wire, Convoluted Tube" catalog, made by Sumitomo Wiring Systems, and suitable for the connectors. This catalog can be obtained from our sales staff.
- 本カタログで使用する長さの単位はすべてmm(ミリメートル)で、面積の単位はすべてmm<sup>2</sup>(平方ミリメートル)です。
- 本カタログは、シリーズのターミナル、コネクタを中心に編集しています。シリーズに含まれないターミナル、コネクタや、一部シリーズ、カスタム開発部品は掲載しておりませんので、詳細は弊社営業担当にお問い合わせください。
- コネクタに最適な住友電装の「自動車用電線・コルゲートチューブ」は別途カタログがございますので弊社営業担当にご請求ください。

## Digital catalog 電子カタログ

A digital connector catalog is available on the Sumitomo Wiring Systems home page.  
Digital catalogue has connectors which are not on this catalogue.

住友電装ホームページに「コネクタ電子カタログ」を掲載中です。  
電子カタログには本カタログに掲載されていないコネクタも掲載しております。

**URL:** <http://www.sws.co.jp>

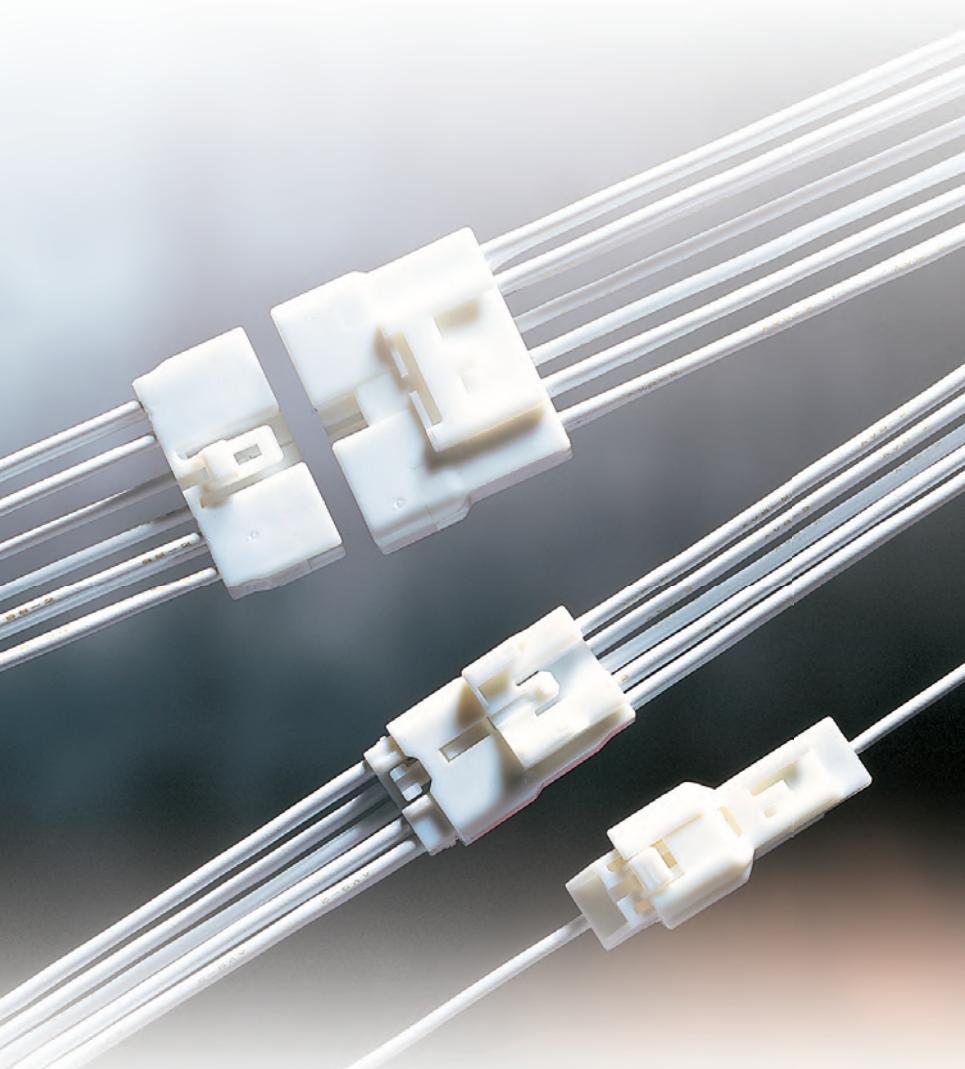
\* Product specifications may be subject to change without notice.

Before using the product, please obtain a "customer drawing" "Specifications" "Instruction Manuals" from our sales staff.

※製品の仕様は、予告なく変更することがあります。

製品ご使用の際は、弊社営業担当に「お客様用図面」「仕様書」「取扱説明書」をご請求ください。

# TS SERIES



## Features

The TS connector series has a mechanism of terminal position assurance. This series consists of 0.64mm, 1.5mm, 2.3mm, 4.8mm and 8.0mm types classified according to terminal size, covering an extensive array of applications from signal to power circuits.

- The connector mechanism only allows the retainer to be set when the terminal is completely inserted.
- Retainers are pre-mounted on connector housings, and are structured to enable setting by the same simple operation regardless of the number of ways, improving operability.
- These connectors can be directly secured to a support on the car body.
- PCB models are also available for connection to printed circuit boards.
- RoHS/ELV Compliant

## 特 長

TSシリーズは、挿入不足のターミナルを検知する機構を備えたコネクタシリーズです。ターミナルサイズにより0.64mm・1.5mm・2.3mm・4.8mm・8.0mmで構成されており、信号回路からパワー回路まで幅広くご利用いただけます。

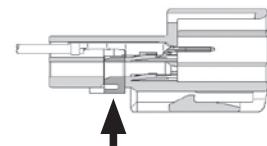
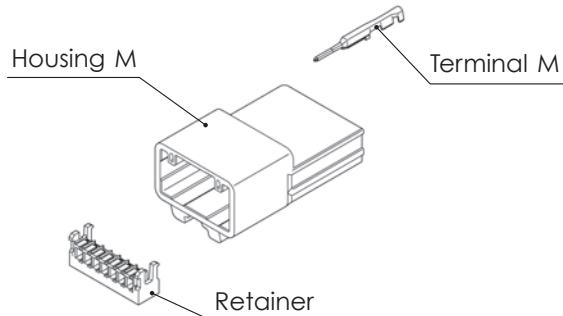
- ターミナルが半挿入の状態では、リテナーが装着できない機構になっています。
- リテナーはコネクタハウジングに予め組み付けられており、また極数に関係なく簡単な同一作業でセットすることができる構造になっているので、作業性が向上します。
- コネクタは、ボディ側のブラケットに直接固定することができます。
- プリント基板との接続に適したPCBタイプも設定いたしました。
- RoHS/ELV対応

# TS SERIES for STANDARD

## 0.64mm (025)

A-02

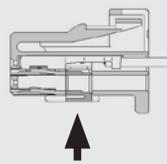
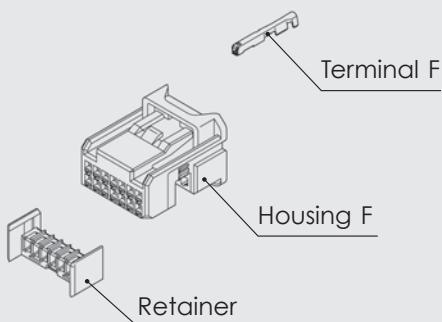
Structure／構造



**Retainer sliding direction**

リテーナを押込むことにより、端子の半插入状態を検知できます。

**Connector M**



**Retainer sliding direction**

リテーナを押込むことにより、端子の半插入状態を検知できます。

**Connector F**

**0.64mm (025)**

**Terminal** (UNIT : mm)

Au

**(S)**

Cable size (mm <sup>2</sup> ) 適用電線サイズ	0.13
Material 材質	Brass 黄銅
Surface treatment 表面処理	Tin-plated Snメッキ

**M (8230-4878)**

**F (8240-0182)**

Cable size (mm <sup>2</sup> ) 適用電線サイズ	0.13
Material 材質	Heat-resistant copper alloy
Surface treatment 表面処理	Tin-plated Snメッキ

**(S)**

Cable size (mm <sup>2</sup> ) 適用電線サイズ	0.13
Material 材質	Brass 黄銅
Surface treatment 表面処理	Gold-plated Auメッキ

**M (8230-5136)**

**F (8240-0338)**

Cable size (mm <sup>2</sup> ) 適用電線サイズ	0.13
Material 材質	Heat-resistant copper alloy
Surface treatment 表面処理	Gold-plated Auメッキ

**(M)**

Cable size (mm <sup>2</sup> ) 適用電線サイズ	0.22~0.35
Material 材質	Brass 黄銅
Surface treatment 表面処理	Tin-plated Snメッキ

**M (8100-3622)**

**F (8100-3624)**

Cable size (mm <sup>2</sup> ) 適用電線サイズ	0.22~0.35
Material 材質	Heat-resistant copper alloy
Surface treatment 表面処理	Tin-plated Snメッキ

**(M)**

Cable size (mm <sup>2</sup> ) 適用電線サイズ	0.22~0.35
Material 材質	Brass 黄銅
Surface treatment 表面処理	Gold-plated Auメッキ

**M (8100-3626)**

**F (8100-3628)**

Cable size (mm <sup>2</sup> ) 適用電線サイズ	0.22~0.35
Material 材質	Heat-resistant copper alloy
Surface treatment 表面処理	Gold-plated Auメッキ

**(L)**

Cable size (mm <sup>2</sup> ) 適用電線サイズ	0.3~0.5
Material 材質	Brass 黄銅
Surface treatment 表面処理	Tin-plated Snメッキ

**M (8100-3623)**

**F (8100-3625)**

Cable size (mm <sup>2</sup> ) 適用電線サイズ	0.3~0.5
Material 材質	Heat-resistant copper alloy
Surface treatment 表面処理	Tin-plated Snメッキ

**(L)**

Cable size (mm <sup>2</sup> ) 適用電線サイズ	0.3~0.5
Material 材質	Brass 黄銅
Surface treatment 表面処理	Gold-plated Auメッキ

**M (8100-3627)**

**F (8100-3629)**

Cable size (mm <sup>2</sup> ) 適用電線サイズ	0.3~0.5
Material 材質	Heat-resistant copper alloy
Surface treatment 表面処理	Gold-plated Auメッキ

# 0.64mm (025)

A-04

## Housing (UNIT : mm)

Ref: Terminal part No.

ターミナル参照頁

A-02

Material

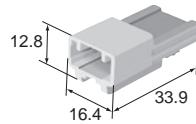
材質

PBT

## 5way

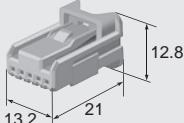
Color  
色相

Natural  
自然色



M (6098-3802)

F (6098-3810)



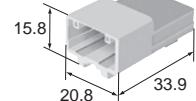
Color  
色相

Natural  
自然色

## 14way

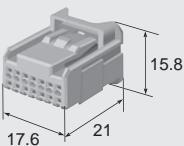
Color  
色相

Natural  
自然色



M (6098-3877)

F (6098-3917)



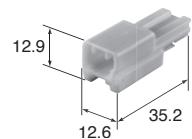
Color  
色相

Natural  
自然色

## 2way

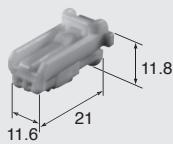
Color  
色相

Natural  
自然色



M (6098-6653)

F (6098-6662)



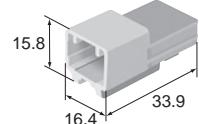
Color  
色相

Natural  
自然色

## 10way

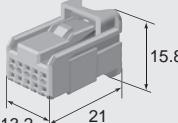
Color  
色相

Natural  
自然色



M (6098-3869)

F (6098-3909)

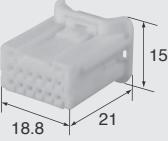


Color  
色相

Natural  
自然色

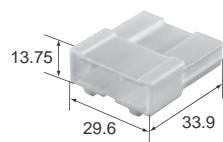
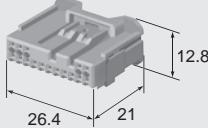
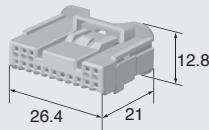
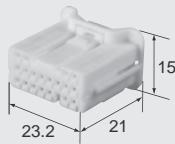
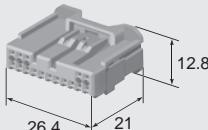
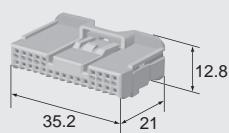
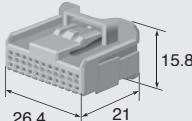
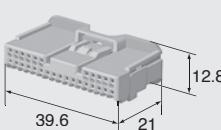
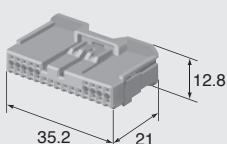
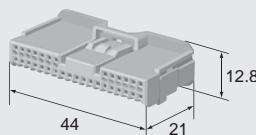
## 14way

F (6098-7241)



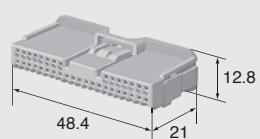
Color  
色相

Natural  
自然色

**16way**Color  
色相Natural  
自然色**16way****F (6098-6688)**Color  
色相Natural  
自然色**M (6098-7336)**Color  
色相Natural  
自然色**F (6098-4008)**Natural  
自然色**19way****F (6098-7231)**Color  
色相Natural  
自然色**16way**Color  
色相Natural  
自然色**F (6098-6694)**Color  
色相Natural  
自然色**24way****F (6098-4010)**Color  
色相Natural  
自然色**22way****F (6098-3925)**Color  
色相Natural  
自然色**28way****F (6098-4756)**Color  
色相Natural  
自然色**24way****F (6098-6682)**Color  
色相Natural  
自然色**32way****F (6098-4013)**Color  
色相Natural  
自然色

**36way**

**F (6098-4740)**

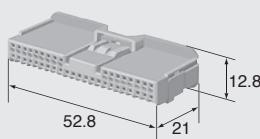


Color  
色 相

Natural  
自然色

**40way**

**F (6098-4015)**

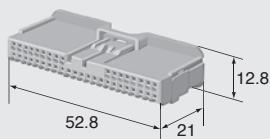


Color  
色 相

Natural  
自然色

**40way**

**F (6098-4831)**



Color  
色 相

Natural  
自然色

**A-06**

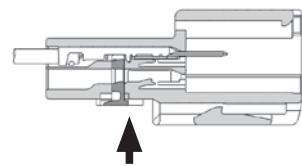
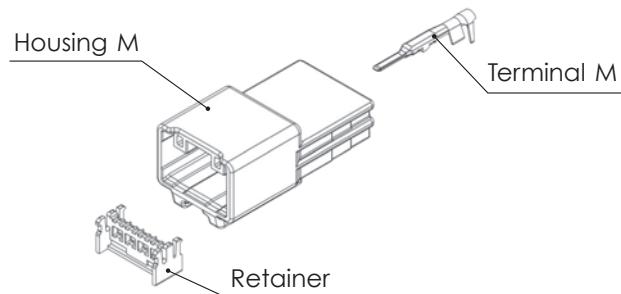
# TS SERIES for STANDARD

## 1.5mm(060)

A-07

Structure／構造

TS SERIES

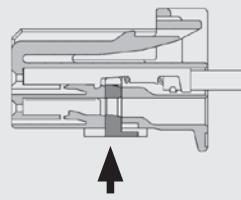
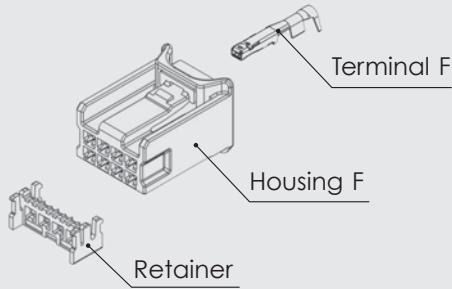


**Retainer sliding direction**

リテーナを押込むことにより、  
端子の半插入状態を検知できます。

**Connector M**

**Connector F**



**Retainer sliding direction**

リテーナを押込むことにより、  
端子の半插入状態を検知できます。

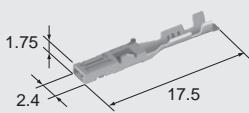
# 1.5mm (060)

A-08

## Terminal (UNIT : mm)

(3S)

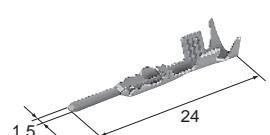
F (8240-0339)



Cable size (mm <sup>2</sup> ) 適用電線サイズ	0.13
Material 材質	Heat-resistant copper alloy
Surface treatment 表面処理	Tin-plated Snメッキ

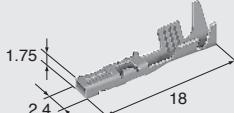
(S)

F (8240-0215)



M (8230-4925)

F (8240-0215)



Cable size (mm <sup>2</sup> ) 適用電線サイズ	0.3~0.5
Material 材質	Heat-resistant copper alloy
Surface treatment 表面処理	Tin-plated Snメッキ

(SS)

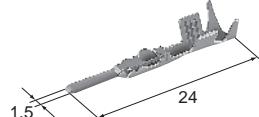
F (8240-0279)



Cable size (mm <sup>2</sup> ) 適用電線サイズ	0.22~0.35
Material 材質	Heat-resistant copper alloy
Surface treatment 表面処理	Tin-plated Snメッキ

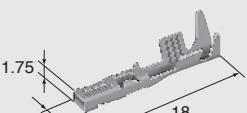
(M)

Cable size (mm <sup>2</sup> ) 適用電線サイズ	0.75~1.25
Material 材質	Brass 黄銅
Surface treatment 表面処理	Tin-plated Snメッキ



M (8230-4924)

F (8240-0213)



Cable size (mm <sup>2</sup> ) 適用電線サイズ	0.75~1.25
Material 材質	Heat-resistant copper alloy
Surface treatment 表面処理	Tin-plated Snメッキ

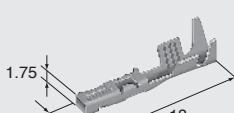
(L)

Cable size (mm <sup>2</sup> ) 適用電線サイズ	2.0
Material 材質	Heat-resistant copper alloy
Surface treatment 表面処理	Tin-plated Snメッキ



M (8230-4923)

F (8240-0214)



Cable size (mm <sup>2</sup> ) 適用電線サイズ	2.0
Material 材質	Heat-resistant copper alloy
Surface treatment 表面処理	Tin-plated Snメッキ

# 1.5mm (060)

A-09

TS SERIES

## Housing (UNIT : mm)

Ref: Terminal part No.  
ターミナル参照頁

A-08

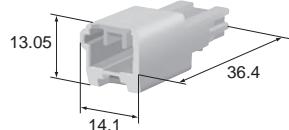
Material  
材質

PBT

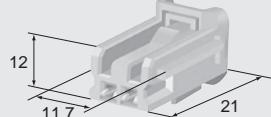
### 2way

Color  
色相

Natural  
自然色



M (6098-6050)



Color  
色相

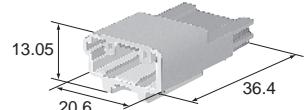
Natural  
自然色

F (6098-6053)

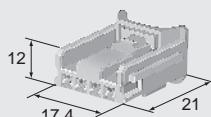
### 4way

Color  
色相

Natural  
自然色



M (6098-5668)



Color  
色相

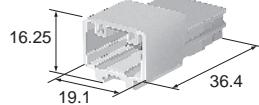
F (6098-5677)

Natural  
自然色

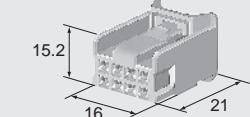
### 8way

Color  
色相

Natural  
自然色



M (6098-5686)



Color  
色相

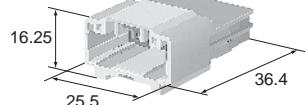
Natural  
自然色

F (6098-5695)

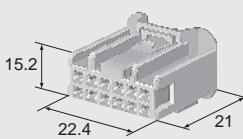
### 12way

Color  
色相

Natural  
自然色



M (6098-5704)



Color  
色相

F (6098-5713)

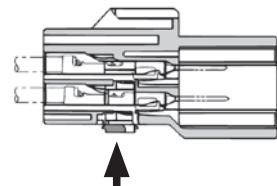
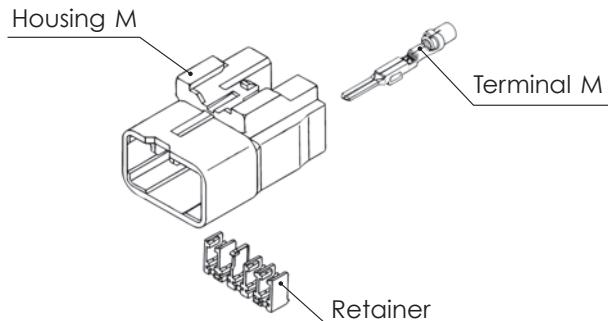
Natural  
自然色

# TS SERIES for STANDARD

## 2.3mm(090)

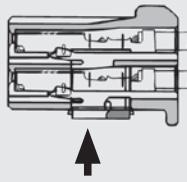
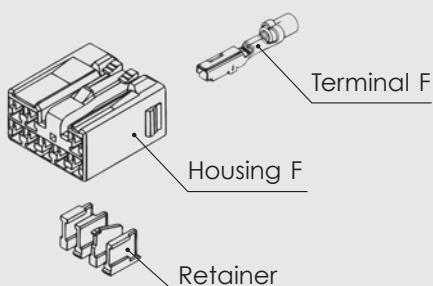
A-10

Structure／構造



リテーナを押込むことにより、端子の半挿入状態を検知できます。

**Connector M**



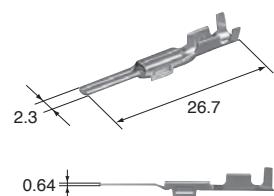
リテーナを押込むことにより、端子の半挿入状態を検知できます。

**Connector F**

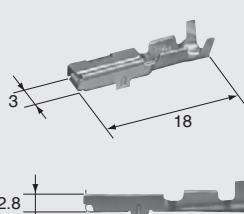
**2.3mm(090)**

**(SS)**

Cable size (mm <sup>2</sup> ) 適用電線サイズ	0.22~0.35
Material 材質	Brass 黄銅
Surface treatment 表面処理	Tin-plated Snメッキ



**M (8230-4742)**



Cable size (mm <sup>2</sup> ) 適用電線サイズ	0.22~0.35
Material 材質	Brass 黄銅
Surface treatment 表面処理	Tin-plated Snメッキ

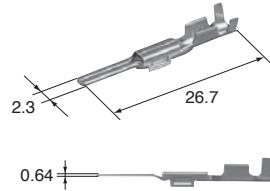
**F (8240-0029)**

**Terminal** (UNIT: mm)

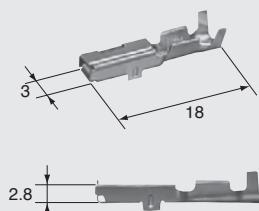
Au

(S)

Cable size (mm <sup>2</sup> ) 適用電線サイズ	0.3~0.5
Material 材質	Brass 黄銅
Surface treatment 表面処理	Tin-plated Snメッキ



M (8230-4492)

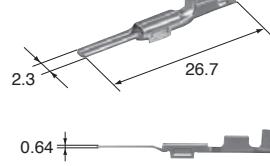


F (8240-4882)

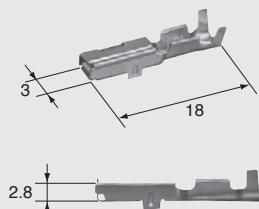
Cable size (mm <sup>2</sup> ) 適用電線サイズ	0.3~0.5
Material 材質	Brass 黄銅
Surface treatment 表面処理	Tin-plated Snメッキ

(M)

Cable size (mm <sup>2</sup> ) 適用電線サイズ	0.5~1.25
Material 材質	Brass 黄銅
Surface treatment 表面処理	Tin-plated Snメッキ



M (8230-4502)

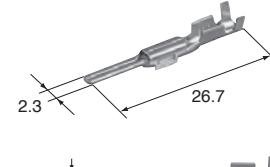


F (8240-4892)

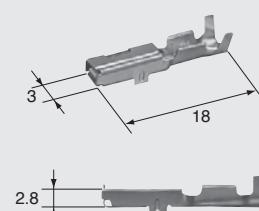
Cable size (mm <sup>2</sup> ) 適用電線サイズ	0.5~1.25
Material 材質	Brass 黄銅
Surface treatment 表面処理	Tin-plated Snメッキ

(L)

Cable size (mm <sup>2</sup> ) 適用電線サイズ	2.0
Material 材質	Brass 黄銅
Surface treatment 表面処理	Tin-plated Snメッキ



M (8230-4512)

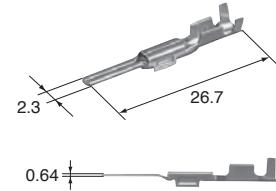


F (8240-4942)

Cable size (mm <sup>2</sup> ) 適用電線サイズ	2.0
Material 材質	Heat-resistant copper alloy
Surface treatment 表面処理	Tin-plated Snメッキ

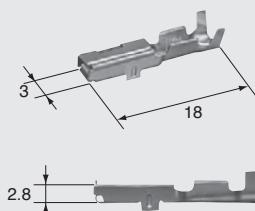
(S)

Cable size (mm <sup>2</sup> ) 適用電線サイズ	0.3~0.5
Material 材質	Brass 黄銅
Surface treatment 表面処理	Gold-plated Auメッキ



F (8240-4882)

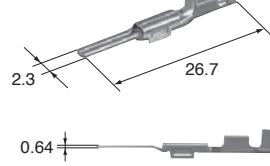
M (8100-1341)



Cable size (mm <sup>2</sup> ) 適用電線サイズ	0.3~0.5
Material 材質	Brass 黄銅
Surface treatment 表面処理	Gold-plated Auメッキ

(M)

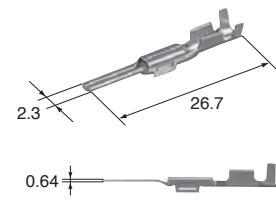
Cable size (mm <sup>2</sup> ) 適用電線サイズ	0.5~1.25
Material 材質	Brass 黄銅
Surface treatment 表面処理	Gold-plated Auメッキ



Au

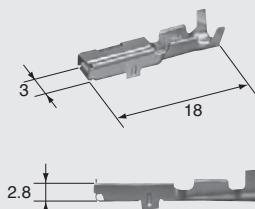
(M)

Cable size (mm <sup>2</sup> ) 適用電線サイズ	0.5~1.25
Material 材質	Brass 黄銅
Surface treatment 表面処理	Gold-plated Auメッキ



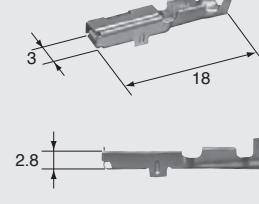
F (8100-1347)

M (8100-1342)



Cable size (mm <sup>2</sup> ) 適用電線サイズ	0.5~1.25
Material 材質	Brass 黄銅
Surface treatment 表面処理	Gold-plated Auメッキ

M (8230-4512)



F (8240-4942)

Cable size (mm <sup>2</sup> ) 適用電線サイズ	2.0
Material 材質	Heat-resistant copper alloy
Surface treatment 表面処理	Tin-plated Snメッキ

## 2.3mm (090)

A-12

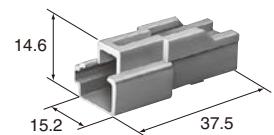
### 2way

Material  
材質

PA6T

Color  
色相

Natural  
自然色



**M (6520-0549)**

**F (6520-0550)**

## Housing (UNIT : mm)

Ref: Terminal part No.  
ターミナル参照頁

A-10

### 6way

Material  
材質

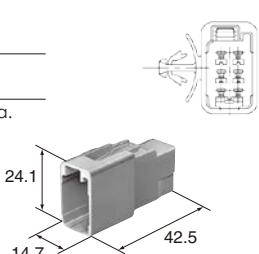
PBT

Color  
色相

Natural  
自然色

Note  
備考

With clamp for 7mm dia.  
φ7用クランプ付



**M (6240-1107)**

Material  
材質

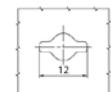
PBT

Color  
色相

Natural  
自然色

Note  
備考

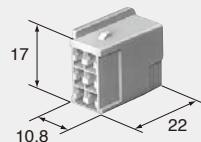
With body fastening clamp.  
回り止めクランプ付



**M (6249-1243)**



**F (6240-5118)**



Material  
材質

PBT

Color  
色相

Natural  
自然色

### 6way

**M (6240-1120)**



Material  
材質

PBT

Color  
色相

Natural  
自然色

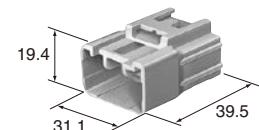
### 9way

Material  
材質

PBT

Color  
色相

Natural  
自然色



### 8way

**M (6240-1077)**



Material  
材質

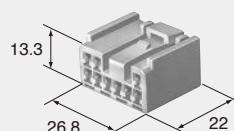
PBT

Color  
色相

Natural  
自然色

**M (6249-1229)**

**F (6248-5270)**



Material  
材質

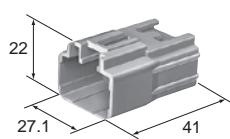
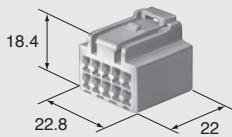
PBT

Color  
色相

Natural  
自然色

**10way**

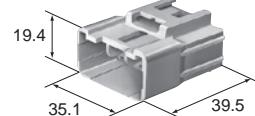
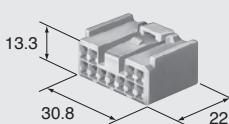
<b>Material</b> 材質	PBT
<b>Color</b> 色相	Natural 自然色

**M (6249-1235)****F (6248-5276)**

<b>Material</b> 材質	PBT
<b>Color</b> 色相	Natural 自然色

**11way**

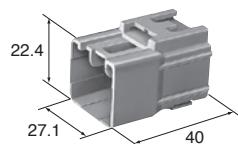
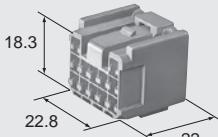
<b>Material</b> 材質	PBT
<b>Color</b> 色相	Natural 自然色

**M (6249-1234)****F (6248-5275)**

<b>Material</b> 材質	PBT
<b>Color</b> 色相	Natural 自然色

**12way**

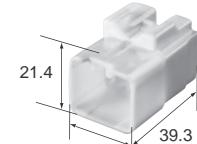
<b>Material</b> 材質	PBT
<b>Color</b> 色相	Natural 自然色

**M (6520-1009)****F (6520-1004)**

<b>Material</b> 材質	PBT
<b>Color</b> 色相	Natural 自然色

**13way**

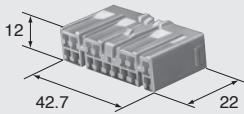
<b>Material</b> 材質	PBT
<b>Color</b> 色相	Natural 自然色

**M (6240-1122)****F (6240-5175)**

<b>Material</b> 材質	PBT
<b>Color</b> 色相	Natural 自然色

**16way**

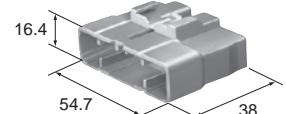
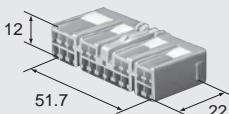
<b>Material</b> 材質	PBT
<b>Color</b> 色相	Natural 自然色

**M (6240-1158)****F (6240-5088)**

<b>Material</b> 材質	PBT
<b>Color</b> 色相	Natural 自然色

**20way**

<b>Material</b> 材質	PBT
<b>Color</b> 色相	Natural 自然色

**M (6240-1033)****F (6240-5035)**

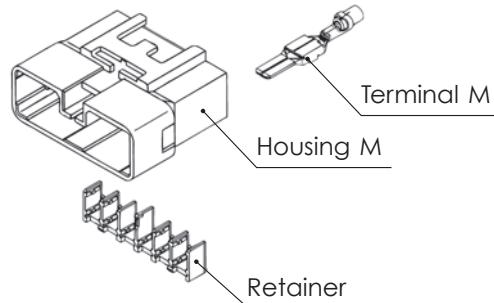
<b>Material</b> 材質	PBT
<b>Color</b> 色相	Natural 自然色

# TS SERIES for STANDARD

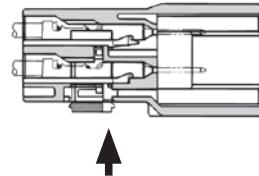
## 4.8mm(187)

A-14

Structure／構造

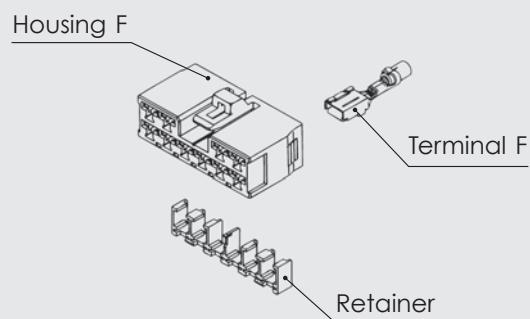


Connector M

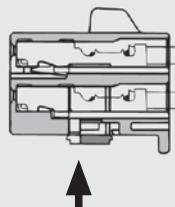


Retainer sliding direction

リテーナを押込むことにより、  
端子の半挿入状態を検知できます。



Connector F



Retainer sliding direction

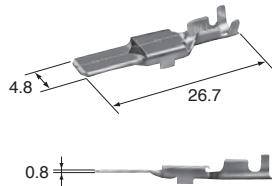
リテーナを押込むことにより、  
端子の半挿入状態を検知できます。

4.8mm (187)

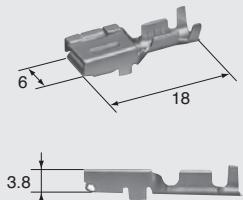
Terminal (UNIT : mm)

(S)

Cable size (mm <sup>2</sup> ) 適用電線サイズ	0.3~0.5
Material 材質	Brass 黄銅
Surface treatment 表面処理	Tin-plated Snメッキ

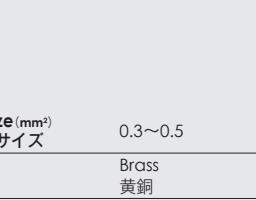


M (8230-4522)



Cable size (mm <sup>2</sup> ) 適用電線サイズ	0.3~0.5
Material 材質	Brass 黄銅
Surface treatment 表面処理	Tin-plated Snメッキ

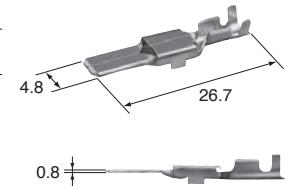
F (8240-4912)



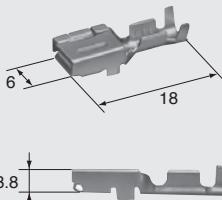
Cable size (mm <sup>2</sup> ) 適用電線サイズ	0.3~0.5
Material 材質	Brass 黄銅
Surface treatment 表面処理	Tin-plated Snメッキ

(M)

Cable size (mm <sup>2</sup> ) 適用電線サイズ	0.5~1.25
Material 材質	Brass 黄銅
Surface treatment 表面処理	Tin-plated Snメッキ



M (8230-4532)

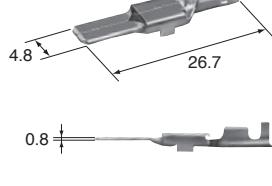


Cable size (mm <sup>2</sup> ) 適用電線サイズ	0.5~1.25
Material 材質	Brass 黄銅
Surface treatment 表面処理	Tin-plated Snメッキ

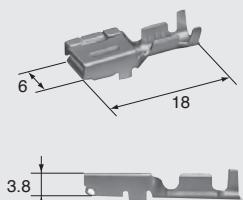
F (8240-4922)

(L)

Cable size (mm <sup>2</sup> ) 適用電線サイズ	2.0~3.0
Material 材質	Brass 黄銅
Surface treatment 表面処理	Tin-plated Snメッキ



M (8230-4542)



Cable size (mm <sup>2</sup> ) 適用電線サイズ	2.0~3.0
Material 材質	Brass 黄銅
Surface treatment 表面処理	Tin-plated Snメッキ

F (8240-4932)



(L)

Cable size (mm <sup>2</sup> ) 適用電線サイズ	2.0~3.0
Material 材質	Heat-resistant copper alloy
Surface treatment 表面処理	Tin-plated Snメッキ

F (8100-1555)

## 4.8mm (187)

## Housing (UNIT : mm)

Ref: Terminal part No.  
ターミナル参照頁

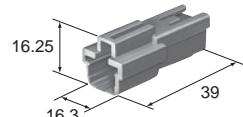
A-14

Material  
材質

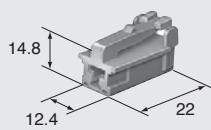
PBT

### 1way

Color 色相	Natural 自然色
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M (6098-0822)



Color 色相	Natural 自然色
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F (6098-0824)

## 2way

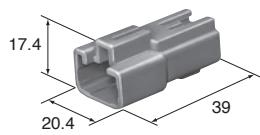
Color  
色相

Natural  
自然色

## 2way

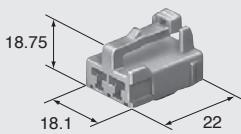
Color  
色相

Natural  
自然色



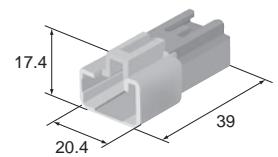
**M (6098-0323)**

**F (6098-0325)**



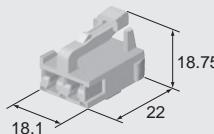
Color  
色相

Natural  
自然色



**M (6098-0469)**

**F (6098-0471)**



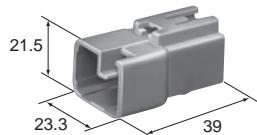
Color  
色相

Natural  
自然色

## 3way

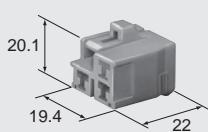
Color  
色相

Natural  
自然色



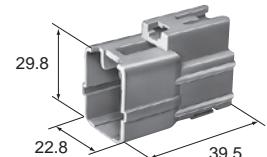
**M (6098-0149)**

**F (6098-0151)**



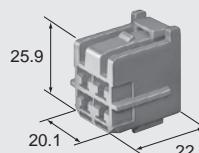
Color  
色相

Natural  
自然色



**M (6098-1851)**

**F (6098-1489)**



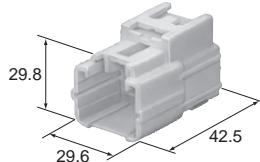
Color  
色相

Natural  
自然色

## 6way

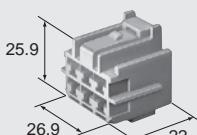
Color  
色相

Natural  
自然色



**M (6098-2211)**

**F (6098-1716)**

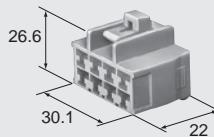


Color  
色相

Natural  
自然色

## 8way

**F (6098-0518)**



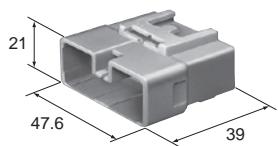
Color  
色相

Natural  
自然色

## 10way

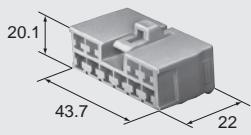
Color  
色相

Natural  
自然色



M (6098-0154)

F (6098-0156)



Color  
色相

Natural  
自然色

A-17

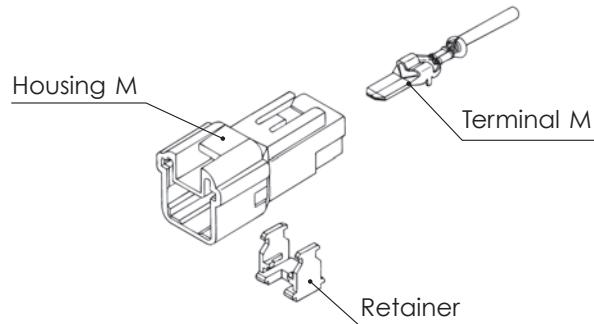
TS SERIES

# TS SERIES for STANDARD

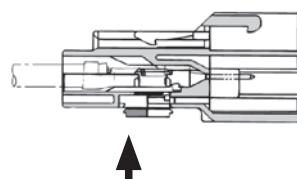
## 8.0mm(312)

A-18

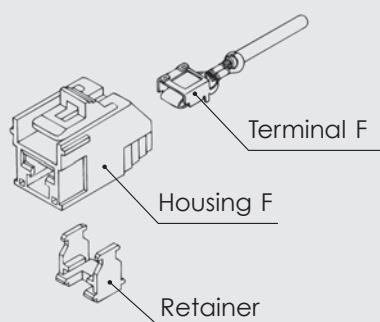
Structure／構造



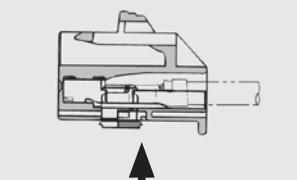
**Connector M**



リテーナを押込むことにより、端子の半挿入状態を検知できます。



**Connector F**

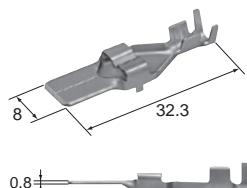


リテーナを押込むことにより、端子の半挿入状態を検知できます。

**8.0mm(312)**

**(S)**

Cable size (mm <sup>2</sup> ) 適用電線サイズ	0.5～1.25
Material 材質	Brass 黄銅
Surface treatment 表面処理	Tin-plated Snメッキ

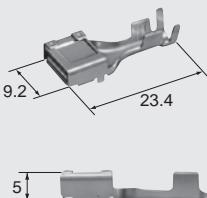


**M (8100-0520)**



Cable size (mm <sup>2</sup> ) 適用電線サイズ	0.5～1.25
Material 材質	Brass 黄銅
Surface treatment 表面処理	Tin-plated Snメッキ

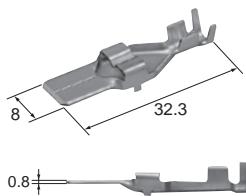
**F (8100-0707)**



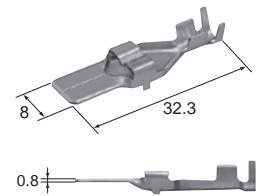
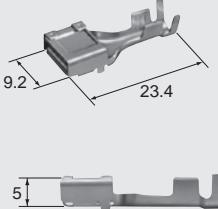
**Terminal** (UNIT: mm)

**(M)**

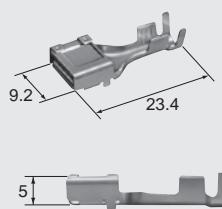
<b>Cable size (mm<sup>2</sup>)</b> 適用電線サイズ	2.0~3.0
<b>Material</b> 材質	Brass 黄銅
<b>Surface treatment</b> 表面処理	Tin-plated Snメッキ

**(L)**

<b>Cable size (mm<sup>2</sup>)</b> 適用電線サイズ	5.0~8.0
<b>Material</b> 材質	Brass 黄銅
<b>Surface treatment</b> 表面処理	Tin-plated Snメッキ

**M (8100-0521)****F (8100-2493)**

<b>Cable size (mm<sup>2</sup>)</b> 適用電線サイズ	2.0~3.0
<b>Material</b> 材質	Heat-resistant copper alloy
<b>Surface treatment</b> 表面処理	Tin-plated Snメッキ

**M (8100-0522)****F (8100-1553)**

<b>Cable size (mm<sup>2</sup>)</b> 適用電線サイズ	5.0~8.0
<b>Material</b> 材質	Heat-resistant copper alloy
<b>Surface treatment</b> 表面処理	Tin-plated Snメッキ

**8.0mm (312)****Housing (UNIT : mm)**

Ref: Terminal part No.  
ターミナル参照頁

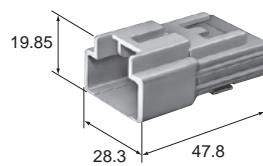
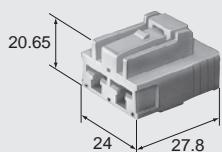
A-18

**Material**  
材質

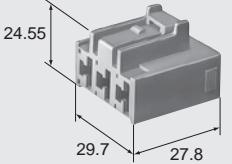
PBT

**2way**

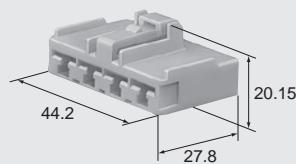
<b>Color</b> 色相	Natural 自然色
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**M (6098-1278)****F (6098-1104)**

<b>Color</b> 色相	Natural 自然色
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**3way****F (6520-1466)**

<b>Color</b> 色相	Natural 自然色
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**4way****F (6098-2137)**

<b>Color</b> 色相	Natural 自然色
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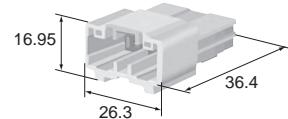
# TS SERIES

## for HYBRID

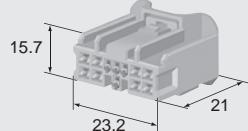
### 12way(4+8)

Color  
色相

Natural  
自然色



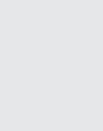
M (6098-6055)



Color  
色相

Natural  
自然色

F (6098-6083)



Color  
色相

Natural  
自然色

**0.64mm, 1.5mm  
(025, 060)**

### Housing (UNIT : mm)

Ref: Terminal part No.  
ターミナル参照頁

[0.64mm] A-02  
[1.5mm] A-08

Material

材質

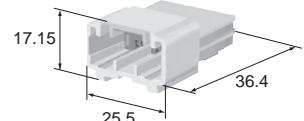
PBT

No. of way/ ( ) corresponds to 0.64mm, 1.5mm, in order from left to right.  
極数／( )内表示：左から0.64mm 極数、1.5mm 極数

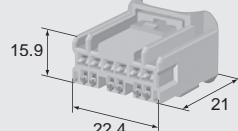
### 12way(6+6)

Color  
色相

Natural  
自然色



M (6098-6104)



Color  
色相

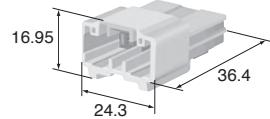
Natural  
自然色

F (6098-6111)

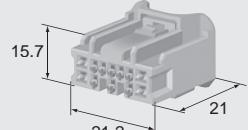
### 12way(8+4)

Color  
色相

Natural  
自然色



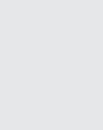
M (6098-6090)



Color  
色相

Natural  
自然色

F (6098-6097)



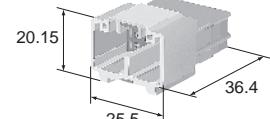
Color  
色相

Natural  
自然色

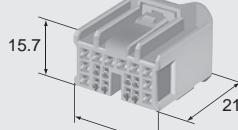
### 18way(8+10)

Color  
色相

Natural  
自然色



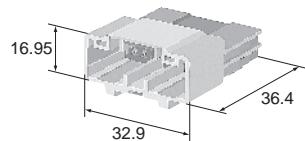
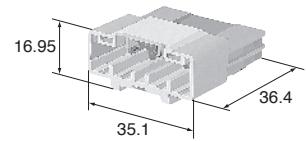
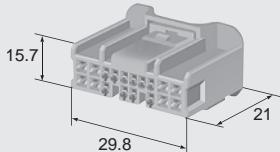
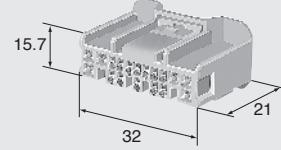
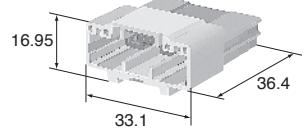
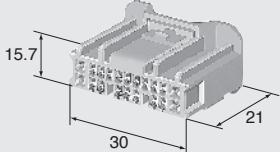
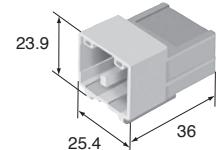
M (6098-5650)



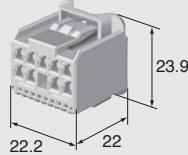
Color  
色相

Natural  
自然色

F (6098-5659)

**18way (10+8)**Color  
色相Natural  
自然色**18way (12+6)**Color  
色相Natural  
自然色**M (6098-5594)**Color  
色相Natural  
自然色**F (6098-5604)****M (6098-5631)****F (6098-5641)**Color  
色相Natural  
自然色**20way (16+4)**Color  
色相Natural  
自然色**M (6098-5613)**Color  
色相Natural  
自然色**F (6098-5622)****17way (8+9)**Color  
色相Natural  
自然色**0.64mm, 2.3mm  
(025, 090)****Housing (UNIT : mm)**Ref: Terminal part No.  
ターミナル参照頁[0.64mm] A-02  
[2.3mm] A-10Material  
材質

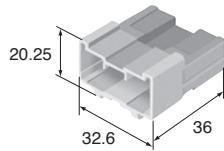
PBT

No. of way / ( ) corresponds to 0.64mm, 2.3mm, in order from left to right.  
極数 / ( ) 内表示: 左から 0.64mm 極数、2.3mm 極数**M (6098-3893)**Color  
色相Natural  
自然色**F (6098-3933)**

## 18way(10+8)

Color  
色相

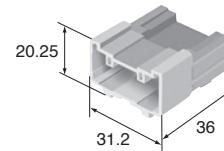
Natural  
自然色



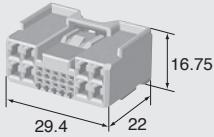
## 20way(16+4)

Color  
色相

Natural  
自然色



**M (6098-3901)**

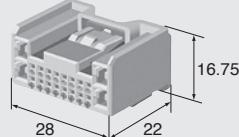


Color  
色相

Natural  
自然色

**F (6098-3941)**

**M (6098-3818)**



Color  
色相

Natural  
自然色

**F (6098-3826)**

**0.64mm, 4.8mm  
(025, 187)**

## Housing (UNIT : mm)

Ref: Terminal part No.  
ターミナル参照頁

[0.64mm] A-02  
[4.8mm] A-14

Material  
材質

PBT

No. of way / ( ) corresponds to 0.64mm, 4.8mm, in order from left to right.  
極数 / ( ) 内表示: 左から0.64mm 極数、4.8mm 極数

**2.3mm, 4.8mm  
(090, 187)**

## Housing (UNIT : mm)

Ref: Terminal part No.  
ターミナル参照頁

[2.3mm] A-10  
[4.8mm] A-14

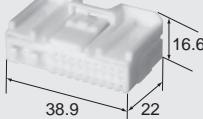
Material  
材質

PBT

No. of way / ( ) corresponds to 2.3mm, 4.8mm, in order from left to right.  
極数 / ( ) 内表示: 左から2.3mm 極数、4.8mm 極数

## 20way(18+2)

**F (6098-5903)**



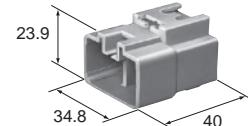
Color  
色相

Natural  
自然色

## 14way(12+2)

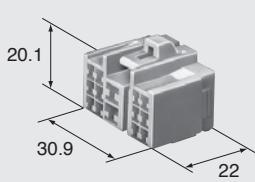
Color  
色相

Natural  
自然色



**M (6241-0261)**

**F (6245-0281)**



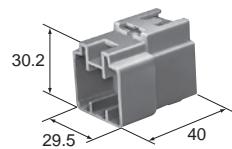
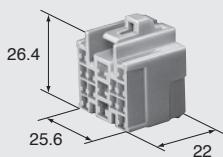
Color  
色相

Natural  
自然色

**15way (12+3)**

**Color**  
色相

Natural  
自然色

**M (6241-0241)**

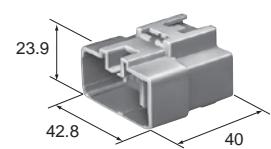
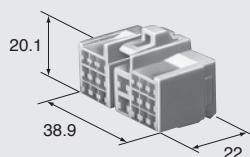
**Color**  
色相

Natural  
自然色

**20way (18+2)**

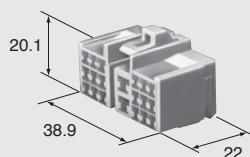
**Color**  
色相

Natural  
自然色

**F (6245-0261)**

**Color**  
色相

Natural  
自然色

**M (6241-0281)**

**Color**  
色相

Natural  
自然色

# TS SERIES

## for PCB

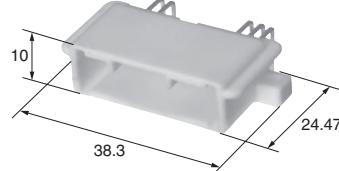
**0.64mm (025)**

**Housing (UNIT : mm)**

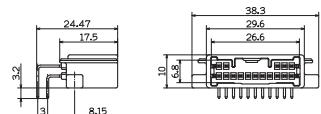
**16way**

**M (6098-6790)**

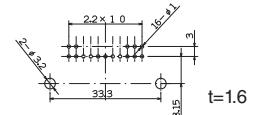
Connector F part No. Fコネクタ品番	6098-4008 (A-05)
Material 材質	PBT
Color 色相	Natural 自然色



●Detailed dimension  
寸法詳細



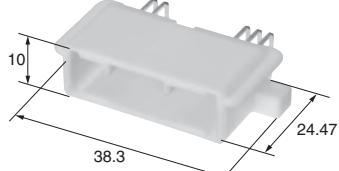
●Recommended demension of Circuit board  
基板推奨詳細



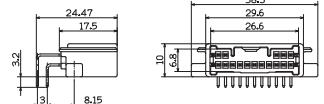
**16way**

**M (6098-6793)**

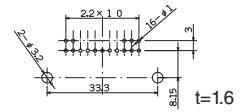
Connector F part No. Fコネクタ品番	6098-4008 (A-05)
Material 材質	SPS
Color 色相	Natural 自然色



●Detailed dimension  
寸法詳細



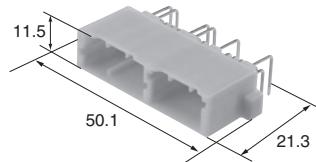
●Recommended demension of Circuit board  
基板推奨詳細



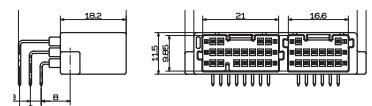
**33way**

**M (6098-7229)**

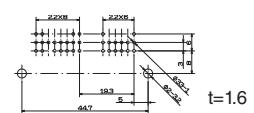
Connector F part No. Fコネクタ品番	6098-7231 (A-05) 6098-7241 (A-04)
Material 材質	SPS
Color 色相	Natural 自然色



●Detailed dimension  
寸法詳細



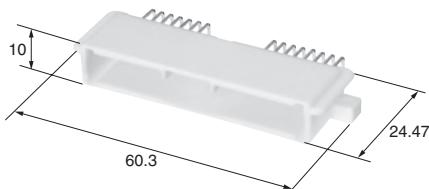
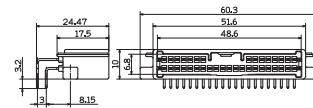
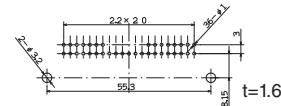
●Recommended demension of Circuit board  
基板推奨詳細



## 36way

M (6098-6796)

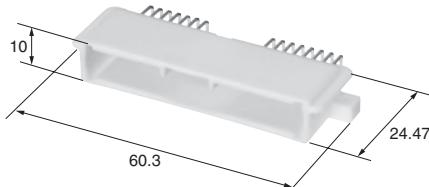
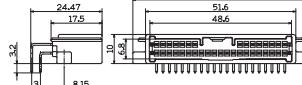
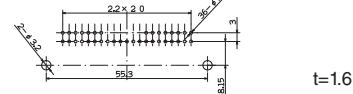
Connector F part No. Fコネクタ品番	6098-4740(A-06)
Material 材質	PBT
Color 色相	Natural 自然色

●Detailed dimension  
寸法詳細●Recommended demension of Circuit board  
基板推奨詳細

## 36way

M (6098-6798)

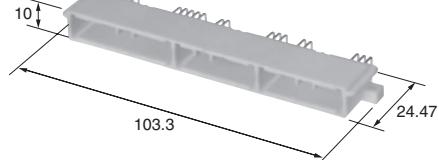
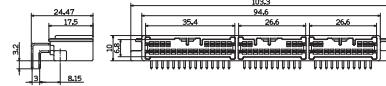
Connector F part No. Fコネクタ品番	6098-4740(A-06)
Material 材質	SPS
Color 色相	Natural 自然色

●Detailed dimension  
寸法詳細●Recommended demension of Circuit board  
基板推奨詳細

## 56way (16+16+24)

M (6098-6848)

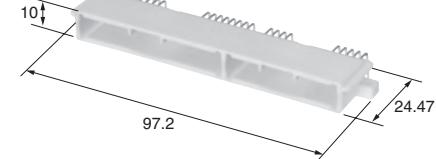
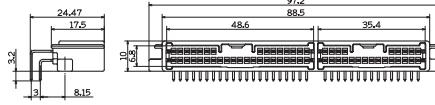
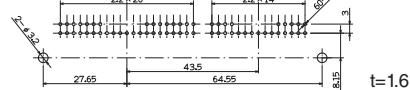
Connector F part No. Fコネクタ品番	6098-6688(A-05) 6098-6694(A-05) 6098-6682(A-05)
Material 材質	SPS
Color 色相	Natural 自然色

●Detailed dimension  
寸法詳細●Recommended demension of Circuit board  
基板推奨詳細

## 60way (36+24)

M (6098-6803)

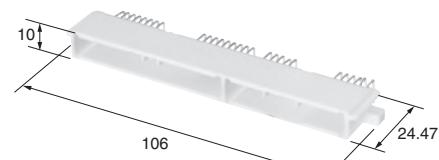
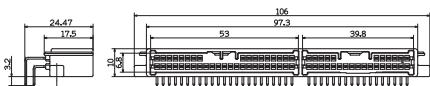
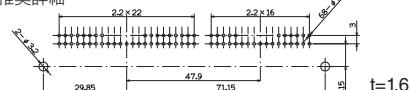
Connector F part No. Fコネクタ品番	6098-4010(A-05) 6098-4740(A-06)
Material 材質	SPS
Color 色相	Natural 自然色

●Detailed dimension  
寸法詳細●Recommended demension of Circuit board  
基板推奨詳細

## 68way (40+28)

M (6098-6805)

Connector F part No. Fコネクタ品番	6098-4756(A-05) 6098-4831(A-06)
Material 材質	PBT
Color 色相	Natural 自然色

●Detailed dimension  
寸法詳細●Recommended demension of Circuit board  
基板推奨詳細

## 68way (40+28)

M (6098-7102)

A-26

Connector F part No. 6098-4756 (A-05)

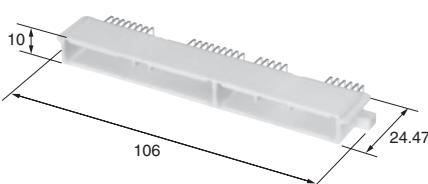
Fコネクタ品番 6098-4831 (A-06)

Material

材質

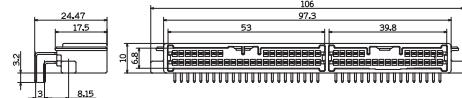
Color

色相



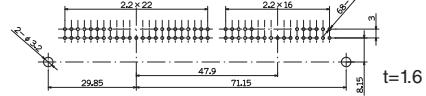
### ●Detailed dimension

寸法詳細



### ●Recommended demension of Circuit board

基板推奨詳細



## 68way (40+28)

M (6098-6810)

Connector F part No. 6098-4756 (A-05)

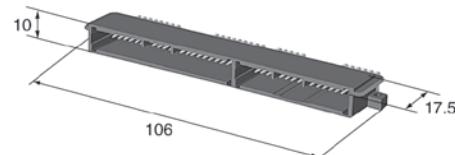
Fコネクタ品番 6098-4015 (A-06)

Material

材質

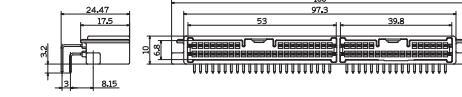
Color

色相



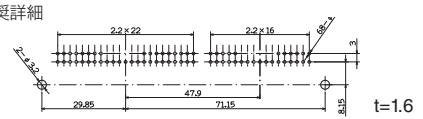
### ●Detailed dimension

寸法詳細



### ●Recommended demension of Circuit board

基板推奨詳細



## 0.64mm, 1.5mm (025, 060)

## Housing (UNIT : mm)

No. of way/ ( ) corresponds to 0.64mm, 1.5mm, in order from left to right.  
極数／( ) 内表示：左から0.64mm 極数、1.5mm 極数

## 20way (14+6)

M (6098-6869)

Connector F part No. 6098-6876 (A-●)

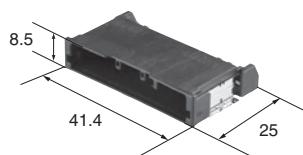
Fコネクタ品番 6098-6869 (A-●)

Material

材質

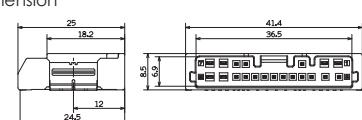
Color

色相



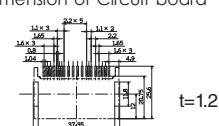
### ●Detailed dimension

寸法詳細

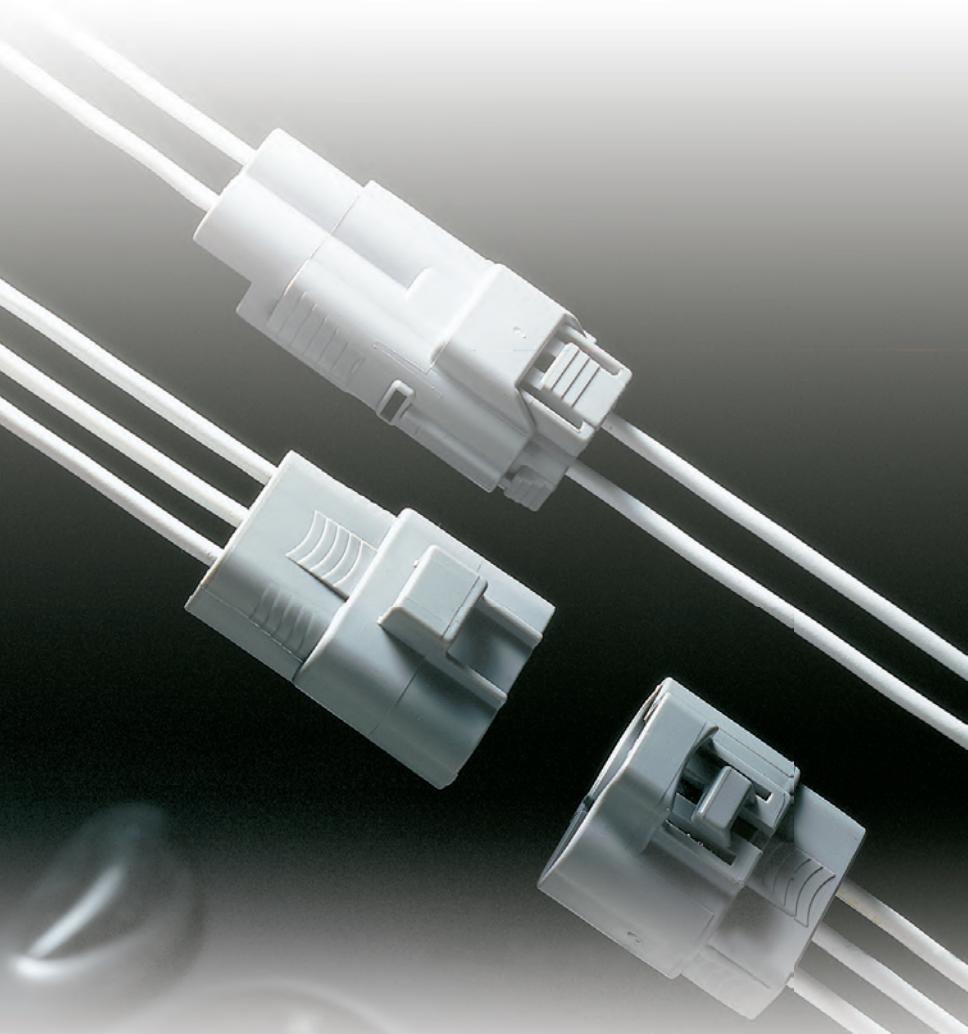


### ●Recommended demension of Circuit board

基板推奨詳細



# TS SEALED SERIES



## Features

The TS sealed connector series has a mechanism of terminal position assurance. This series consists of 0.64mm, 2.3mm, 4.8mm and 8.0mm types classified according to terminal size, covering an extensive array of applications from signal to power circuits.

- Retainers are pre-mounted on the connector housing, and are structured to enable setting by the same simple operation regardless of the number of ways, improving operability.
- These connectors can be directly secured to a bracket on the car body.
- RoHS/ELV Compliant

## 特 長

TS 防水シリーズは、挿入不足のターミナルを検知する機構を備えたコネクタシリーズです。ターミナルサイズにより 0.64mm・2.3mm・4.8mm・8.0mm で構成されており、信号回路からパワー回路まで幅広くご利用いただけます。

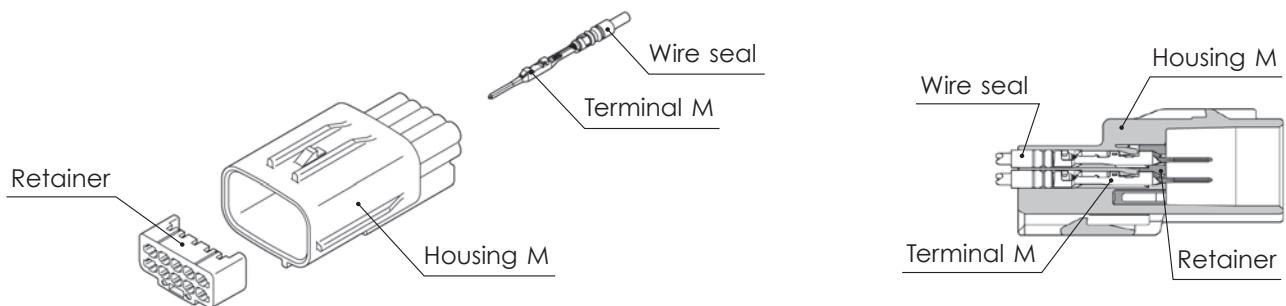
- リテーナは、コネクタハウジングに予め組み付けられており、また極数に関係なく簡単な同一作業でセットすることができる構造になっているので、作業性が向上します。
- コネクタは、ボディ側のブラケットに直接固定することができます。
- RoHS/ELV 対応

# TS SEALED SERIES for STANDARD

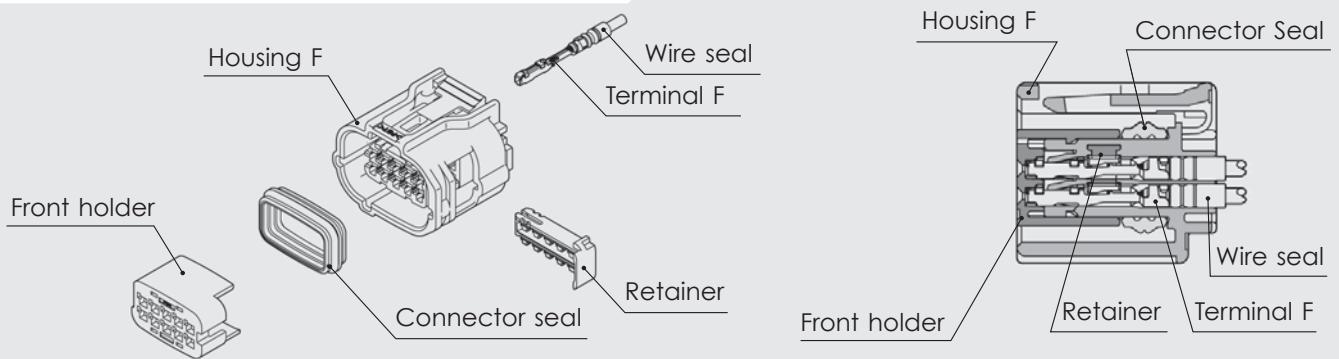
## 0.64mm (025)

Structure / 構造

B-02



**Connector M**

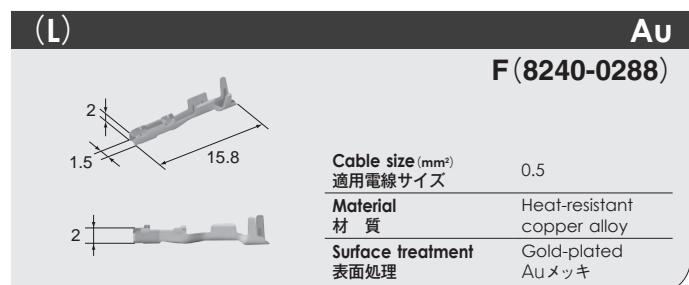
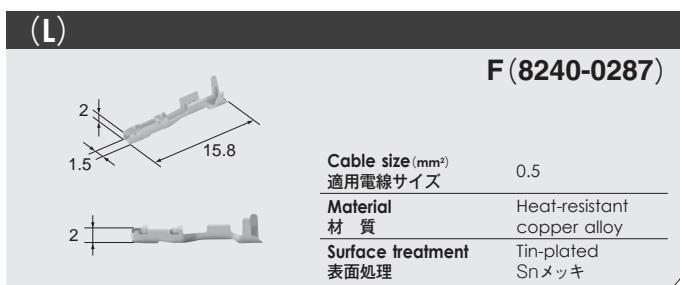
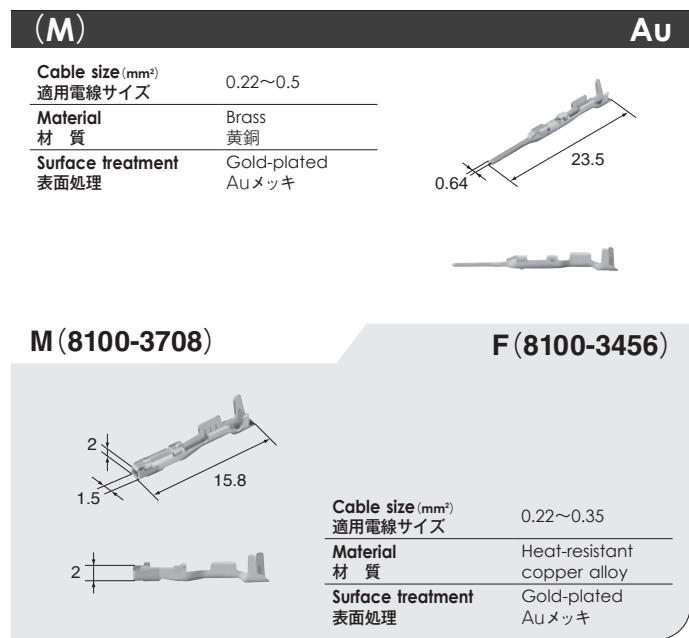
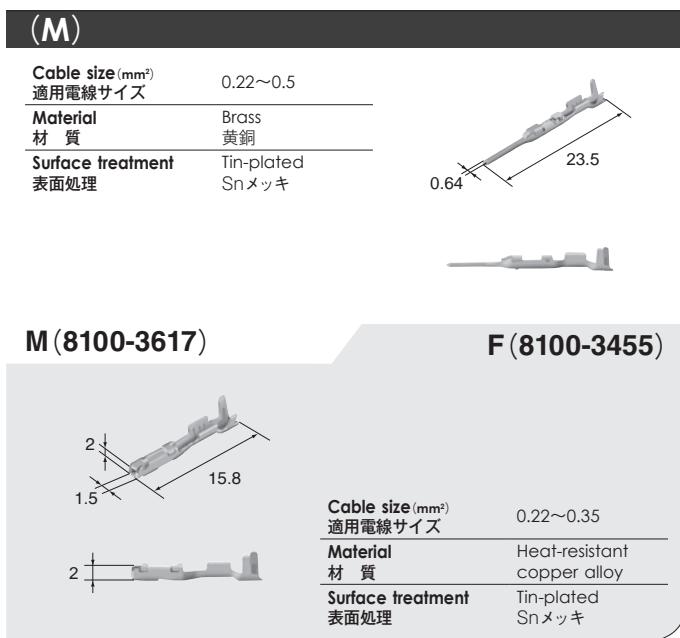
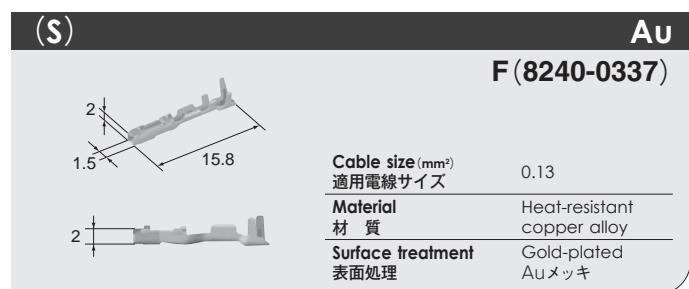
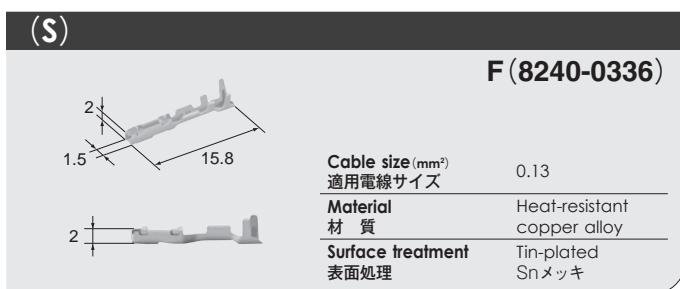


# 0.64mm (025)

B-03

TS  
SEALED SERIES

## Terminal (UNIT : mm)



# 0.64mm (025)

B-04

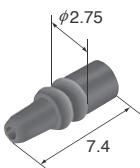
## Wire seals (UNIT : mm)

- The wire seals are common to M and F.  
\*A wireseal depends on a chosen cable.
  - ワイヤーシールはM、F共用です。
- ※使用電線により使用ワイヤーシールが異なります。

(SS)

(7165-1043)

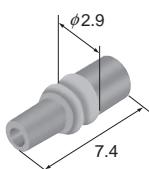
Cable size (mm <sup>2</sup> ) 適用電線サイズ	(CHFUS/0.22)
Cable overall diameter (mm) 電線仕上り外径	0.95~1.05
Material 材質	Silicon シリコン



(M)

(7165-1198)

Cable size (mm <sup>2</sup> ) 適用電線サイズ	(AVSS/0.3) (AVSSH/0.3) (AESSX/0.3)
Cable overall diameter (mm) 電線仕上り外径	1.4~1.5
Material 材質	Silicon シリコン



# 0.64mm (025)

## Dummy plugs (UNIT : mm)

- Dummy plugs are common to M and F.
- Dummy plugs are used to blind unused terminal holes.
- ダミー栓はM、F共用です。
- 不必要なターミナル穴を塞ぐために、ダミー栓を使用します。

(3S)

(7165-1423)

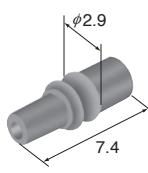
Cable size (mm <sup>2</sup> ) 適用電線サイズ	(CHFUS/0.13)
Cable overall diameter (mm) 電線仕上り外径	0.85~0.95
Material 材質	Silicon シリコン
Color 色相	Light Brown 淡茶



(S)

(7165-1312)

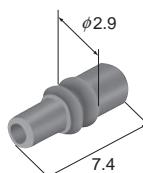
Cable size (mm <sup>2</sup> ) 適用電線サイズ	(CHFUS/0.35~0.5)
Cable overall diameter (mm) 電線仕上り外径	1.1~1.4
Material 材質	Silicon シリコン
Color 色相	Violet 紫



(L)

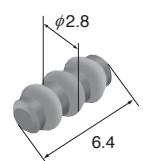
(7165-1199)

Cable size (mm <sup>2</sup> ) 適用電線サイズ	(AVSS/0.5) (AVSSH/0.5) (AVSSX/0.5) (AESSX/0.5)
Cable overall diameter (mm) 電線仕上り外径	1.6~1.7
Material 材質	Silicon シリコン
Color 色相	Red Violet 赤紫



Material 材質	NBR
Color 色相	Light Gray 淡灰

(7165-0797)



# 0.64mm (025)

## Housing (UNIT : mm)

Ref: Terminal part No.  
ターミナル参照頁

B-03

Ref: wire seal No.  
ワイヤーシール参照頁

B-04

Ref: Dummy plug No.  
ダミー栓参照頁

B-04

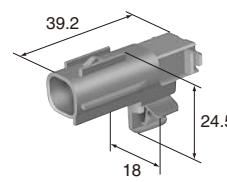
Material  
材質

PBT

### 2way

Color  
色相

Black  
黒



B-05

M (6188-4797)

F (6189-1161)



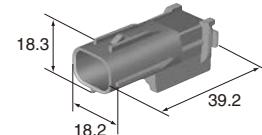
Color  
色相

Black  
黒

### 3way

Color  
色相

Black  
黒



M (6188-4920)

F (6189-1129)



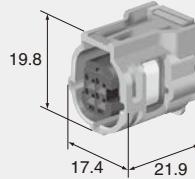
Color  
色相

Black  
黒

### 4way

F (6189-1132)

F (6189-6946)



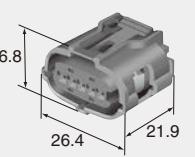
Color  
色相

Black  
黒

### 5way

F (6189-7401)

F (6189-1046)

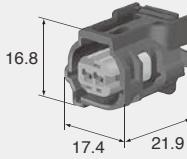


Color  
色相

Black  
黒

### 2way

F (6189-7020)

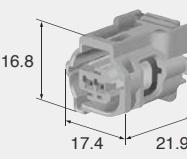


Color  
色相

Black  
黒

### 2way

F (6189-7073)

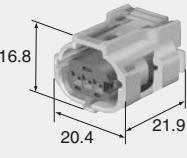


Color  
色相

Gray  
灰

### 3way

F (6189-1132)



Color  
色相

Gray  
灰

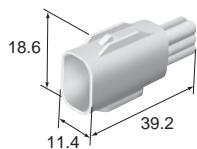
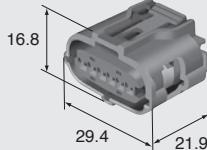
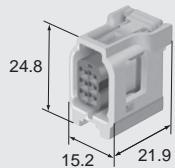
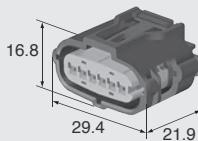
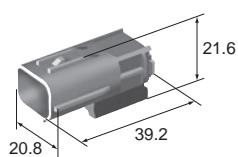
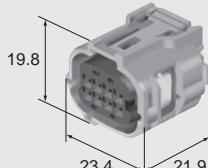
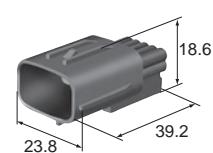
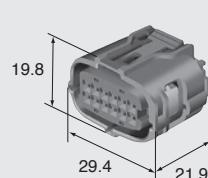
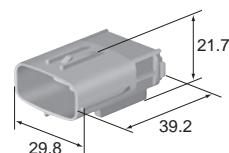
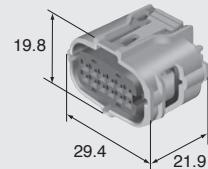
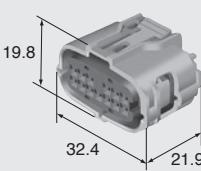
### 4way

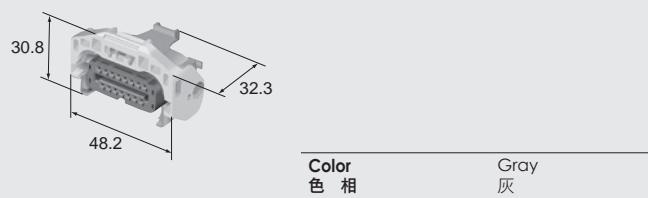
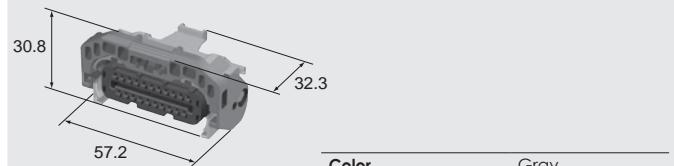
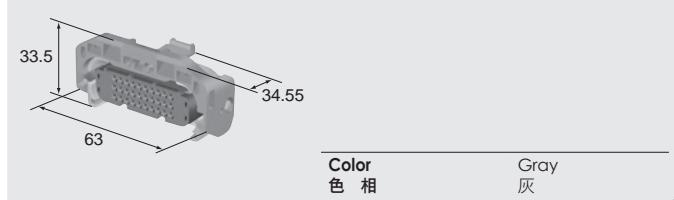
F (6189-7401)



Color  
色相

Black  
黒

**6way**Color  
色相Natural  
自然色**6way****F(6189-1083)**Color  
色相Black  
黒**B-06****M(6188-0706)**Color  
色相Natural  
自然色**F(6189-1142)****6way****F(6189-7100)**Color  
色相Black  
黒**8way**Color  
色相Gray  
灰**M(6188-0779)**Color  
色相Gray  
灰**F(6189-1240)****10way**Color  
色相Black  
黒**12way**Color  
色相Black  
黒**F(6189-1128)****13way**Color  
色相Gray  
灰**12way**Color  
色相Gray  
灰**F(6189-1133)****M(6188-4914)****F(6189-1092)**Color  
色相Gray  
灰

**15way****F(6189-1135)**Color  
色相Gray  
灰**17way****F(6189-7110)**Color  
色相Gray  
灰**20way****F(6189-7167)**Color  
色相Black  
黒**30way****F(6189-6987)**Color  
色相Gray  
灰

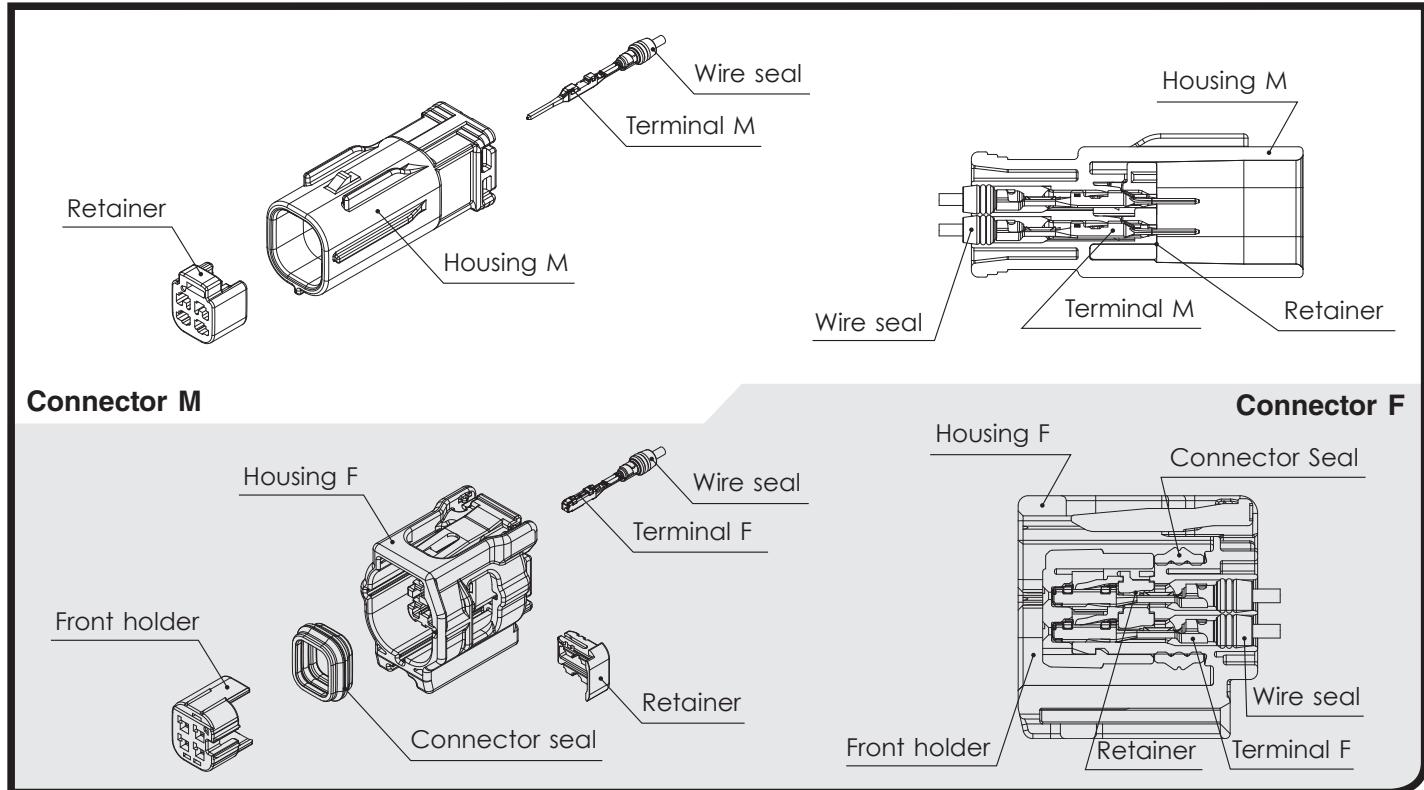
Sumitomo Wiring Systems, Ltd.

# TS SEALED SERIES for STANDARD

## 0.64W (025W)

### Structure / 構造

B-08



防水0.64W型コネクタは、防水0.64型コネクタから端子間ピッチを拡大しているため互換性はありません。  
(既存の防水0.64型コネクタと区別するため、防水0.64W型と呼称)

Since 0.64W has wider terminal pitch, there is no compatibility between 0.64 and 0.64W.  
(These connectors are called "0.64W series" to distinguish from existing 0.64 series.)

**0.64W (025W)**

### Terminal (UNIT : mm)

Ref: 0.64mm Terminal detail

0.64mmターミナル参照頁

**M(Sn) M(8100-3617)** B-03 **F(8100-3455)** B-03

**M(Au) M(8100-3708)** B-03 **F(8100-3456)** B-03

Au

B-09

**(LL)**

Cable size (mm <sup>2</sup> ) 適用電線サイズ	FPW/0.6 CIVUS/0.5 AVSS/0.5 AVSSX/0.5 AVSSH/0.5 IVSSH/0.5 AESSX/0.5 CHFUS/0.5 HFSS/0.5
Material 材質	Brass 黄銅
Surface treatment 表面処理	Tin-plated Snメッキ

**M (8230-5360)**

**F (8240-0500)**

Cable size (mm <sup>2</sup> ) 適用電線サイズ	FPW/0.6 CIVUS/0.5 AVSS/0.5 AVSSX/0.5 AVSSH/0.5 IVSSH/0.5 AESSX/0.5 CHFUS/0.5 HFSS/0.5
Material 材質	Heat resistant copper-alloy 耐熱銅合金
Surface treatment 表面処理	Tin-plated Snメッキ

**(LL)**

Cable size (mm <sup>2</sup> ) 適用電線サイズ	CIVUS/0.5 AVSS/0.5 AVSSX/0.5 AVSSH/0.5 IVSSH/0.5 AESSX/0.5 CHFUS/0.5 HFSS/0.5
Material 材質	Brass 黄銅
Surface treatment 表面処理	Gold-plated Auメッキ

**M (8230-5361)**

**F (8240-0501)**

Cable size (mm <sup>2</sup> ) 適用電線サイズ	CIVUS/0.5 AVSS/0.5 AVSSX/0.5 AVSSH/0.5 IVSSH/0.5 AESSX/0.5 CHFUS/0.5 HFSS/0.5
Material 材質	Heat resistant copper-alloy 耐熱銅合金
Surface treatment 表面処理	Gold-plated Auメッキ



## Wire seals (UNIT : mm)

The wire seals are common to M and F.

ワイヤシールはM、F共用です。

**(M)**

**(7165-1607)**

Cable size (mm <sup>2</sup> ) 適用電線サイズ	AVSS/0.3 AVSSH/0.3 IVSSH/0.35 HFSS/0.35
Cable overall diameter (mm) 電線仕上り外径	1.3~1.5
Material 材質	Silicon シリコン
Color 色相	Dark Green 濃緑

**(S)**

**(7165-1608)**

Cable size (mm <sup>2</sup> ) 適用電線サイズ	CIVUS/0.35~0.5 CHFUS/0.35~0.5
Cable overall diameter (mm) 電線仕上り外径	1.1~1.4
Material 材質	Silicon シリコン
Color 色相	Dark Gray 濃灰

**(L)**

**(7165-1606)**

Cable size (mm <sup>2</sup> ) 適用電線サイズ	FPW/0.6 AVSS/0.5 AVSSH/0.5 AVSSX/0.5 IVSSH/0.5 HFSS/0.5
Cable overall diameter (mm) 電線仕上り外径	1.51~1.73
Material 材質	Silicon シリコン
Color 色相	Dark Brown 濃茶

## 0.64W (025W)

B-10

### Dummy plugs (UNIT : mm)

- Dummy plugs are common to M and F.
- Dummy plugs are used to blind unused terminal holes.
- ダミー栓はM、F共用です。
- 不必要なターミナル穴を塞ぐために、ダミー栓を使用します。

## 0.64W (025W)

### Housing (UNIT : mm)

Ref: Terminal part No.  
ターミナル参照頁

B-08

Ref: wire seal No.  
ワイヤシール参照頁

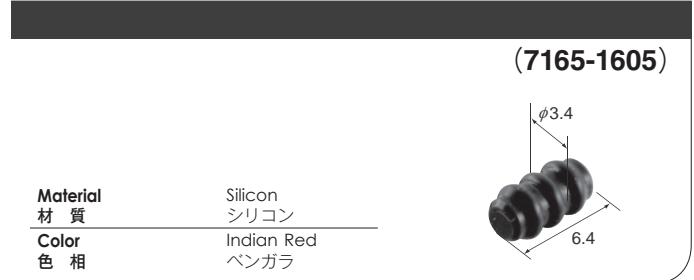
B-09

Ref: Dummy plug No.  
ダミー栓参照頁

B-10

Material  
材質

PA6T



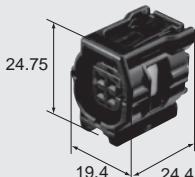
### 4way

Color  
色相

Black  
黒



### M (6188-5516)



### F (6189-7449)

Color  
色相

Black  
黒

## 0.64W, 2.3mm, 4.8mm (025W, 090, 187)

### Housing (UNIT : mm)

Ref: Terminal part No. ターミナル参照頁	[0.64W] [2.3mm] [4.8mm]	B-08 B-13(for P06) B-19
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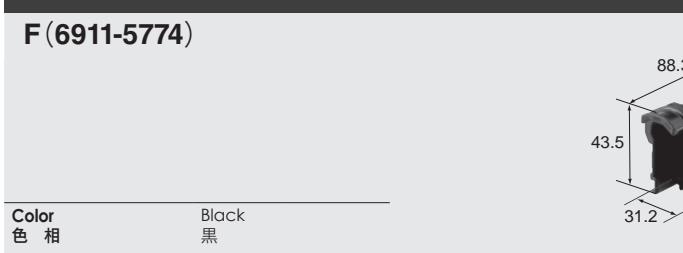
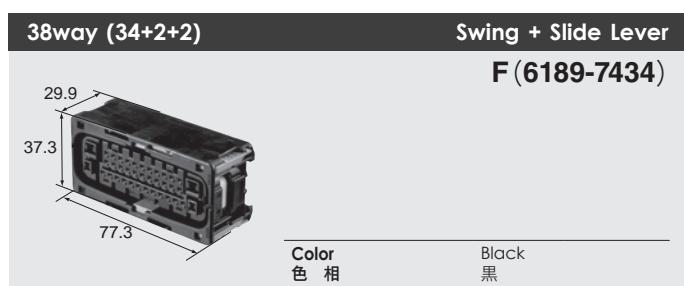
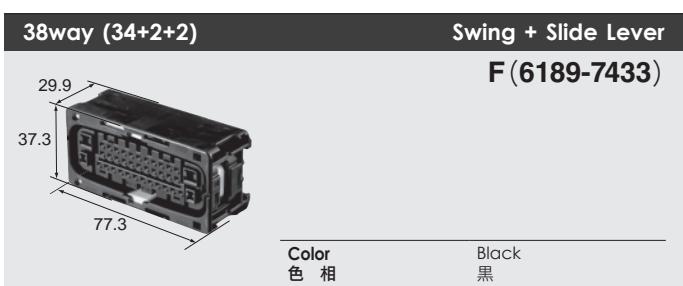
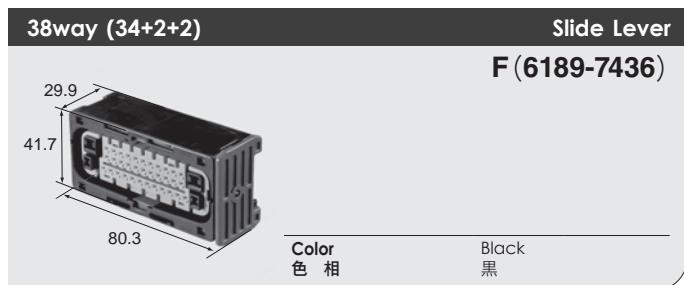
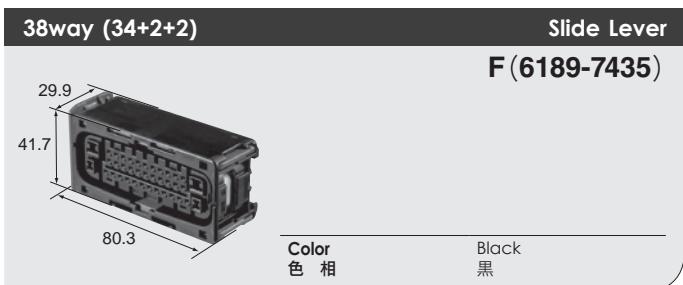
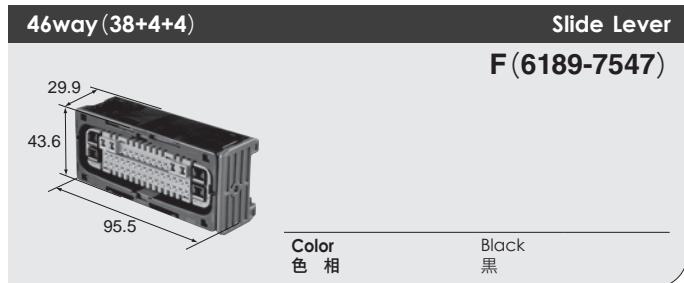
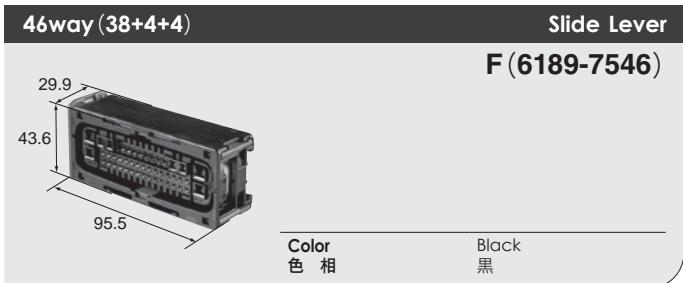
Ref: wire seal No. ワイヤシール参照頁	[0.64W] [2.3mm] [4.8mm]	B-09 B-14(for P06) B-20
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Ref: Dummy plug No. ダミー栓参照頁	[0.64W] [2.3mm] [4.8mm]	B-10 B-15(for P06) B-21
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Material 材質	PBT
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No. of way/ ( ) corresponds to 0.64W, 2.3mm, 4.8mm in order from left to right.  
極数／( ) 内表示：左から0.64W 極数、2.3mm 極数、4.8mm 極数

**TS SEALED SERIES**  
for HYBRID

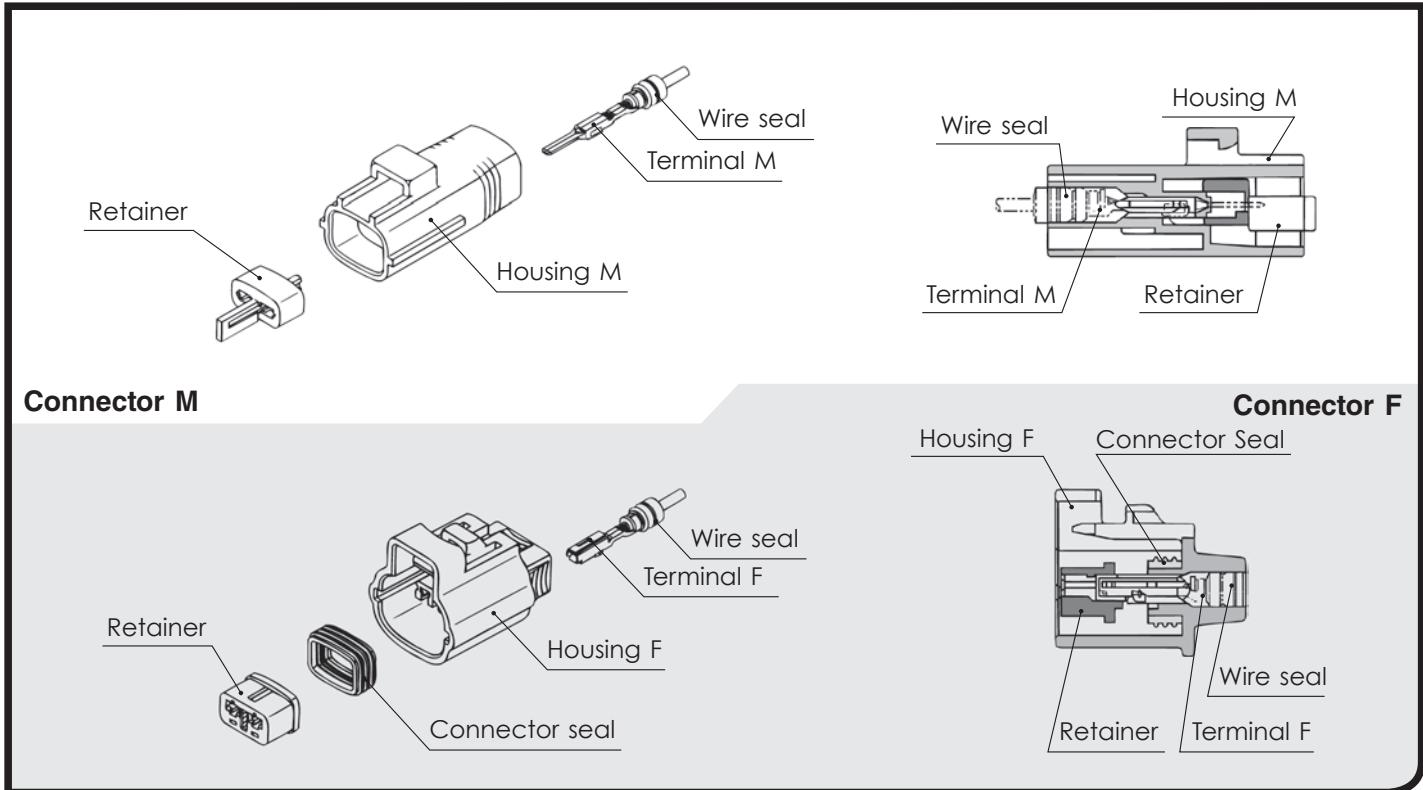
**Lever Assy**

# TS SEALED SERIES for STANDARD

## 2.3mm(090)

Structure / 構造

B-12



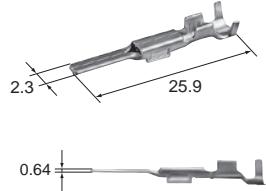
2.3mm (090)

Terminal (UNIT : mm)

Au

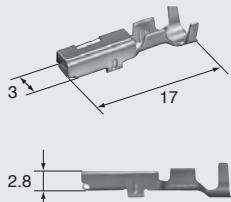
(S)

Cable size (mm <sup>2</sup> ) 適用電線サイズ	0.3~0.5
Material 材質	Brass 黄銅
Surface treatment 表面処理	Tin-plated Snメッキ



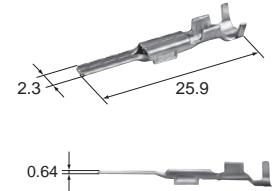
M (8100-0457)

Cable size (mm <sup>2</sup> ) 適用電線サイズ	0.3~0.5
Material 材質	Heat-resistant copper alloy
Surface treatment 表面処理	Tin-plated Snメッキ



F (8100-0460)

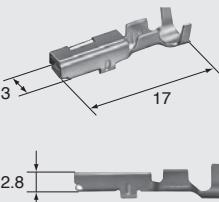
Cable size (mm <sup>2</sup> ) 適用電線サイズ	0.3~0.5
Material 材質	Brass 黄銅
Surface treatment 表面処理	Gold-plated Auメッキ



F (8100-1344)

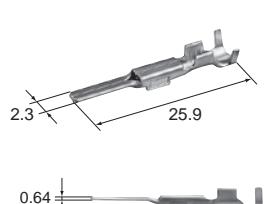
M (8100-1340)

Cable size (mm <sup>2</sup> ) 適用電線サイズ	0.3~0.5
Material 材質	Heat-resistant copper alloy
Surface treatment 表面処理	Gold-plated Auメッキ



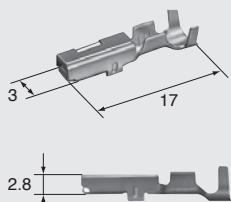
(M)

Cable size (mm <sup>2</sup> ) 適用電線サイズ	0.5~1.25
Material 材質	Brass 黄銅
Surface treatment 表面処理	Tin-plated Snメッキ



M (8100-0458)

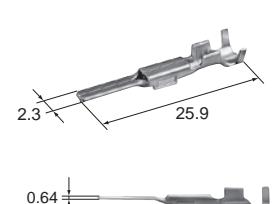
Cable size (mm <sup>2</sup> ) 適用電線サイズ	0.5~1.25
Material 材質	Heat-resistant copper alloy
Surface treatment 表面処理	Tin-plated Snメッキ



F (8100-0461)

(M)

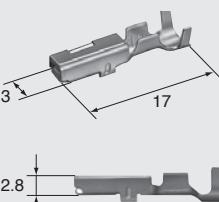
Cable size (mm <sup>2</sup> ) 適用電線サイズ	0.5~1.25
Material 材質	Brass 黄銅
Surface treatment 表面処理	Gold-plated Auメッキ



F (8100-0594)

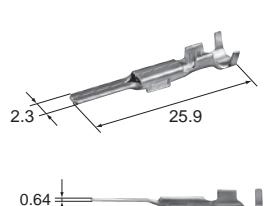
M (8100-1007)

Cable size (mm <sup>2</sup> ) 適用電線サイズ	0.5~1.25
Material 材質	Heat-resistant copper alloy
Surface treatment 表面処理	Gold-plated Auメッキ



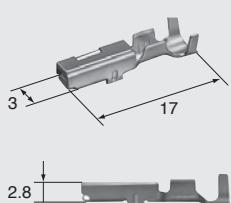
(L)

Cable size (mm <sup>2</sup> ) 適用電線サイズ	2.0
Material 材質	Brass 黄銅
Surface treatment 表面処理	Tin-plated Snメッキ



M (8100-0459)

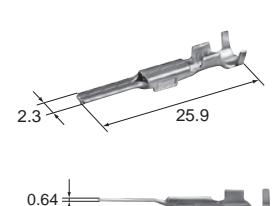
Cable size (mm <sup>2</sup> ) 適用電線サイズ	2.0
Material 材質	Heat-resistant copper alloy
Surface treatment 表面処理	Tin-plated Snメッキ



F (8100-0462)

(L)

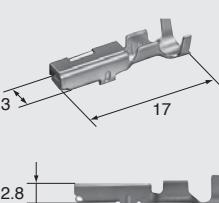
Cable size (mm <sup>2</sup> ) 適用電線サイズ	2.0
Material 材質	Brass 黄銅
Surface treatment 表面処理	Gold-plated Auメッキ



F (8100-0817)

M (8100-1008)

Cable size (mm <sup>2</sup> ) 適用電線サイズ	2.0
Material 材質	Heat-resistant copper alloy
Surface treatment 表面処理	Gold-plated Auメッキ



# 2.3mm (090)

B-14

## Wire seals (UNIT : mm)

The wire seals are common to M and F.

- P5 : For 5mm pitch housing/Please inquire us for the details.
- P6 : For 6mm pitch housing

ワイヤーシールはM、F共用です。

- P5 : 5ミリピッチ用／別途お問い合わせください。
- P6 : 6ミリピッチ用

(SS)

(P6)

(7165-0842)

Cable size (mm <sup>2</sup> ) 適用電線サイズ	(CHFUS/0.35~0.5)
Cable overall diameter (mm) 電線仕上り外径	1.1~1.4
Material 材質	Silicon シリコン
Color 色相	Blue 青



(S)

(P6)

(7165-0349)

Cable size (mm <sup>2</sup> ) 適用電線サイズ	(AVX・AEX/0.3) (AVS/0.3) (AVSS/0.3~0.85) (AVSSX・AELEX/0.3~0.75) (CAVUS/0.85~1.25)
Cable overall diameter (mm) 電線仕上り外径	1.4~2.0
Material 材質	Silicon シリコン
Color 色相	Dark Brown 濃茶



(M)

(P6)

(7165-0395)

Cable size (mm <sup>2</sup> ) 適用電線サイズ	(AV/0.5) (AVX・AEX/0.5~0.75) (AVS/0.5~0.85) (AVSS/1.25) (AVSSX・AELEX/1.25)
Cable overall diameter (mm) 電線仕上り外径	2.0~2.5
Material 材質	Silicon シリコン
Color 色相	Dark Green 濃緑



(S)

(P5)

(7165-0342)

Cable size (mm <sup>2</sup> ) 適用電線サイズ	(AVX・AEX/0.3) (AVS/0.3) (AVSS/0.3~0.85) (AVSSX・AELEX/0.3~0.75) (CAVUS/0.85~1.25)
Cable overall diameter (mm) 電線仕上り外径	1.4~2.0
Material 材質	Silicon シリコン
Color 色相	Brown 茶



(M)

(P5)

(7165-0343)

Cable size (mm <sup>2</sup> ) 適用電線サイズ	(AV/0.5) (AVX・AEX/0.5~0.75) (AVS/0.5~0.85) (AVSS/1.25) (AVSSX・AELEX/1.25)
Cable overall diameter (mm) 電線仕上り外径	2.0~2.5
Material 材質	Silicon シリコン
Color 色相	Black 黒



(L)

(P6)

(7165-0351)

Cable size (mm <sup>2</sup> ) 適用電線サイズ	(AV/1.25) (AVX・AEX/1.25) (AVS/1.25) (AVSS/2.0) (AVSSX・AELEX/2.0)
Cable overall diameter (mm) 電線仕上り外径	2.5~2.9
Material 材質	Silicon シリコン
Color 色相	Dark Gray 濃灰



(L)

(P5)

(7165-0344)

Cable size (mm <sup>2</sup> ) 適用電線サイズ	(AV/1.25) (AVX・AEX/1.25) (AVS/1.25) (AVSS/2.0) (AVSSX・AELEX/2.0)
Cable overall diameter (mm) 電線仕上り外径	2.5~2.9
Material 材質	Silicon シリコン
Color 色相	Dark Blue 紺



## 2.3mm (090)

### Dummy plugs (UNIT : mm)

- Dummy plugs are common to M and F.
- Dummy plugs are used to blind unused terminal holes.
- P5 : For 5mm pitch housing/Please inquire us for the details.
- P6 : For 6mm pitch housing
- ダミー栓はM、F共用です。
- 不必要なターミナル穴を塞ぐために、ダミー栓を使用します。
- P5 : 5ミリピッチ用／別途お問い合わせください。
- P6 : 6ミリピッチ用

## 2.3mm (090)

### Housing (UNIT : mm)

Ref: Terminal part No.  
ターミナル参照頁

B-13

Ref: wire seal No.  
ワイヤーシール参照頁

B-14

Ref: Dummy plug No.  
ダミー栓参照頁

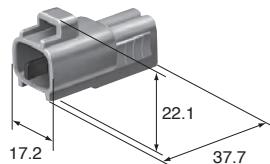
B-15

Material  
材質

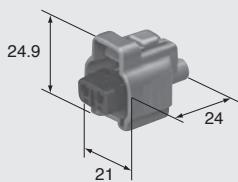
PBT

### 2way

Color  
色相

Gray  
灰

M (6188-0108)



Color  
色相

Gray  
灰

F (6189-0199)

(P6)  
(7160-9465)

Material 材質	NBR
Color 色相	Black 黒

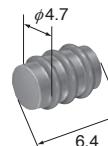


B-15

(P5)

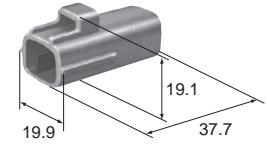
(7161-9787)

Material 材質	NBR
Color 色相	Brown 茶

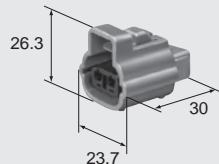


### 2way

Color 色相	Gray 灰
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M (6188-0047)

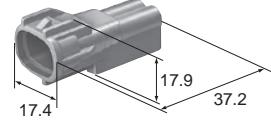


F (6189-0100)

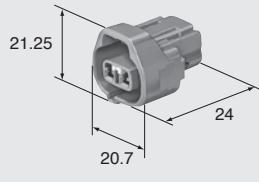
Color 色相	Gray 灰
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### 2way

Color 色相	Gray 灰
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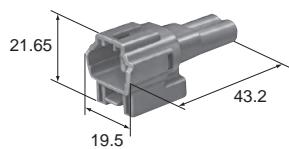
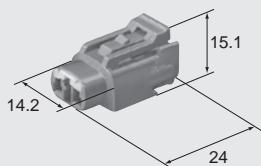
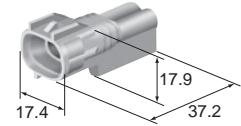
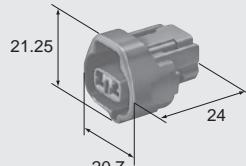
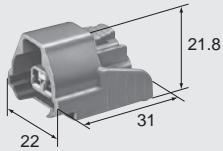


M (6188-0266)



F (6189-0249)

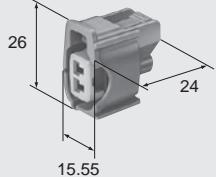
Color 色相	Gray 灰
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**2way**Color  
色相Gray  
灰**B-16****M (6188-0229)**Color  
色相Gray  
灰**F (6189-0388)**Color  
色相Gray  
灰**2way**Color  
色相Natural  
自然色**M (6188-0624)**Color  
色相Natural  
自然色**F (6189-0765)****2way****P5****F (6189-0566)**Ref: Wire seal No.  
ワイヤシール参照頁

B-10 (For P5)

Ref: Dummy plug No.  
ダミー栓参照頁

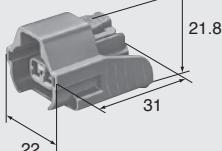
B-11 (For P5)

Color  
色相Gray  
灰**2way****P5****F (6189-0611)**Ref: Wire seal No.  
ワイヤシール参照頁

B-10 (For P5)

Ref: Dummy plug No.  
ダミー栓参照頁

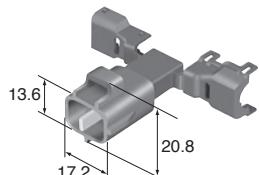
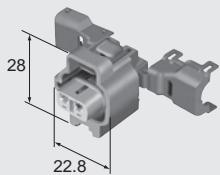
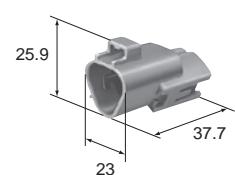
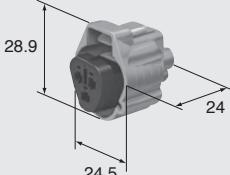
B-11 (For P5)

Color  
色相Gray  
灰**2way****P5****F (6189-0573)**Ref: Wire seal No.  
ワイヤシール参照頁

B-10 (For P5)

Ref: Dummy plug No.  
ダミー栓参照頁

B-11 (For P5)

Color  
色相Gray  
灰**2way**Color  
色相Gray  
灰**M (6188-0470)**Color  
色相Gray  
灰**F (6189-0682)****3way (T Type)**Color  
色相Gray  
灰**M (6188-0099)**Color  
色相Gray  
灰**F (6189-0179)**

**3way (E Type)**

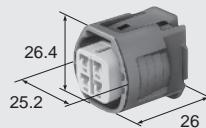
Color 色相 Gray 灰

**M (6188-0282)**

Color  
色相

**F (6189-0443)**

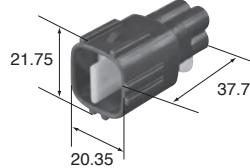
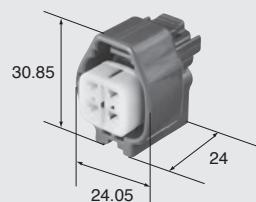
Color  
色相 Gray 灰

**4way****F (6189-0694)**

Color 色相 Black 黑

**4way**

Color 色相 Black 黑

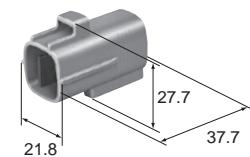
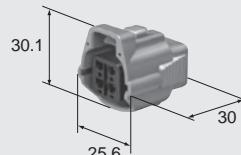
**M (6188-0517)**

Color  
色相

Color  
色相 Black 黑

**F (6189-0581)****4way**

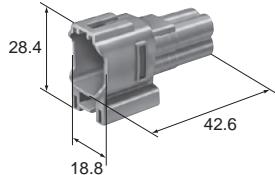
Color 色相 Gray 灰

**M (6188-0066)**

Color 色相 Gray 灰

**F (6189-0126)****4way**

Color 色相 Gray 灰

**4way**

Color 色相 Gray 灰

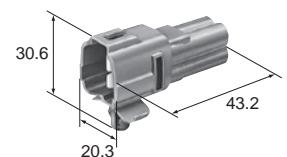
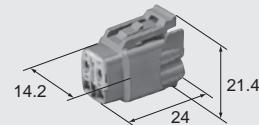
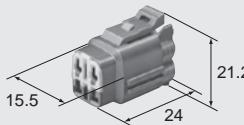


Plate thickness range for clamp:  
 $t=0.7 \sim 2.2$

**M (6188-0141)**

Color  
色相

Color  
色相 Gray 灰

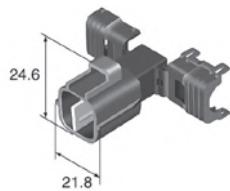
**F (6189-0381)**

Color 色相 Gray 灰

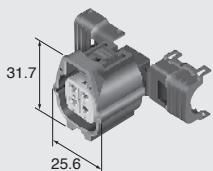
**M (6188-0217)****F (6189-0372)**

**4way**

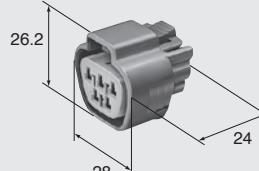
Color 色相 Gray 灰

**5way**

Color 色相 Gray 灰

**M (6188-0472)****F (6189-0685)**

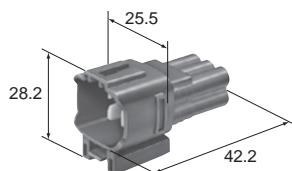
Color 色相 Gray 灰

**M (6188-0327)****F (6189-0504)**

Color 色相 Gray 灰

**6way**

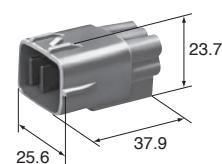
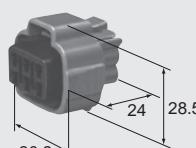
Color 色相 Gray 灰

**M (6188-0173)****F (6189-0319)**

Color 色相 Gray 灰

**6way**

Color 色相 Gray 灰

**M (6188-0175)****F (6189-0323)**

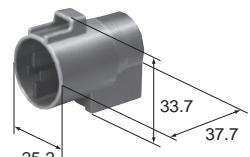
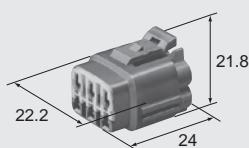
Color 色相 Gray 灰

**6way**

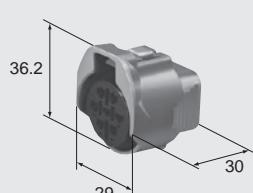
Color 色相 Gray 灰

**7way**

Color 色相 Gray 灰

**M (6188-0067)****F (6189-0127)**

Color 色相 Gray 灰



Color 色相 Gray 灰

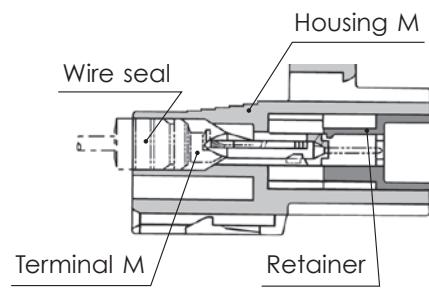
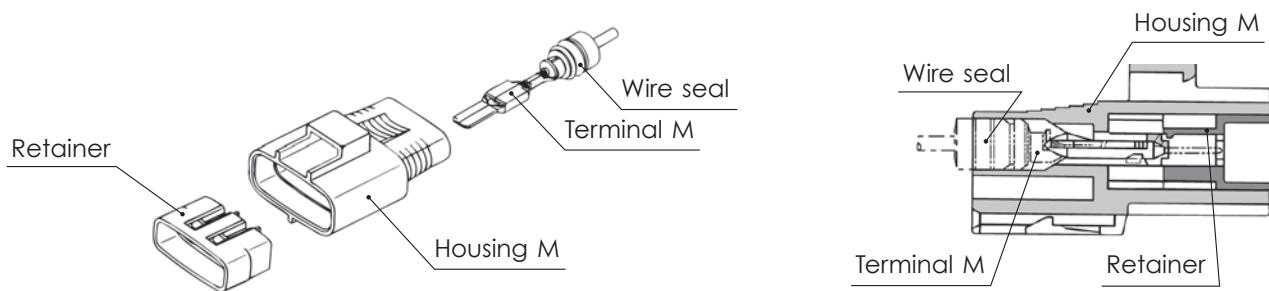
# TS SEALED SERIES for STANDARD

## 4.8mm(187)

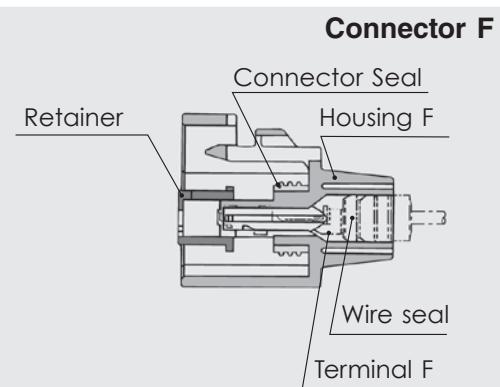
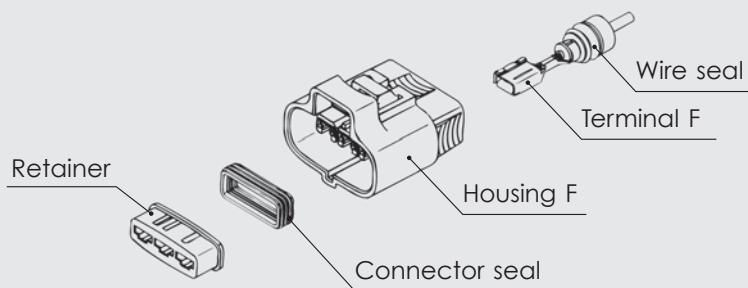
Structure / 構造

B-19

TS SEALED SERIES



**Connector M**

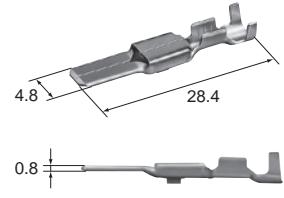


**4.8mm(187)**

**Terminal** (UNIT: mm)

**(S)**

Cable size (mm <sup>2</sup> ) 適用電線サイズ	0.3~0.5
Material 材質	Brass 黄銅
Surface treatment 表面処理	Tin-plated Snメッキ



**M (8100-0463)**

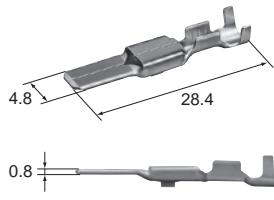


Cable size (mm <sup>2</sup> ) 適用電線サイズ	0.3~0.5
Material 材質	Brass 黄銅
Surface treatment 表面処理	Tin-plated Snメッキ

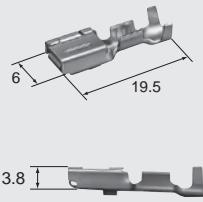
**F (8100-0466)**

## (M)

Cable size (mm <sup>2</sup> ) 適用電線サイズ	0.5~1.25
Material 材質	Brass 黄銅
Surface treatment 表面処理	Tin-plated Snメッキ



M (8100-0464)



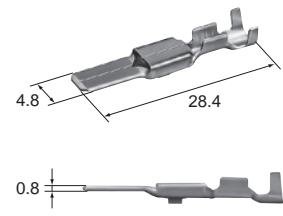
Cable size (mm <sup>2</sup> ) 適用電線サイズ	0.5~1.25
Material 材質	Brass 黄銅
Surface treatment 表面処理	Tin-plated Snメッキ

F (8100-0467)

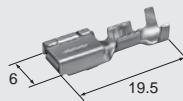


## (L)

Cable size (mm <sup>2</sup> ) 適用電線サイズ	2.0~3.0
Material 材質	Brass 黄銅
Surface treatment 表面処理	Tin-plated Snメッキ



M (8100-0465)



Cable size (mm <sup>2</sup> ) 適用電線サイズ	2.0~3.0
Material 材質	Heat-resistant copper alloy
Surface treatment 表面処理	Tin-plated Snメッキ

F (8100-0468)



## 4.8mm (187)

## Wire seals (UNIT : mm)

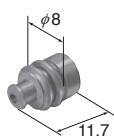
The wire seals are common to M and F.

ワイヤーシールは M、F 共用です。

## (S)

(7165-0346)

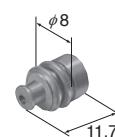
Cable size (mm <sup>2</sup> ) 適用電線サイズ	(AVS/0.3) (AVSS/0.3~0.85) (AVSSX·AEWX/0.5~0.75) (CAVUS/0.85~1.25)
Cable overall diameter (mm) 電線仕上り外径	1.4~2.0
Material 材質	Silicon シリコン
Color 色相	Dark Brown 濃茶



## (M)

(7165-0347)

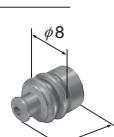
Cable size (mm <sup>2</sup> ) 適用電線サイズ	(AV/0.5~1.25) (AVX·AEX/0.5~1.25) (AVS/0.5~1.25) (AVSS/1.25~2.0) (AVSSX·AEWX/1.25~2.0)
Cable overall diameter (mm) 電線仕上り外径	2.0~2.9
Material 材質	Silicon シリコン
Color 色相	Dark Green 濃緑



## (L)

(7165-0348)

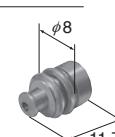
Cable size (mm <sup>2</sup> ) 適用電線サイズ	(AV/2.0) (AVX·AEX/2.0) (AVS/2.0)
Cable overall diameter (mm) 電線仕上り外径	2.9~3.5
Material 材質	Silicon シリコン
Color 色相	Dark Gray 濃灰



## (LL)

(7165-0356)

Cable size (mm <sup>2</sup> ) 適用電線サイズ	(AV/3.0) (AVX·AEX/3.0) (AVS/3.0)
Cable overall diameter (mm) 電線仕上り外径	3.5~4.1
Material 材質	Silicon シリコン
Color 色相	Dark Blue 紺



## 4.8mm (187)

### Dummy plugs (UNIT : mm)

- Dummy plugs are common to M and F.
- Dummy plugs are used to blind unused terminal holes.
- ダミー栓は M、F 共用です。
- 不必要なターミナル穴を塞ぐために、ダミー栓を使用します。

## 4.8mm (187)

### Housing (UNIT : mm)

Ref: Terminal part No.  
ターミナル参照頁

B-19

Ref: wire seal No.  
ワイヤーシール参照頁

B-20

Ref: Dummy plug No.  
ダミー栓参照頁

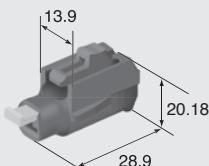
B-21

Material  
材質

PBT

#### 1way

F (6189-0413)

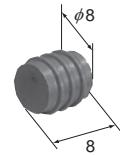


Color  
色相

Black  
黒

Material 材質	NBR
Color 色相	Gray 灰

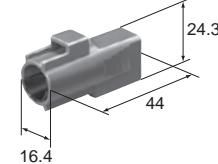
(7165-0145)



#### 1way

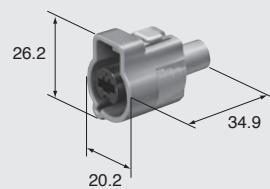
Color  
色相

Gray  
灰



M (6188-0083)

F (6189-0145)



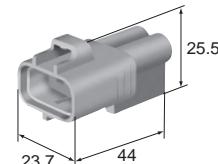
Color  
色相

Gray  
灰

#### 2way

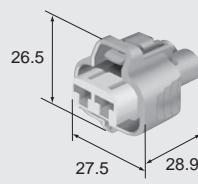
Color  
色相

Gray  
灰



M (6188-0259)

F (6189-0425)



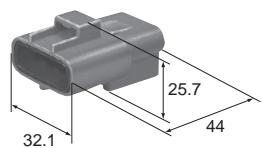
Color  
色相

Gray  
灰

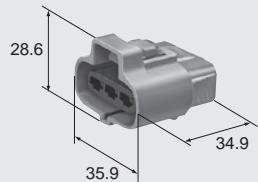
**3way**

**Color**  
色相

**Gray**  
灰



**F (6189-0165)**



**Color**  
色相

**Gray**  
灰

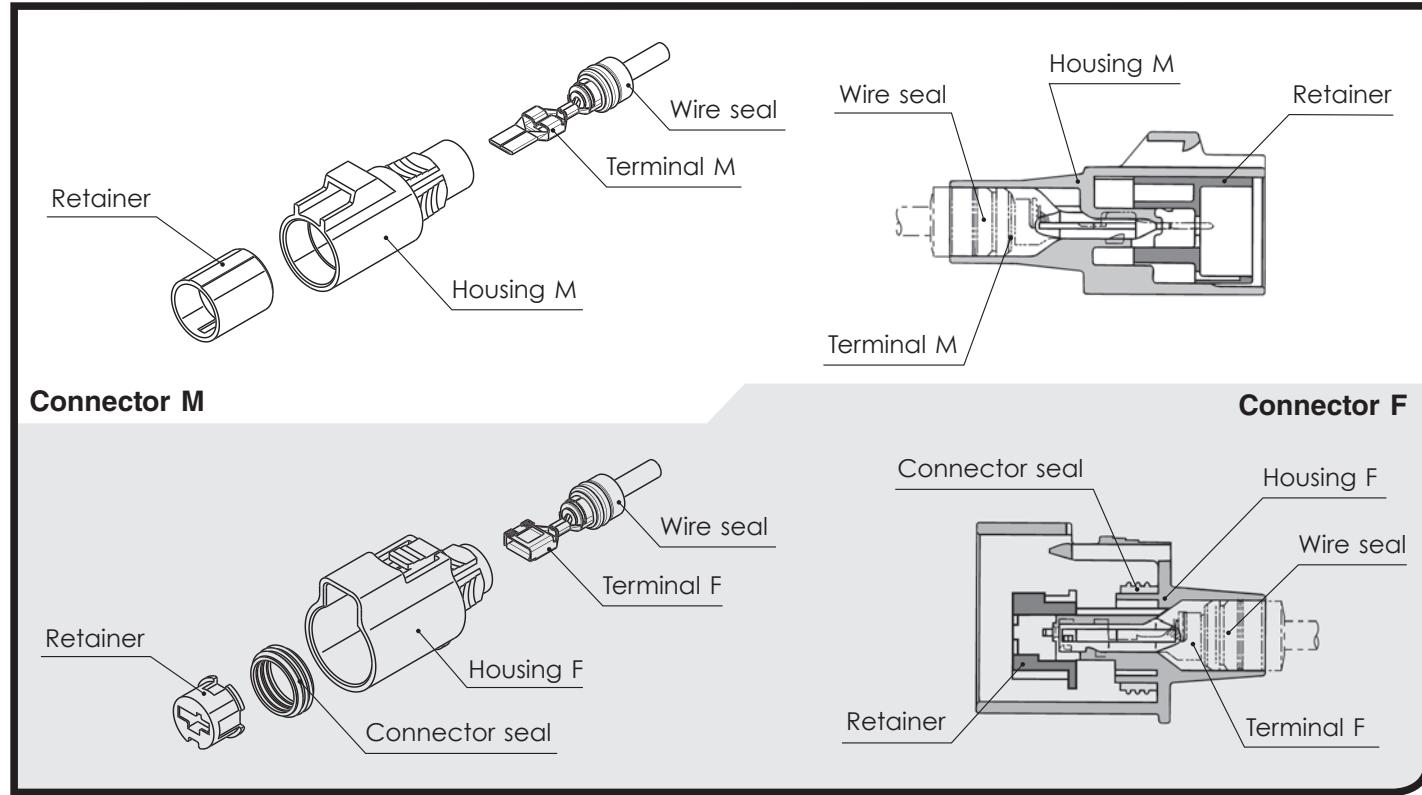
# TS SEALED SERIES for STANDARD

## 8.0mm (312)

Structure / 構造

B-23

TS SEALED SERIES

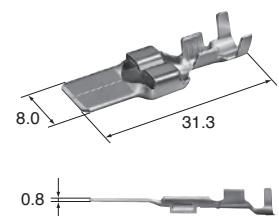


8.0mm (312)

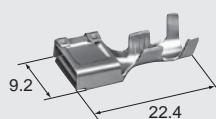
Terminal (UNIT : mm)

(S)

Cable size (mm <sup>2</sup> ) 適用電線サイズ	0.5~1.25
Cable overall diameter (mm) 電線仕上りサイズ	2.0~2.7
Material 材質	Brass 黄銅
Surface treatment 表面処理	Tin-plated Snメッキ



M (8100-0506)

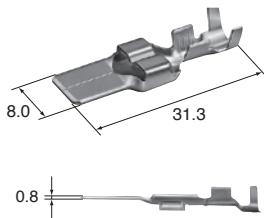


F (8100-0451)

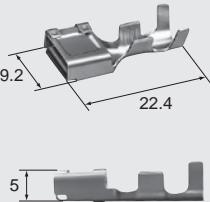
Cable size (mm <sup>2</sup> ) 適用電線サイズ	0.5~1.25
Cable overall diameter (mm) 電線仕上りサイズ	2.0~2.7
Material 材質	Brass 黄銅
Surface treatment 表面処理	Tin-plated Snメッキ

## (M)

Cable size (mm <sup>2</sup> ) 適用電線サイズ	2.0~3.0
Cable overall diameter (mm) 電線仕上り外径	2.6~4.1
Material 材質	Brass 黄銅
Surface treatment 表面処理	Tin-plated Snメッキ



M (8100-0507)



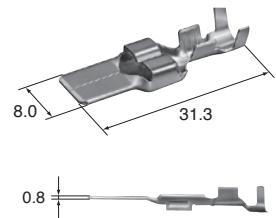
Cable size (mm <sup>2</sup> ) 適用電線サイズ	2.0~3.0
Cable overall diameter (mm) 電線仕上り外径	2.6~4.1
Material 材質	Brass 黄銅
Surface treatment 表面処理	Tin-plated Snメッキ

F (8100-0452)

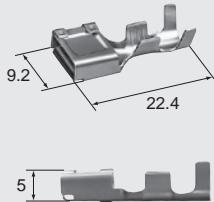
Cable size (mm <sup>2</sup> ) 適用電線サイズ	2.0~3.0
Cable overall diameter (mm) 電線仕上り外径	2.6~4.1
Material 材質	Brass 黄銅
Surface treatment 表面処理	Tin-plated Snメッキ

## (L)

Cable size (mm <sup>2</sup> ) 適用電線サイズ	5.0~8.0
Cable overall diameter (mm) 電線仕上り外径	4.4~5.8
Material 材質	Brass 黄銅
Surface treatment 表面処理	Tin-plated Snメッキ



M (8100-0508)



Cable size (mm <sup>2</sup> ) 適用電線サイズ	5.0~8.0
Cable overall diameter (mm) 電線仕上り外径	4.4~5.8
Material 材質	Heat-resistant copper alloy
Surface treatment 表面処理	Tin-plated Snメッキ

F (8100-2980)

## 8.0mm (312)

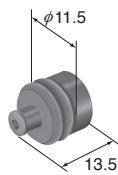
## Wire seals (UNIT : mm)

The wire seals are common to M and F.

ワイヤーシールは M、F 共用です。

## (SS)

(7165-0683)



Cable size (mm <sup>2</sup> ) 適用電線サイズ	(AVS・AVX/0.5~1.25)
Cable overall diameter (mm) 電線仕上り外径	Over 2.0 mm less than 2.9 mm 2.0 mm を越え 2.9 mm 以下
Material 材質	Silicon シリコン
Color 色相	Dark Brown 濃茶

## (S)

(7165-0400)

Cable size (mm <sup>2</sup> ) 適用電線サイズ	(AV/3.0) (AVX・AEX/3.0) (AVS/3.0)
Cable overall diameter (mm) 電線仕上り外径	3.6~4.1
Material 材質	Silicon シリコン
Color 色相	Dark Gray 濃灰



## (M)

(7165-0392)

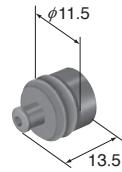


Cable size (mm <sup>2</sup> ) 適用電線サイズ	(AV/5.0) (AVX・AEX/5.0) (AVS/5.0)
Cable overall diameter (mm) 電線仕上り外径	4.4~4.9
Material 材質	Silicon シリコン
Color 色相	Dark Blue 紺

## (L)

(7165-0393)

Cable size (mm <sup>2</sup> ) 適用電線サイズ	(AV/8.0) (AVX・AEX/8.0) (AVS/8.0)
Cable overall diameter (mm) 電線仕上り外径	5.3~5.8
Material 材質	Silicon シリコン
Color 色相	Black 黒



## 8.0mm (312)

### Dummy plugs (UNIT : mm)

- Dummy plugs are common to M and F.
- Dummy plugs are used to blind unused terminal holes.
- ダミー栓は M、F 共用です。
- 不必要なターミナル穴を塞ぐために、ダミー栓を使用します。

## 8.0mm (312)

### Housing (UNIT : mm)

Ref: Terminal part No.  
ターミナル参照頁

B-23

Ref: wire seal No.  
ワイヤーシール参照頁

B-24

Ref: Dummy plug No.  
ダミー栓参照頁

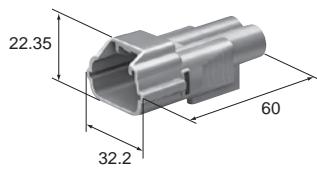
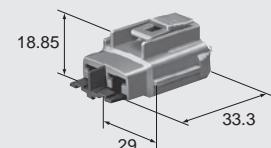
B-25

Material  
材質

PBT

### 2way

Color  
色相

Gray  
灰**M (6188-0096)**

Color  
色相

Gray  
灰**F (6189-0172)**

Color  
色相

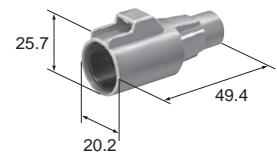
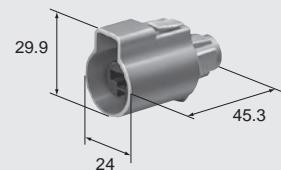
**(7165-0180)**Material  
材質

NBR

Color  
色相Gray  
灰

### 1way

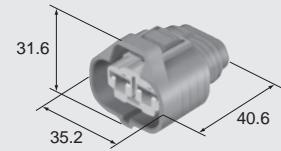
Color  
色相

Gray  
灰**M (6188-0049)****F (6189-0101)**

Color  
色相

Gray  
灰

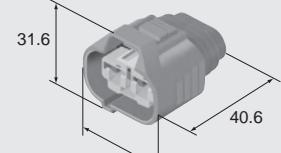
### 2way

**F (6189-0856)**

Color  
色相

Gray  
灰

### 2way

**F (6189-6953)**

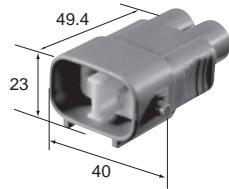
Color  
色相

Gray  
灰

2way

Color  
色相

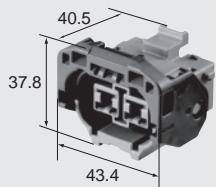
Gray  
灰



B-26

M(6188-5295)

F(6189-7256)



Color  
色相

Gray  
灰

**0.64mm, 2.3mm  
(025, 090)**

## Housing (UNIT : mm)

Ref: Terminal part No.	[0.64mm]	B-03
ターミナル参照頁	[2.3mm]	B-13
Ref: wire seal No.	[0.64mm]	B-04
ワイヤシール参照頁	[2.3mm]	B-14
Ref: Dummy plug No.	[0.64mm]	B-04
ダミー栓参照頁	[2.3mm]	B-15

Material  
材質 PBT

No. of way/ ( ) corresponds to 0.64mm, 2.3mm, in order from left to right.  
極数／( )内表示：左から0.64mm 極数、2.3mm 極数

## TS SEALED SERIES for HYBRID

10way (6+4)

F(6189-7691)

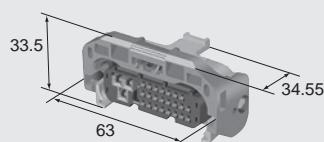


Color  
色相

Black  
黒

13way (10+3)

F(6189-7077)

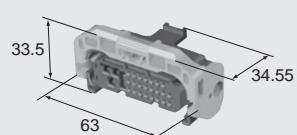


Color  
色相

Gray  
灰

26way (23+3)

F(6189-6934)



Color  
色相

Black  
黒

# 0.64mm, 4.8mm (025, 187)

## Housing (UNIT : mm)

Ref: Terminal part No. ターミナル参照頁	[0.64mm] B-03 [4.8mm] B-19
Ref: wire seal No. ワイヤーシール参照頁	[0.64mm] B-04 [4.8mm] B-20
Ref: Dummy plug No. ダミー栓参照頁	[0.64mm] B-04 [4.8mm] B-21
Material 材質	PBT

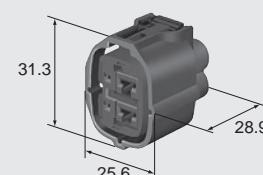
No. of way ( ) corresponds to 0.64mm, 4.8mm, in order from left to right.  
極数／( ) 内表示：左から0.64mm 極数、4.8mm 極数

## 4way (2+2)

Color 色相 Black 黒



## M (6188-5103)

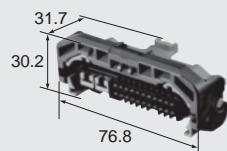


## F (6189-1048)

Color 色相 Black 黒

## 24way (22+2)

### F (6189-7426)



Color 色相 Gray 灰

## 34way (30+4)

### F (6189-6978)



Color 色相 Black 黒

## 34way (30+4)

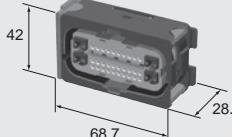
### F (6189-6979)



Color 色相 Gray 灰

## 34way (30+4)

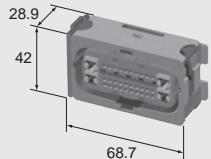
### F (6189-6980)



Color 色相 Black 黒

## 34way (30+4)

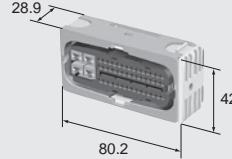
### F (6189-6981)



Color 色相 Gray 灰

## 40way (36+4)

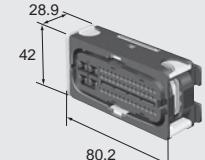
### F (6189-1160)



Color 色相 Gray 灰

## 46way (42+4)

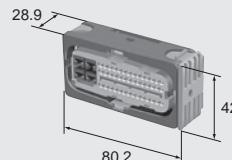
### F (6189-1136)



Color 色相 Black 黒

## 46way (42+4)

### F (6189-6894)



Color 色相 Black 黒

**0.64mm, 2.3mm, 4.8mm  
(025, 090, 187)**

## Housing (UNIT : mm)

Ref: Terminal part No. ターミナル参照頁	[0.64mm] B-03 [2.3mm] B-13 [4.8mm] B-19
Ref: wire seal No. ワイヤーシール参照頁	[0.64mm] B-04 [2.3mm] B-14 [4.8mm] B-20
Ref: Dummy plug No. ダミー栓参照頁	[0.64mm] B-04 [2.3mm] B-15 [4.8mm] B-21

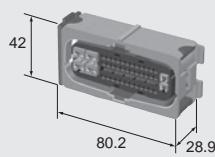
**Material**  
材質 PBT

No. of way/ ( ) corresponds to 0.64mm, 2.3mm, 4.8mm in order from left to right.

極数／( ) 内表示：左から0.64mm 極数、2.3mm 極数 4.8mm 極数

**42way (36+2+4)**

**F (6189-7094)**



Color  
色相 Black  
黒

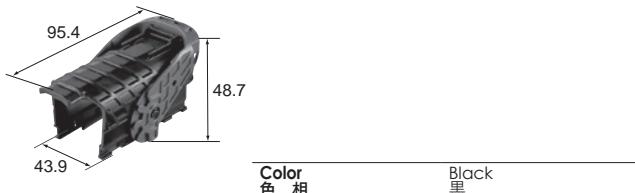
**52way (42+4+6)**

**F (6189-7809)**



**Lever Assy**

**(6911-5948)**



## 2.3mm, 4.8mm (090, 187)

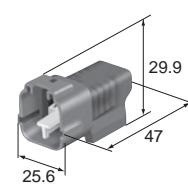
### Housing (UNIT : mm)

Ref: Terminal part No.	[2.3mm] B-13 ターミナル参照頁	[4.8mm] B-19
Ref: wire seal No.	[2.3mm] B-14 (For P6) ワイヤーシール参照頁	[4.8mm] B-20
Ref: Dummy plug No.	[2.3mm] B-15 (For P6) ダミー栓参照頁	[4.8mm] B-21
Material 材質	PBT	

No. of way/ ( ) corresponds to 2.3mm, 4.8mm in order from left to right.  
極数／( ) 内表示：左から2.3mm 極数、4.8mm 極数

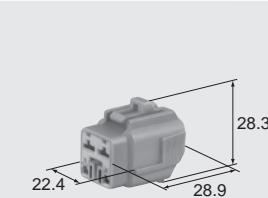
### 4way (2+2)

Color 色相 Gray 灰



B-29

### M (6188-0415)

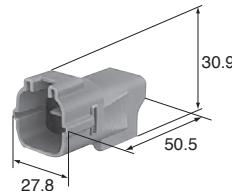


### F (6189-0144)

Color 色相 Gray 灰

### 5way (3+2)

Color 色相 Gray 灰



### M (6188-0091)



Color 色相 Gray 灰

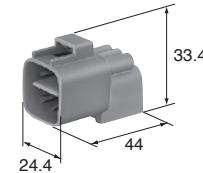
### F (6189-0166)



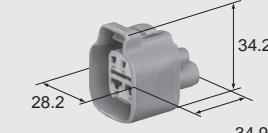
Color 色相 Gray 灰

### 5way (3+2)

Color 色相 Gray 灰



### M (6188-0101)



### F (6189-0181)

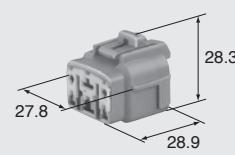
Color 色相 Gray 灰

### 6way (4+2)

Color 色相 Gray 灰



### M (6188-0187)



Color 色相 Gray 灰

### F (6189-0143)

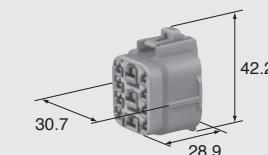


### 11way (8+3)

Color 色相 Gray 灰



### M (6188-0221)



### F (6189-0376)

Color 色相 Gray 灰

## 4.8mm, 8.0mm (187, 312)

### Housing (UNIT : mm)

B-30

Ref: Terminal part No. [4.8mm] B-19  
ターミナル参照頁 [8.0mm] B-23

Ref: wire seal No. [4.8mm] B-20  
ワイヤーシール参照頁 [8.0mm] B-24

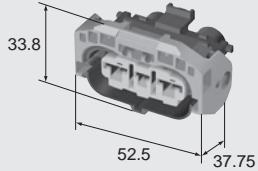
Ref: Dummy plug No. [4.8mm] B-21  
ダミー栓参照頁 [8.0mm] B-25

Material PBT  
材質

No. of way/ ( ) corresponds to 4.8mm, 8.0mm in order from left to right.  
極数／( ) 内表示：左から4.8mm 極数、8.0mm 極数

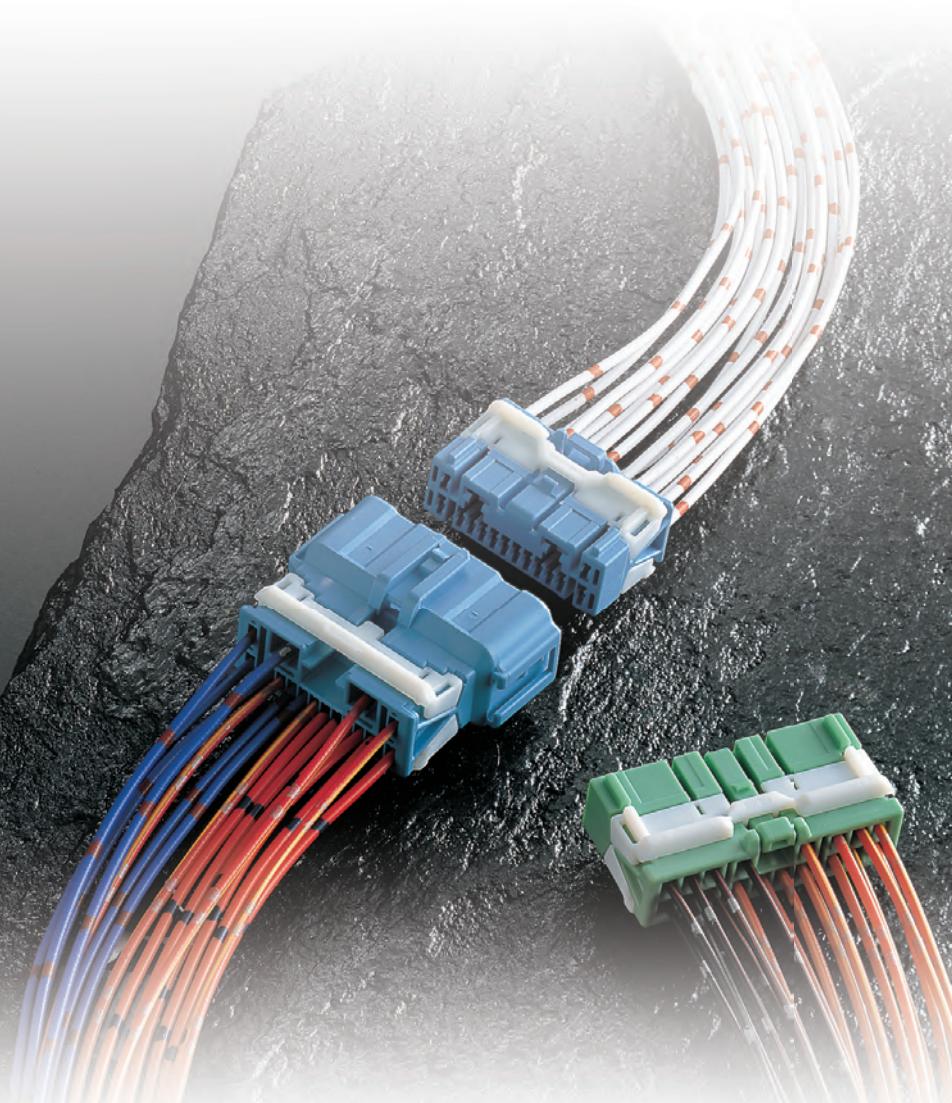
3way (1+2)

F (6189-7156)



Color  
色相  
Black  
黒

# HE SERIES



## Features

The HE connector series is the highly reliable improved version of the conventional HD series, with a mechanism that minimizes the possibility of terminal back out and semi-engagement of connectors.

This series consists of 0.64mm, 1.0mm, 2.3mm, 4.8mm and 9.5mm types (0.64mm, 1.0mm, 2.3mm, 4.8mm and 8.0mm types for the hybrid model) classified according to terminal size, supporting use in a variety of control circuits and low power circuits.

- An incompletely inserted terminal is automatically adjusted to the correct position by setting a retainer.
- Retainers are pre-mounted on the connector housing, and are structured to enable setting by the same simple operation regardless of the number of ways, improving operability.
- An extra clip can be attached to the connector housing to secure it to the car body, and multiple connectors can be joined.
- PCB models are also available for connection to printed circuit boards.
- RoHS/ELV Compliant

## 特長

HEシリーズは、従来のHDシリーズを改良し、信頼性を向上させたコネクタです。ターミナル抜けやコネクタの半嵌合が起きにくい機構を備えています。

ターミナルサイズにより0.64mm・1.0mm・2.3mm・4.8mm・9.5mm(ハイブリッドは0.64mm・1.0mm・2.3mm・4.8mm・8.0mm)で構成されており、各種の制御回路並びに低パワー回路に対応することができます。

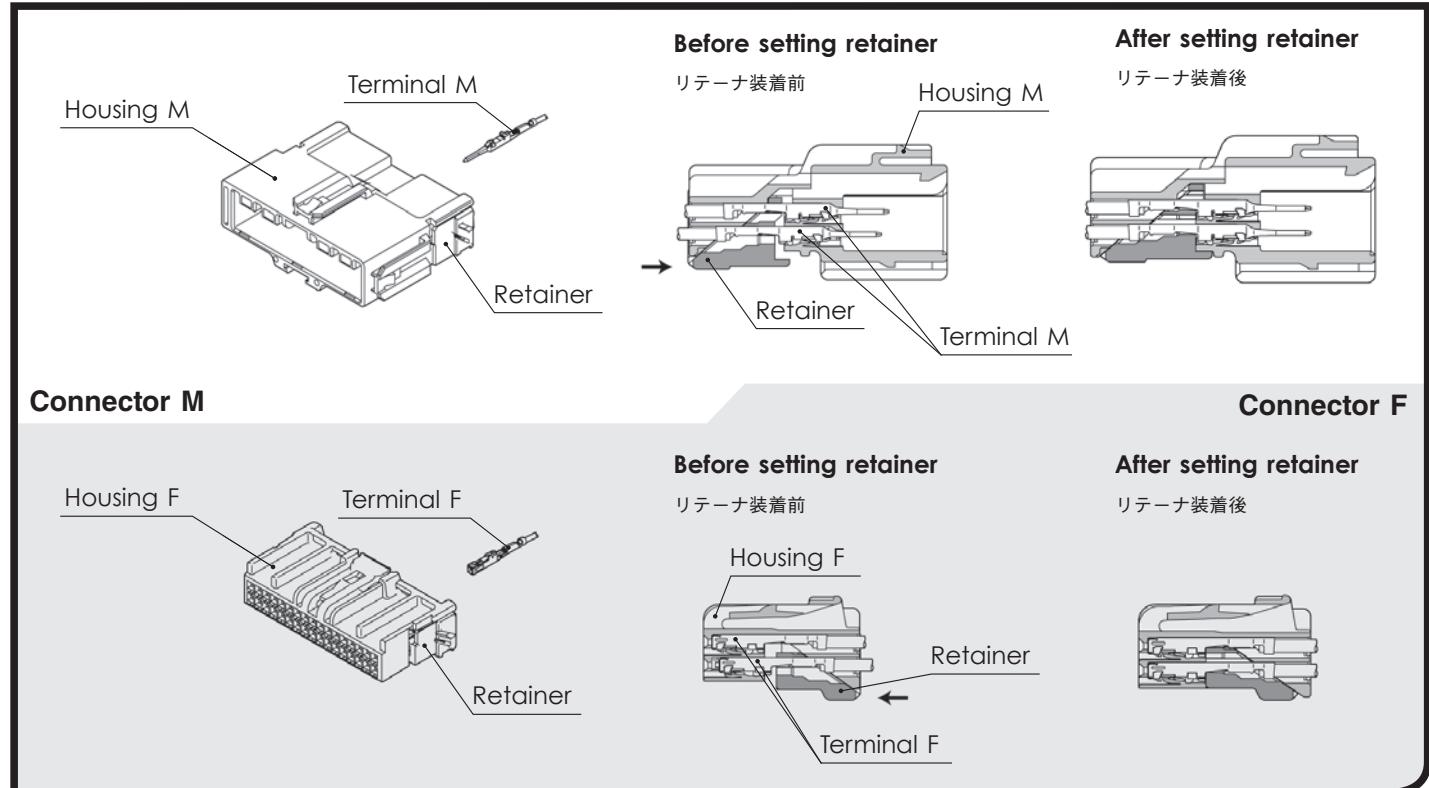
- 挿入不足のターミナルは、リテナーをセットすることにより正規の位置に固定されます。
- リテナーは、コネクタハウジングに予め組み付けられており、また極数に関係なく簡単な同一作業でセットすることができる構造になっているので、作業性が向上します。
- コネクタハウジングにはボディに固定するためのクランプ(クリップ)を装着することができ、更にコネクタ同士の連結が可能です。
- プリント基板との接続に適したPCBタイプも設定しました。
- RoHS/ELV対応

# HE SERIES for STANDARD

## 0.64mm (025)

Structure / 構造

C-02

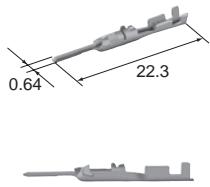


0.64mm (025)

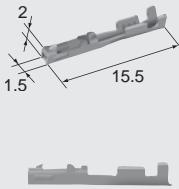
Terminal (UNIT : mm)

(S)

Cable size (mm <sup>2</sup> ) 適用電線サイズ	0.22~0.35
Cable overall diameter (mm) 電線仕上り外径	0.95~1.4
Material 材質	Brass 黄銅
Surface treatment 表面処理	Tin-plated Snメッキ

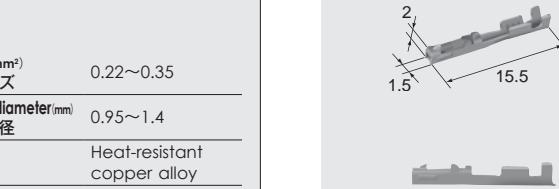


M (8100-4028)



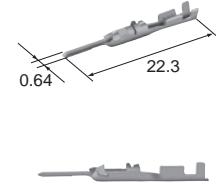
F (8100-4029)

Cable size (mm <sup>2</sup> ) 適用電線サイズ	0.22~0.35
Cable overall diameter (mm) 電線仕上り外径	0.95~1.4
Material 材質	Heat-resistant copper alloy
Surface treatment 表面処理	Tin-plated Snメッキ

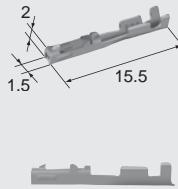


(M)

Cable size (mm <sup>2</sup> ) 適用電線サイズ	0.5~0.75
Cable overall diameter (mm) 電線仕上り外径	1.25~1.6
Material 材質	Brass 黄銅
Surface treatment 表面処理	Tin-plated Snメッキ



M (8100-4027)



F (8100-4030)

Cable size (mm <sup>2</sup> ) 適用電線サイズ	0.5~0.75
Cable overall diameter (mm) 電線仕上り外径	1.25~1.6
Material 材質	Heat-resistant copper alloy
Surface treatment 表面処理	Tin-plated Snメッキ

## 0.64mm (025)

### Housing (UNIT : mm)

Ref: Terminal part No.  
ターミナル参照頁

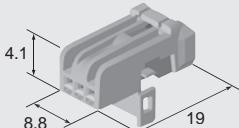
C-02

Material  
材質

PBT

### 3way

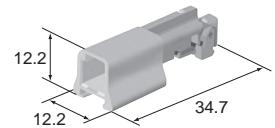
F (6098-5833)



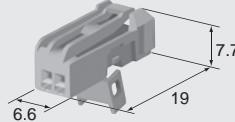
Color 色相	Natural 自然色
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### 2way

Color 色相	Natural 自然色
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M (6098-5070)

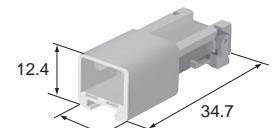


Color 色相	Natural 自然色
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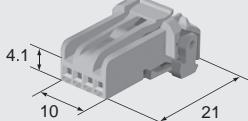
F (6098-5071)

### 4way

Color 色相	Natural 自然色
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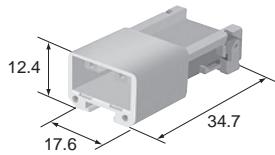
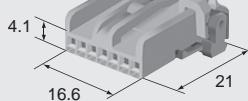
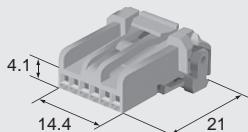
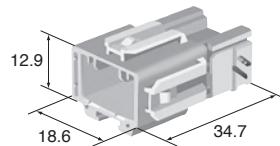
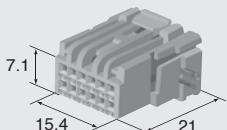
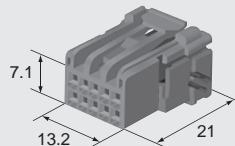
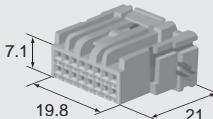
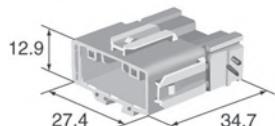
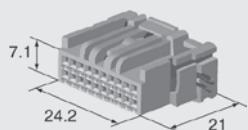
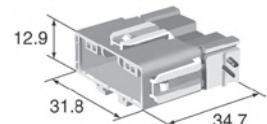
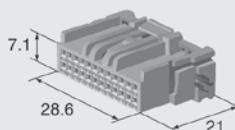


M (6098-4944)



Color 色相	Natural 自然色
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F (6098-4978)

**6way**Color  
色相Natural  
自然色**7way****F (6098-5000)**Color  
色相Natural  
自然色**C-04****M (6098-4943)****F (6098-4979)**Color  
色相Natural  
自然色**12way**Color  
色相Natural  
自然色**M (6098-4675)****F (6098-4640)**Color  
色相Natural  
自然色**10way**Color  
色相Natural  
自然色Color  
色相Green  
緑**M (6098-4333)****F (6098-4339)**Color  
色相Natural  
自然色**20way**Color  
色相Natural  
自然色**M (6098-4589)****F (6098-4595)**Color  
色相Natural  
自然色**24way**Color  
色相Natural  
自然色**M (6098-4588)****F (6098-4594)**Color  
色相Natural  
自然色

## 34way

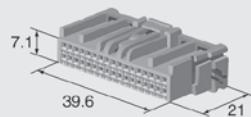
Color  
色相

Natural  
自然色



M (6098-4590)

F (6098-4596)



Color  
色相

Natural  
自然色

C-05

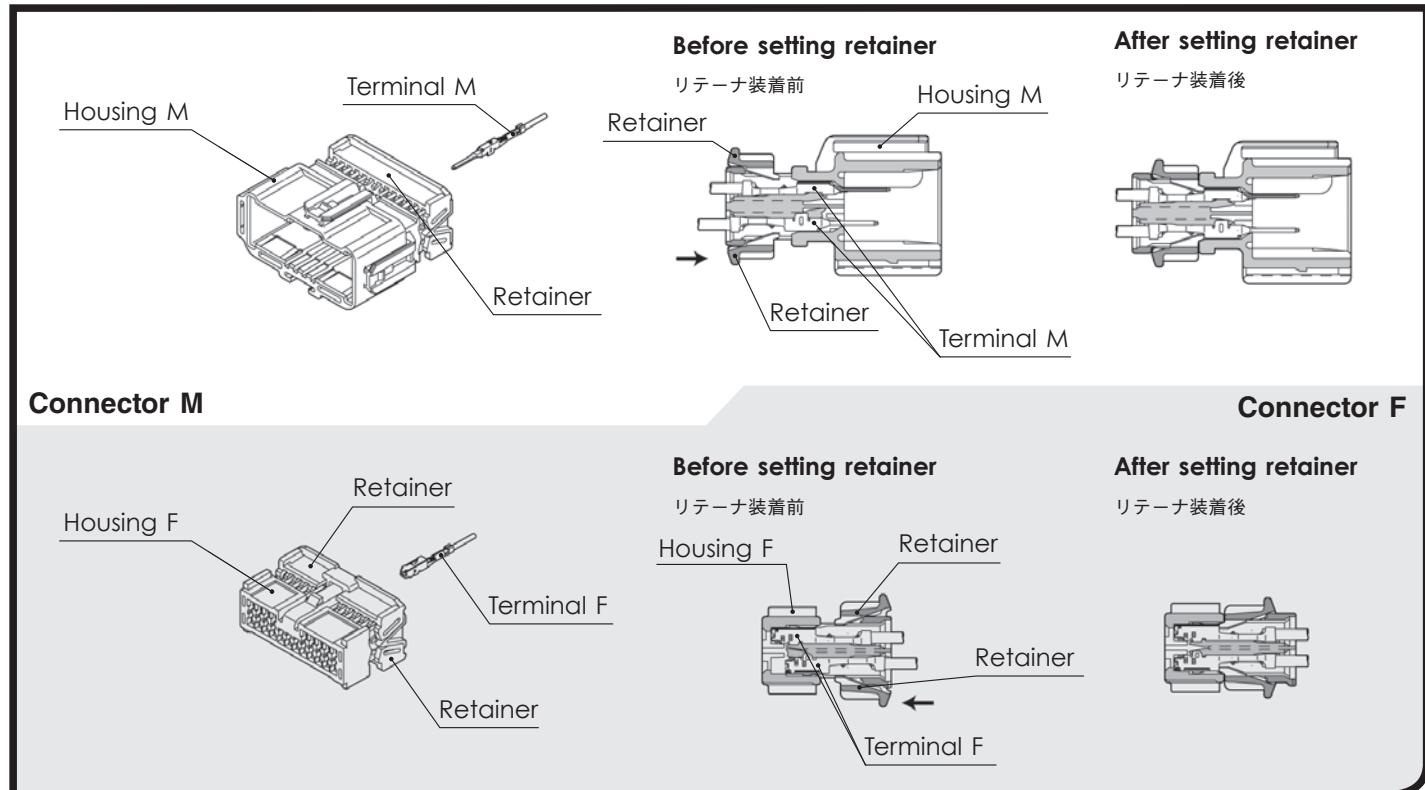
HE SERIES

# HE SERIES for STANDARD

## 1.0mm(040)

### Structure / 構造

C-06



1.0mm (040)

Terminal (UNIT : mm)

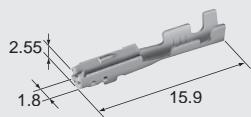
## (SS)

Cable size (mm <sup>2</sup> ) 適用電線サイズ	0.22~0.35
Cable overall diameter (mm) 電線仕上り外径	0.95~1.1
Material 材質	Brass 黄銅
Surface treatment 表面処理	Tin-plated Snメッキ



M (8100-4307)

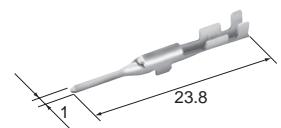
F (8100-4308)



Cable size (mm <sup>2</sup> ) 適用電線サイズ	0.22~0.35
Cable overall diameter (mm) 電線仕上り外径	0.95~1.1
Material 材質	Heat-resistant copper alloy
Surface treatment 表面処理	Tin-plated Snメッキ

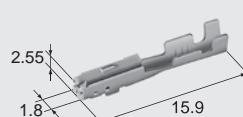
## (S)

Cable size (mm <sup>2</sup> ) 適用電線サイズ	0.3~0.85
Cable overall diameter (mm) 電線仕上り外径	1.4~1.8
Material 材質	Brass 黄銅
Surface treatment 表面処理	Tin-plated Snメッキ



M (8100-2972)

F (8100-2971)



Cable size (mm <sup>2</sup> ) 適用電線サイズ	0.3~0.85
Cable overall diameter (mm) 電線仕上り外径	1.4~1.8
Material 材質	Heat-resistant copper alloy
Surface treatment 表面処理	Tin-plated Snメッキ

## 1.0mm (040)

## Housing (UNIT : mm)

Ref: Terminal part No.  
ターミナル参照頁

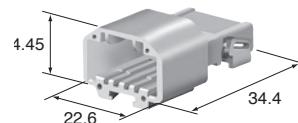
C-06

Material  
材質

PBT

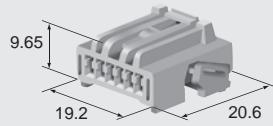
## 6way

Color 色相	Natural 自然色
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M (6098-2780)

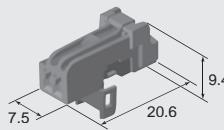
F (6098-2781)



Color 色相	Natural 自然色
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## 2way

F (6098-5888)

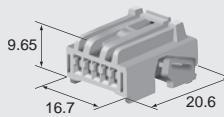


Color  
色相

Light Gray  
淡灰

## 5way

F (6098-2779)

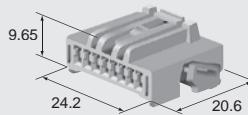


Color  
色相

Natural  
自然色

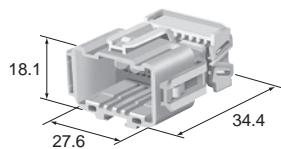
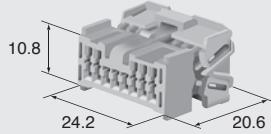
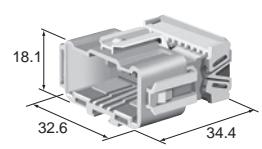
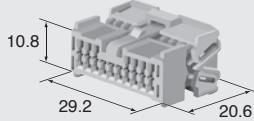
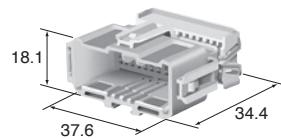
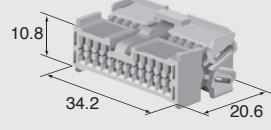
## 8way

F (6098-2782)



Color  
色相

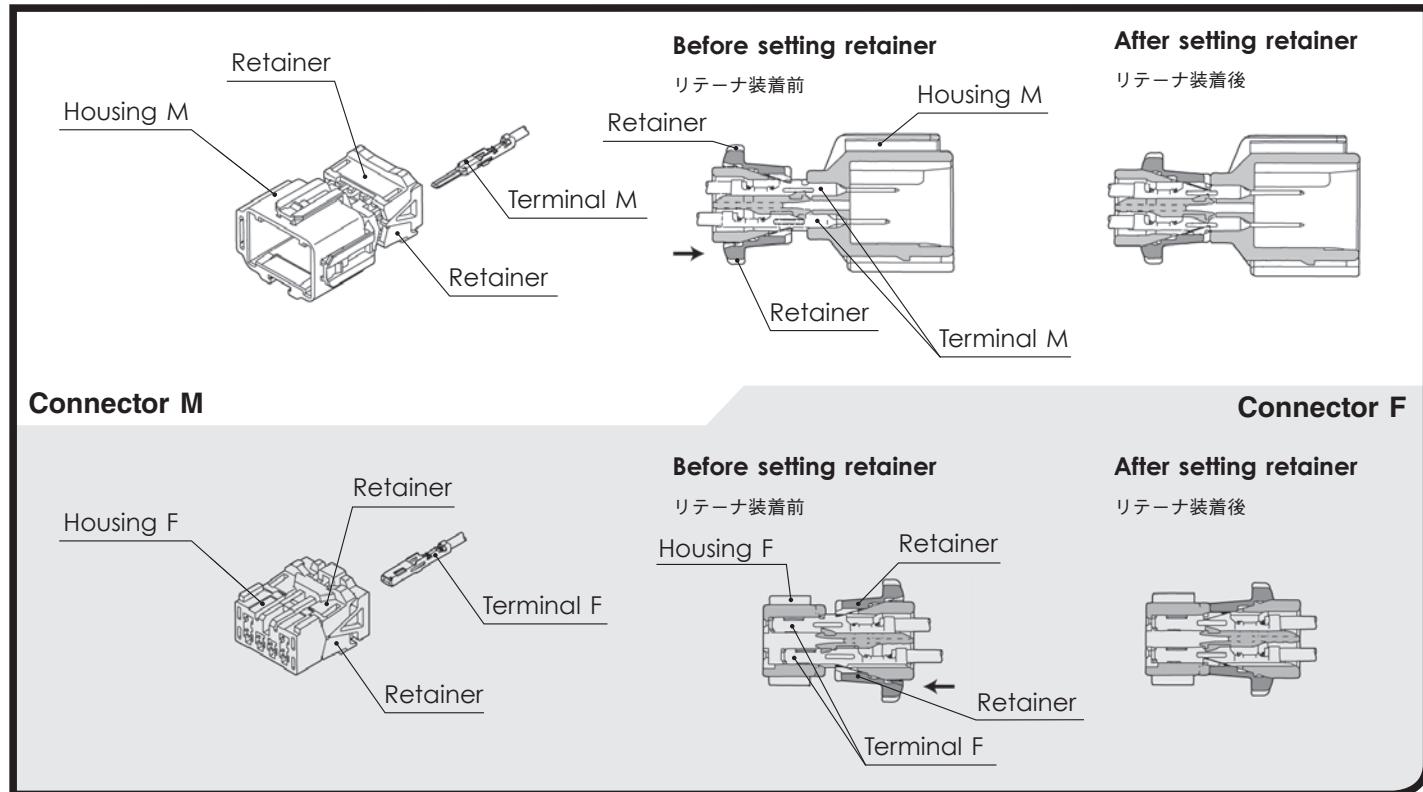
Natural  
自然色

**13way**Color  
色 相Natural  
自然色**F (6098-2784)****C-08 M (6098-2788)**Color  
色 相Natural  
自然色**17way**Color  
色 相Natural  
自然色**F (6098-2785)****M (6098-3369)**Color  
色 相Natural  
自然色**21way**Color  
色 相Natural  
自然色**F (6098-2764)****M (6098-2789)**Color  
色 相Natural  
自然色

# HE SERIES for STANDARD

## 2.3mm(090)

### Structure / 構造



### 2.3mm (090)

### Terminal (UNIT: mm)

#### (S)

Cable size (mm <sup>2</sup> ) 適用電線サイズ	0.3~0.5
Cable overall diameter (mm) 電線仕上り外径	1.4~2.1
Material 材質	Brass 黄銅
Surface treatment 表面処理	Tin-plated Snメッキ



M (8100-1571)



F (8100-1470)

Cable size (mm <sup>2</sup> ) 適用電線サイズ	0.3~0.5
Cable overall diameter (mm) 電線仕上り外径	1.4~2.1
Material 材質	Brass 黄銅
Surface treatment 表面処理	Tin-plated Snメッキ

## (M)

Cable size (mm <sup>2</sup> ) 適用電線サイズ	0.5~1.25
Cable overall diameter (mm) 電線仕上り外径	2.0~2.9
Material 材質	Brass 黄銅
Surface treatment 表面処理	Tin-plated Snメッキ



## (L)

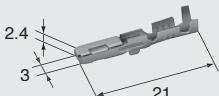
Cable size (mm <sup>2</sup> ) 適用電線サイズ	2.0
Cable overall diameter (mm) 電線仕上り外径	2.6~3.1
Material 材質	Brass 黄銅
Surface treatment 表面処理	Tin-plated Snメッキ



C-10

M (8100-1573)

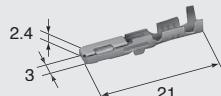
F (8100-1472)



Cable size (mm <sup>2</sup> ) 適用電線サイズ	0.5~1.25
Cable overall diameter (mm) 電線仕上り外径	2.0~2.9
Material 材質	Brass 黄銅
Surface treatment 表面処理	Tin-plated Snメッキ

M (8100-1572)

F (8100-1471)



Cable size (mm <sup>2</sup> ) 適用電線サイズ	2.0
Cable overall diameter (mm) 電線仕上り外径	2.6~3.1
Material 材質	Heat-resistant copper alloy
Surface treatment 表面処理	Tin-plated Snメッキ

2.3mm (090)

## Housing (UNIT : mm)

Ref: Terminal part No.  
ターミナル参照頁

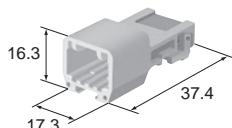
C-09

Material  
材質

PBT

## 3way

Color 色相	Natural 自然色
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M (6098-5049)

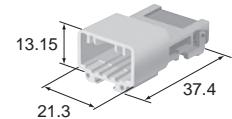
F (6098-4071)



Color 色相	Natural 自然色
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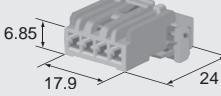
## 4way

Color 色相	Natural 自然色
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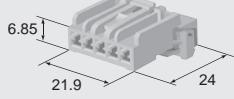
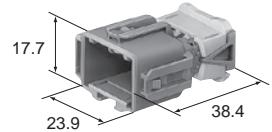
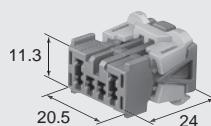
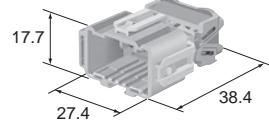
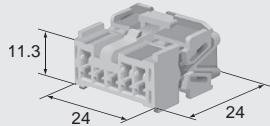
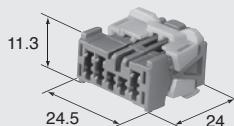
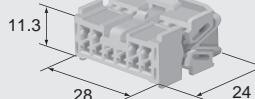
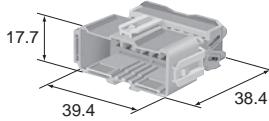
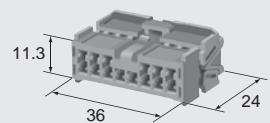
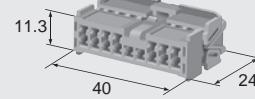
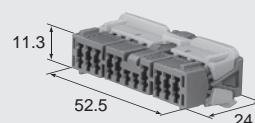


M (6098-4902)

F (6098-4073)



Color 色相	Natural 自然色
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**5way**Color  
色相Natural  
自然色**M (6098-4664)**Color  
色相Natural  
自然色**6way**Color  
色相Sky Blue  
空色**M (6098-1373)****F (6098-1377)**Color  
色相Sky Blue  
空色**8way**Color  
色相Natural  
自然色**M (6098-4661)**Color  
色相Natural  
自然色**8way****F (6098-1378)**Color  
色相Green  
緑**10way****F (6240-5378)**Color  
色相Natural  
自然色**14way**Color  
色相Natural  
自然色**M (6098-4662)**Color  
色相Natural  
自然色**16way****F (6098-3563)**Color  
色相Natural  
自然色**20way****F (6098-1380)**Color  
色相Green  
緑

# HE SERIES for STANDARD

## 4.8mm(187)

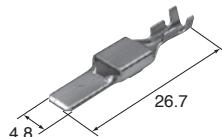
C-12

### 4.8mm(187)

#### Terminal (UNIT : mm)

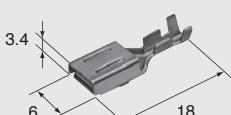
##### (M)

<b>Cable size (mm<sup>2</sup>)</b> 適用電線サイズ	0.5~1.25
<b>Cable overall diameter(mm)</b> 電線仕上り外径	1.6~2.9
<b>Material</b> 材質	Brass 黄銅
<b>Surface treatment</b> 表面処理	Tin-plated Snメッキ



M (8100-0664)

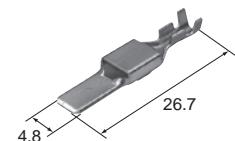
F (8100-0606)



<b>Cable size (mm<sup>2</sup>)</b> 適用電線サイズ	0.5~1.25
<b>Cable overall diameter(mm)</b> 電線仕上り外径	1.6~2.9
<b>Material</b> 材質	Heat-resistant copper alloy
<b>Surface treatment</b> 表面処理	Tin-plated Snメッキ

##### (S)

<b>Cable size (mm<sup>2</sup>)</b> 適用電線サイズ	0.3
<b>Cable overall diameter(mm)</b> 電線仕上り外径	1.4~1.9
<b>Material</b> 材質	Brass 黄銅
<b>Surface treatment</b> 表面処理	Tin-plated Snメッキ

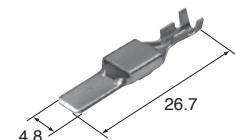


M (8100-1506)

F (8100-1507)

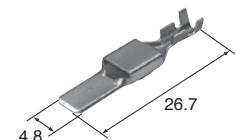


<b>Cable size (mm<sup>2</sup>)</b> 適用電線サイズ	0.3
<b>Cable overall diameter(mm)</b> 電線仕上り外径	1.4~1.9
<b>Material</b> 材質	Heat-resistant copper alloy
<b>Surface treatment</b> 表面処理	Tin-plated Snメッキ



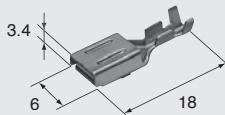
##### (L)

<b>Cable size (mm<sup>2</sup>)</b> 適用電線サイズ	2.0~3.0
<b>Cable overall diameter(mm)</b> 電線仕上り外径	2.6~3.8
<b>Material</b> 材質	Brass 黄銅
<b>Surface treatment</b> 表面処理	Tin-plated Snメッキ



M (1500-0166)

F (8100-0782)



<b>Cable size (mm<sup>2</sup>)</b> 適用電線サイズ	2.0~3.0
<b>Cable overall diameter(mm)</b> 電線仕上り外径	2.6~3.8
<b>Material</b> 材質	Heat-resistant copper alloy
<b>Surface treatment</b> 表面処理	Tin-plated Snメッキ

## 4.8mm (187)

### Housing (UNIT : mm)

Ref: Terminal part No.  
ターミナル参照頁

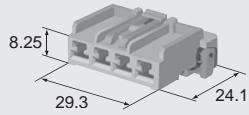
C-13

Material  
材 質

PBT

### 4way

F (6098-4971)



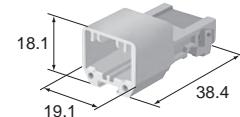
Color  
色 相

Natural  
自然色

### 2way

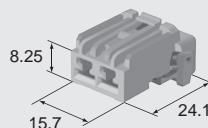
Color  
色 相

Natural  
自然色



M (6098-5120)

F (6098-5119)



Color  
色 相

Natural  
自然色

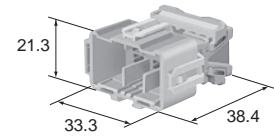
C-13

HE SERIES

### 5way

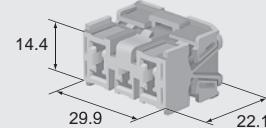
Color  
色 相

Natural  
自然色



M (6098-4663)

F (6098-4667)



Color  
色 相

Natural  
自然色



Sumitomo Wiring Systems, Ltd.

# HE SERIES for STANDARD

## 9.5mm (375)

C-14

**9.5mm (375)**

**Terminal** (UNIT : mm)

(S)

F (8240-0152)	
Cable size (mm <sup>2</sup> ) 適用電線サイズ	2.0~3.0
Cable overall diameter (mm) 電線仕上り外径	2.6~4.1
Material 材質	Copper alloy 銅合金
Surface treatment 表面処理	Tin-plated Snメッキ

(M)

F (8240-0153)	
Cable size (mm <sup>2</sup> ) 適用電線サイズ	5.0~8.0
Cable overall diameter (mm) 電線仕上り外径	4.4~5.8
Material 材質	Heat-resistant copper alloy 耐熱銅合金
Surface treatment 表面処理	Tin-plated Snメッキ

(L)

F (8240-0154)	
Cable size (mm <sup>2</sup> ) 適用電線サイズ	10.0
Cable overall diameter (mm) 電線仕上り外径	6.5~6.9
Material 材質	Heat-resistant copper alloy 耐熱銅合金
Surface treatment 表面処理	Tin-plated Snメッキ

**9.5mm (375)**

**Housing** (UNIT : mm)

Ref: Terminal part No.  
ターミナル参照頁

C-15

Material  
材質

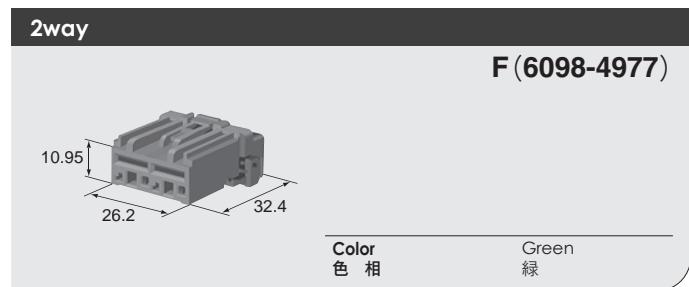
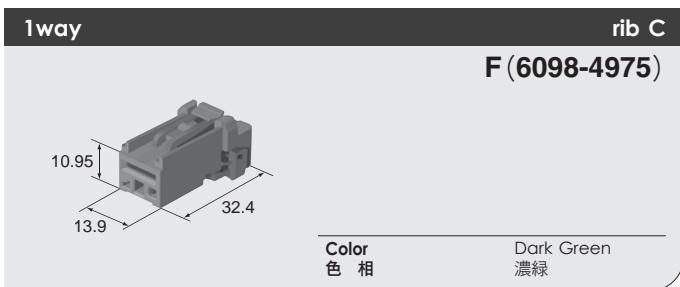
PBT

1way

rib A	
F (6098-4973)	
Color 色相	Natural 自然色

1way

rib B	
F (6098-4974)	
Color 色相	Black 黒



C-15

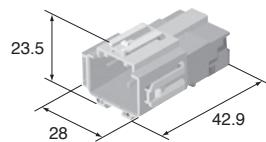
HE SERIES

# HE SERIES for HYBRID

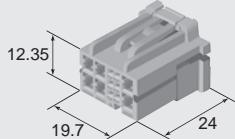
## 12way (6+6)

Color  
色相

Natural  
自然色



M (6098-6161)



Color  
色相

Natural  
自然色

F (6098-6162)

Natural  
自然色

**0.64mm, 2.3mm  
(025, 090)**

## Housing (UNIT : mm)

Ref: Terminal part No.  
ターミナル参照頁

[0.64mm] C-02  
[2.3mm] C-09

Material

材質

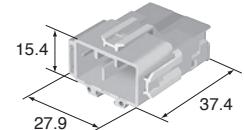
PBT

No. of way/ ( ) corresponds to 0.64mm, 2.3mm, in order from left to right.  
極数／( ) 内表示：左から0.64mm 極数、2.3mm 極数

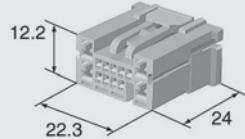
## 13way (9+4)

Color  
色相

Natural  
自然色



M (6098-5180)



Color  
色相

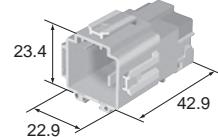
Natural  
自然色

F (6098-6562)

## 18way (9+9)

Color  
色相

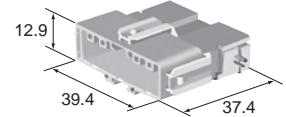
Natural  
自然色



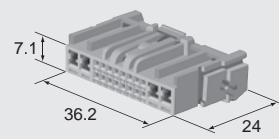
## 20way (16+4)

Color  
色相

Natural  
自然色



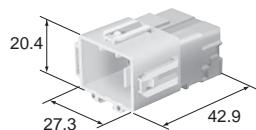
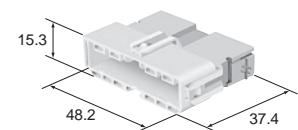
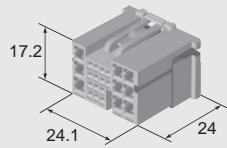
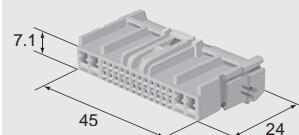
M (6098-4591)



Color  
色相

Natural  
自然色

F (6098-4597)

**23way (14+9)**Color  
色 相Natural  
自然色**28way (24+4)**Color  
色 相Natural  
自然色**M (6098-4707)**Color  
色 相**F (6098-6559)**Natural  
自然色**M (6098-4725)**Color  
色 相**F (6098-4726)**Natural  
自然色**C-17**

HE SERIES

## 1.0mm, 2.3mm (040, 090)

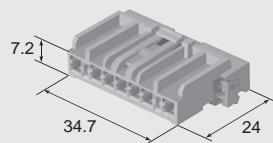
### Housing (UNIT : mm)

<b>Ref: Terminal part No.</b>	[1.0mm]	C-06
<b>ターミナル参照頁</b>	[2.3mm]	C-09
<b>Material</b>	PBT	

No. of way/ ( ) corresponds to 1.0mm, 2.3mm, in order from left to right.  
極数／( ) 内表示：左から1.0mm 極数、2.3mm 極数

### 9way (2+7)

F (6098-4075)

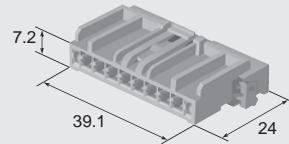


Color  
色 相

Natural  
自然色

### 10way (2+8)

F (6098-4076)

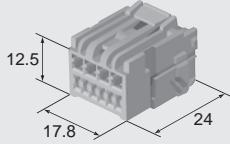


Color  
色 相

Natural  
自然色

### 10way (6+4)

F (6098-4666)

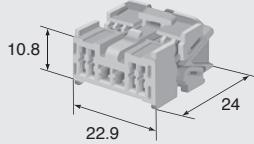


Color  
色 相

Natural  
自然色

### 10way (8+2)

F (6098-3600)

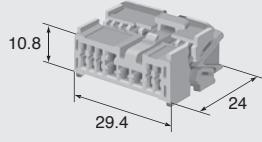


Color  
色 相

Natural  
自然色

### 14way (10+4)

F (6098-3601)

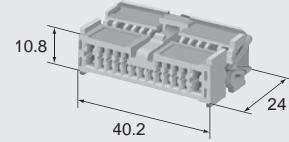


Color  
色 相

Natural  
自然色

### 23way (19+4)

F (6098-3571)

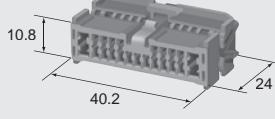


Color  
色 相

Natural  
自然色

### 23way (19+4)

F (6098-4367)



Color  
色 相

Brown  
茶

# 1.0mm, 4.8mm (040, 187)

## Housing (UNIT : mm)

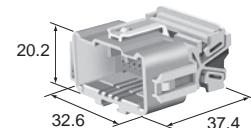
Ref: Terminal part No.	[1.0mm]	C-06
ターミナル参照頁	[4.8mm]	C-13
Material 材質	PBT	

No. of way/ ( ) corresponds to 1.0mm, 4.8mm, in order from left to right.  
極数／( ) 内表示：左から1.0mm 極数、4.8mm 極数

## 12way(10+2)

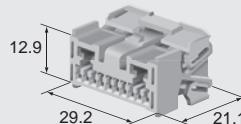
Color  
色相

Natural  
自然色



## M (6098-3370)

## F (6098-2786)

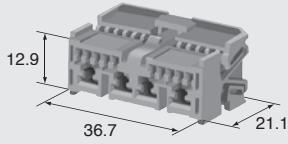


Color  
色相

Natural  
自然色

## 14way(10+4)

## F (6098-4017)



Color  
色相

Natural  
自然色

## 2.3mm, 4.8mm (090, 187)

### Housing (UNIT : mm)

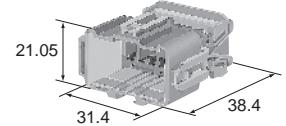
Ref: Terminal part No.	[2.3mm]	C-09
ターミナル参照頁	[4.8mm]	C-13
Material 材質	PBT	

No. of way/ ( ) corresponds to 2.3mm, 4.8mm, in order from left to right.  
極数／( ) 内表示：左から2.3mm 極数、4.8mm 極数

### 8way (6+2)

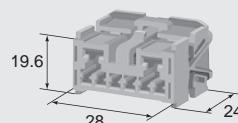
Color  
色相

Natural  
自然色



M (6098-5218)

F (6098-5217)



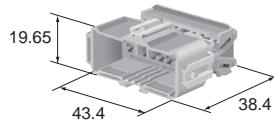
Color  
色相

Natural  
自然色

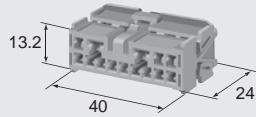
### 14way (12+2)

Color  
色相

Natural  
自然色



M (6098-4660)



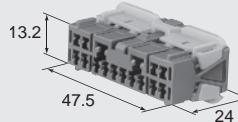
Color  
色相

Natural  
自然色

F (6098-3565)

### 16way (14+2)

F (6950-1054)

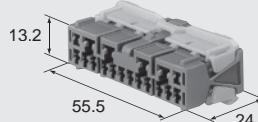


Color  
色相

Green  
緑

### 18way (14+4)

F (6950-1055)



Color  
色相

Green  
緑

### 20way (16+4)

F (6950-1056)



Color  
色相

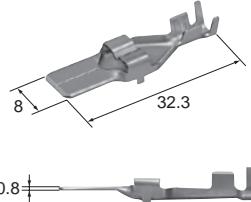
Green  
緑

## 8.0mm (312)

### Terminal (UNIT : mm)

#### (M)

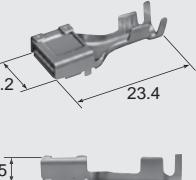
Cable size (mm <sup>2</sup> ) 適用電線サイズ	2.0~3.0
Cable overall diameter (mm) 電線仕上り外径	2.6~4.1
Material 材質	Brass 黄銅
Surface treatment 表面処理	Tin-plated Snメッキ



#### M (8100-0521)

#### F (8100-0706)

Cable size (mm <sup>2</sup> ) 適用電線サイズ	2.0~3.0
Cable overall diameter (mm) 電線仕上り外径	2.6~4.1
Material 材質	Brass 黄銅
Surface treatment 表面処理	Tin-plated Snメッキ



## 4.8mm, 8.0mm (187, 312)

### Housing (UNIT : mm)

Ref: Terminal part No.  
ターミナル参照頁

[4.8mm] C-13  
[8.0mm] C-21

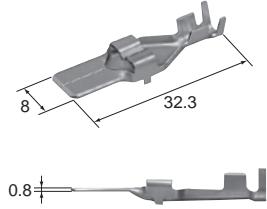
Material  
材質

PBT

No. of way / ( ) corresponds to 4.8mm, 8.0mm, in order from left to right.  
極数 / ( ) 内表示: 左から4.8mm 極数、8.0mm 極数

#### (S)

Cable size (mm <sup>2</sup> ) 適用電線サイズ	0.5~1.25
Cable overall diameter (mm) 電線仕上り外径	1.6~2.9
Material 材質	Brass 黄銅
Surface treatment 表面処理	Tin-plated Snメッキ



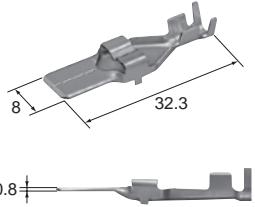
#### M (8100-0520)

#### F (8100-0707)

Cable size (mm <sup>2</sup> ) 適用電線サイズ	0.5~1.25
Cable overall diameter (mm) 電線仕上り外径	1.6~2.9
Material 材質	Brass 黄銅
Surface treatment 表面処理	Tin-plated Snメッキ

#### (L)

Cable size (mm <sup>2</sup> ) 適用電線サイズ	5.0~8.0
Cable overall diameter (mm) 電線仕上り外径	4.4~5.8
Material 材質	Brass 黄銅
Surface treatment 表面処理	Tin-plated Snメッキ



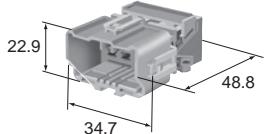
#### M (8100-0522)

#### F (8100-1553)

Cable size (mm <sup>2</sup> ) 適用電線サイズ	5.0~8.0
Cable overall diameter (mm) 電線仕上り外径	4.4~5.8
Material 材質	Heat-resistant copper alloy
Surface treatment 表面処理	Tin-plated Snメッキ

#### 6way (4+2)

Color 色相	Natural 自然色
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#### M (6098-3567)

#### F (6098-3569)

Color 色相	Natural 自然色
Color 色相	Natural 自然色

# HE SERIES for PCB

1.0mm (040)

## Housing (UNIT : mm)

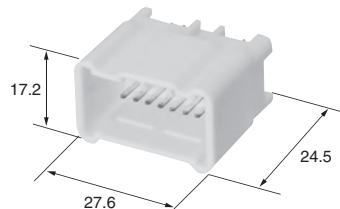
**Material**  
材質

PBT G30

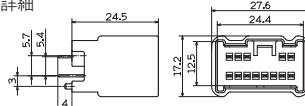
13way

M (6098-3239)

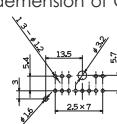
Connector F part No.  
Fコネクタ品番 6098-2784(C-08)  
Color  
色相 Natural  
自然色



●Detailed dimension  
寸法詳細



●Recommended demension of Circuit board  
基板推奨寸法



1.0mm, 2.3mm  
(040, 090)

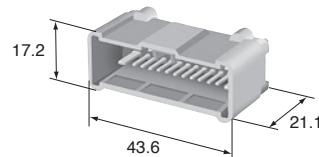
## Housing (UNIT : mm)

**Material**  
材質 PBT G30

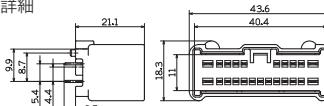
23way

M (6098-3572)

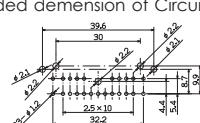
Connector F part No.  
Fコネクタ品番 6098-3571(C-19)  
Color  
色相 Natural  
自然色



●Detailed dimension  
寸法詳細



●Recommended demension of Circuit board  
基板推奨寸法



# 1.0mm, 4.8mm (040, 187)

C-23

HE SERIES

## Housing (UNIT : mm)

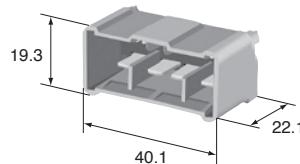
Material  
材 質

PBT G30

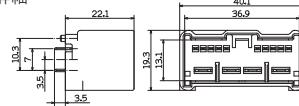
14way

M (6098-4018)

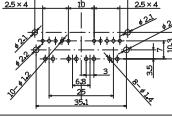
Connector F part No.  
Fコネクタ品番 6098-4017(C-20)  
Color  
色 相 Natural  
自然色



●Detailed dimension  
寸法詳細



●Recommended demension of Circuit board  
基板推奨詳細



## 2.3mm (090)

## Housing (UNIT : mm)

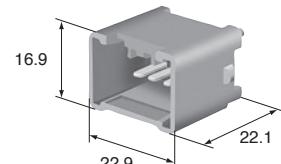
Material  
材 質

PBT G30

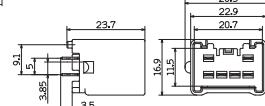
6way

M (6098-3616)

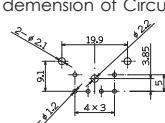
Connector F part No.  
Fコネクタ品番 6098-1377(C-11)  
Color  
色 相 Sky Blue  
空色



●Detailed dimension  
寸法詳細



●Recommended demension of Circuit board  
基板推奨詳細

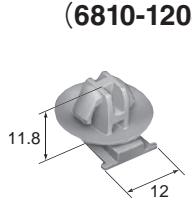


# HE SERIES COMMON USE PARTS

Clamp fitting hole size(mm) 適合穴サイズ	$\phi 7$
Clamp fitting thickness(mm) クランプ適合板厚	$t=0.65\sim 1.6$
Material 材質	6 Nylon
Color 色相	Red 赤



Clamp fitting hole size(mm) 適合穴サイズ	$\phi 10$
Clamp fitting thickness(mm) クランプ適合板厚	$t=0.65\sim 1.6$
Material 材質	6 Nylon
Color 色相	Natural 自然色



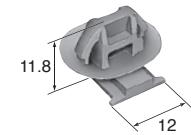
## Body fastening clamp (mm)

The clamp can be installed to connector M, if necessary, to fasten into the body side hole.  
Mコネクタには、ボディ側の穴に固定するためのクランプを必要に応じて取付けることができます。

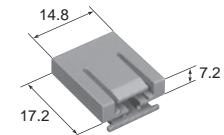
Clamp fitting hole size(mm) 適合穴サイズ	$\phi 7$
Clamp fitting thickness(mm) クランプ適合板厚	$t=1.6\sim 2.6$
Material 材質	6 Nylon
Color 色相	Brown 茶



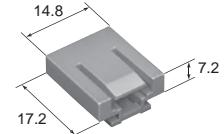
Clamp fitting hole size(mm) 適合穴サイズ	6×12 (Square hole)
Clamp fitting thickness(mm) クランプ適合板厚	$t=0.65\sim 1.6$
Material 材質	6 Nylon
Color 色相	Orange 橙



Bracket direction プラケット差込み方向	Connector mating direction コネクタ嵌合方向
Material 材質	6 Nylon
Color 色相	Red 赤



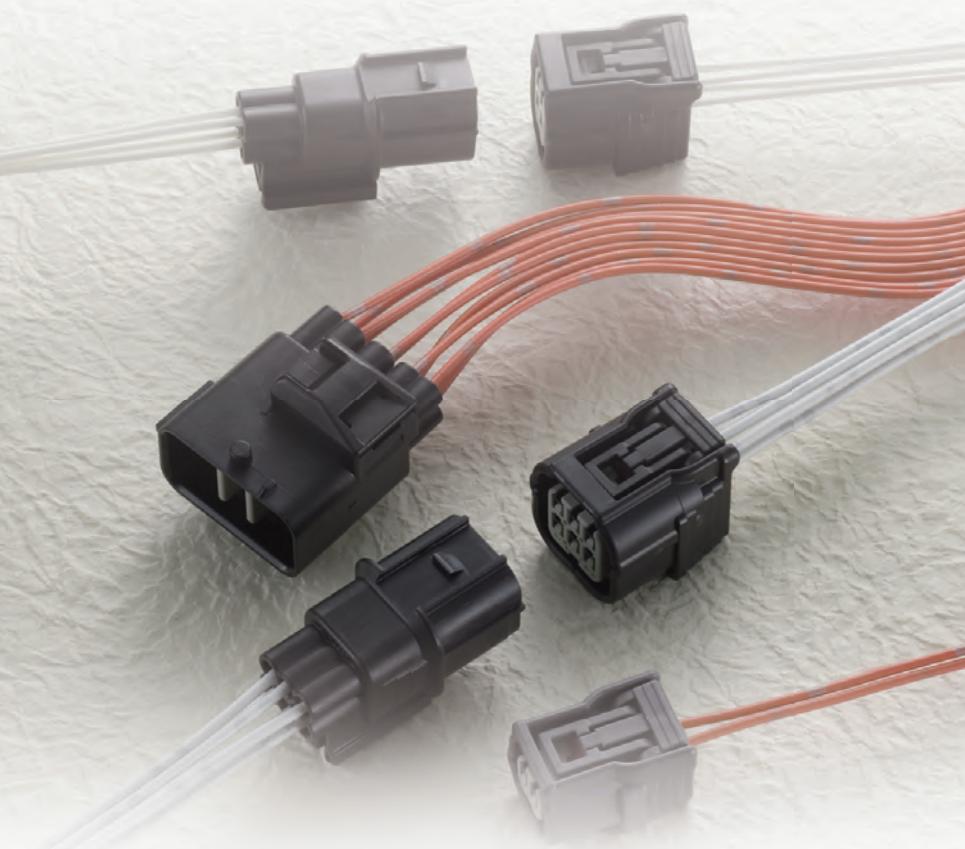
Bracket direction プラケット差込み方向	Anti clock wise コネクタ嵌合の逆方向
Material 材質	6 Nylon
Color 色相	Natural 自然色



## Body fastening clamp (Bracket type) (mm)

Connector M can be accoupled with clamp, if necessary, to fasten to the body side bracket.  
Mコネクタには、ボディ側のブラケットに固定するためのクランプを必要に応じて取付けることができます。

# HV/HVG SEALED SERIES



## Features

The HV sealed connector series is an improved version of the existing HX sealed connector series and it is a highly reliable connector series.

Also the HVG sealed series is what is added a finger holding portion to the side wall of the female connector of the HV sealed series so as to improving matting performance. It has a mechanism that detects terminal incomplete insertion.

- The connector mechanism only allows the retainer to be set when the terminal is completely inserted.
- These connectors can be directly secured to a bracket on the car body.
- RoHS/ELV Compliant

## 特長

HV 防水シリーズは、従来の HX 防水シリーズを改良し、信頼性を向上させたコネクタシリーズです。また、HVG 防水シリーズは、HV 防水シリーズの F コネクタの側壁に指掛け部を追加し、コネクタ挿入作業性を向上させたものです。

挿入不足のターミナルを検知する機構を備えています。

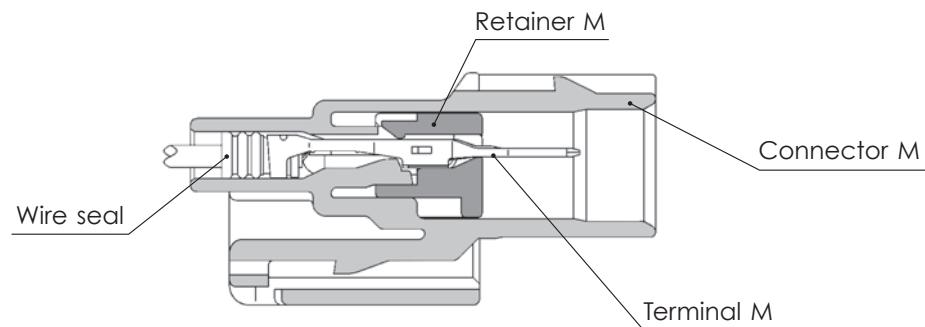
- ターミナルが半挿入の状態では、リテーナが装着できない機構になっています。
- コネクタは、ボディ側のブラケットに直接固定することができます。
- RoHS／ELV 対応

# HV/HVG SEALED SERIES for STANDARD

## 1.0mm(040)

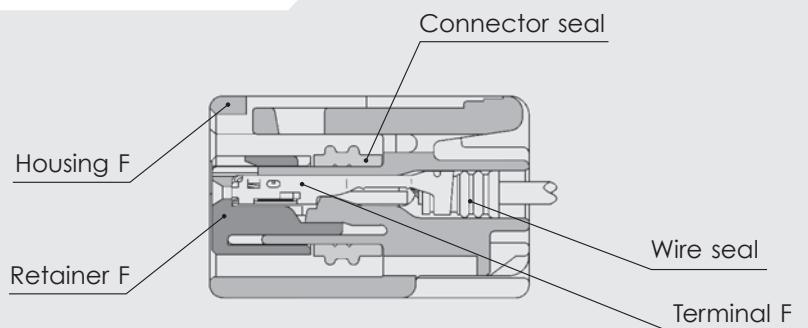
Structure／構造

D-02



**Connector M**

**Connector F**



1.0mm(040)

1.0mm(040)

### Terminal (UNIT : mm)

Ref; 1.0mm Terminal detail

1.0mmターミナル参照頁

**S M(8100-3177)** E-02 **F(8100-3067)** E-02

**M M(8100-3178)** E-02 **F(8100-3068)** E-02

### Wire seals (UNIT : mm)

Ref; 1.0mm Wire Seals detail

1.0mmワイヤシール掲載頁

**SS(7165-1075)** E-03

**S(7165-0621)** E-03

**M(7165-0622)** E-03

The wire seals are common to M and F.

ワイヤシールはM、F共用です。

# 1.0mm (040)

## Dummy plugs (UNIT : mm)

Ref; 1.0mm Dummy plug detail

1.0mmダミー栓掲載頁

(7165-0432) E-04

D-03

- Dummy plugs are common to M and F.
- Dummy plugs are used to blind unused terminal holes.
- ダミー栓は M、F 共用です。
- 不必要なターミナル穴を塞ぐために、ダミー栓を使用します。

# 1.0mm (040)

## Housing (UNIT : mm)

Ref: Terminal part No.  
ターミナル参照頁

E-02

Ref: wire seal No.  
ワイヤーシール参照頁

E-03

Ref: Dummy plug No.  
ダミー栓参照頁

E-04

Material  
材質

PBT

### 2way

F (6189-7036)



Retainer No.(6918-1835)

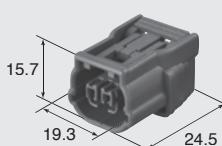
Color  
色相

Black  
黒

### 2way

(Rib difference) (リブ違)

F (6189-7052)



Retainer No.(6918-1835)

Color  
色相

Dark Gray  
濃灰

### 3way

(Rib difference) (リブ違)

F (6189-7058)



Retainer No.(6918-1833)

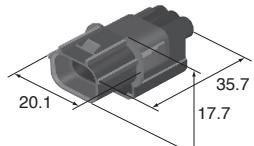
Color  
色相

Dark Gray  
濃灰

### 3way

Color  
色相

Black  
黒



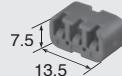
### 3way

M (6188-4775)

F (6189-7037)



NOTE1)



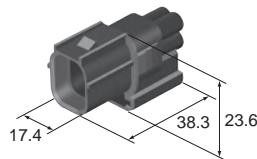
Retainer No.(6918-1833)

Color  
色相

Black  
黒

#### 4way

Color  
色相 Black 黒



Black  
黒

#### 5way

**F (6189-6909)**



NOTE1) Retainer No.(6918-2128)

Color  
色相

Black  
黒

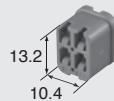
**M (6188-4776)**



NOTE1)

21.4  
19.3  
26.1

**F (6189-7039)**

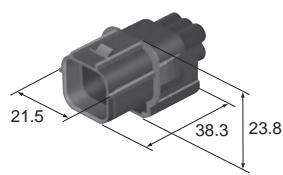


Retainer No.(6918-2810)

Color  
色相 Black 黒

#### 6way

Color  
色相 Black 黒



Black  
黒

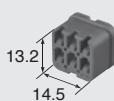
**M (6188-4908)**



NOTE1)

21.4  
23.4  
26.1

**F (6189-7040)**

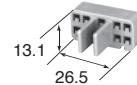


Retainer No.(6918-2913)

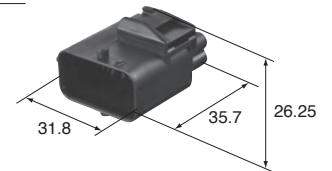
Color  
色相 Black 黒

#### 10way

Color  
色相 Black 黒

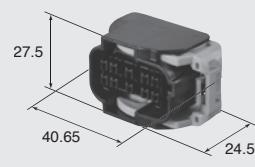


Black  
黒



Retainer No.(6918-2804)

**F (6189-6906)**



Retainer No.(6918-2806)

Color  
色相

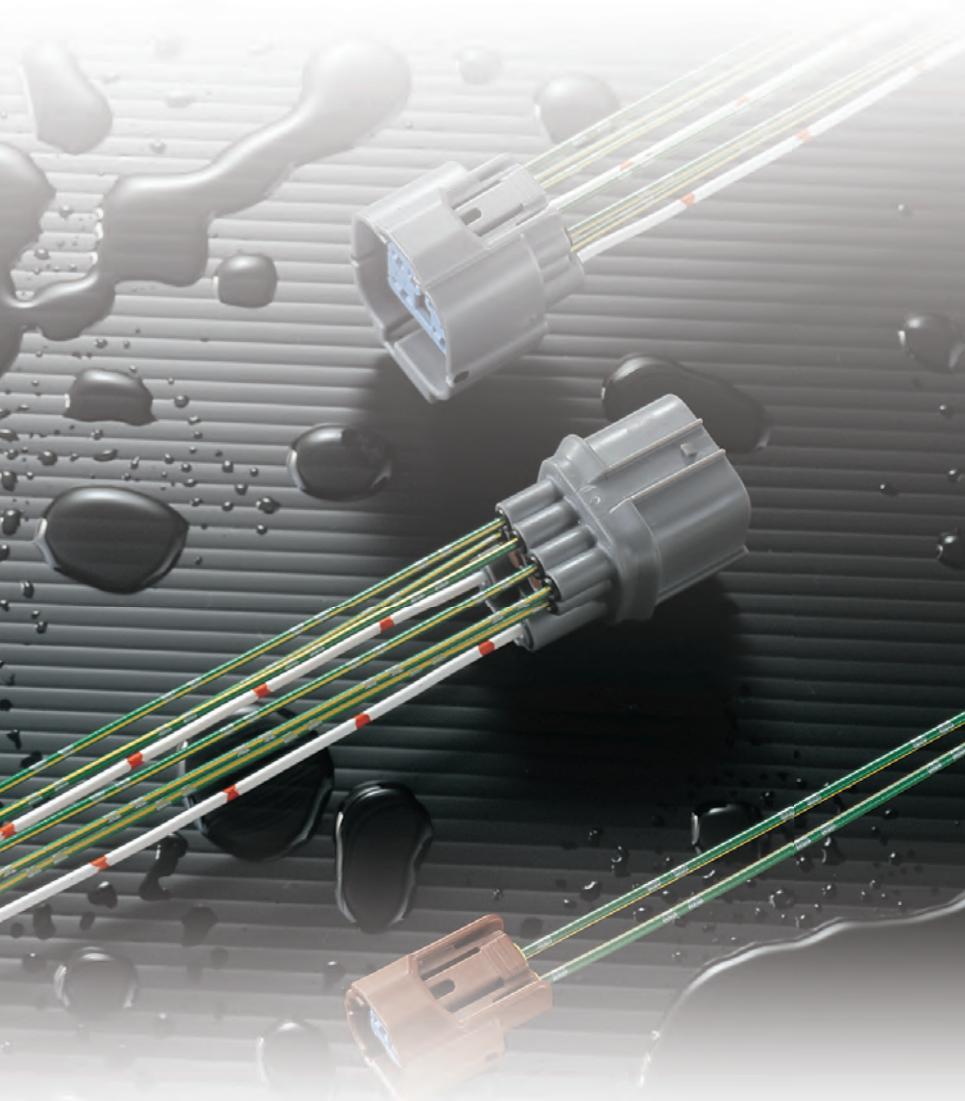


Black  
黒

NOTE1) HV SEALED SERIES

D-04

# HX SEALED SERIES



## Features

The HX sealed connector series is the highly reliable improved version of the conventional HW sealed series, with a mechanism that detects when terminals are not inserted completely.

This series consists of 1.0mm・1.5mm・2.3mm types (0.64mm・1.0mm・1.5mm・2.3mm・4.8mm types for the hybrid model) classified according to terminal size, supporting use in a variety of control circuits and low power circuits.

- The connector mechanism only allows the retainer to be set when the terminal is completely inserted.
- The hybrid model can be directly secured to a bracket on the car body, but this is only possible when the locking mechanism ensures the connectors are completely engaged, preventing semi-engagement.
- RoHS/ELV Compliant

## 特 長

HX 防水シリーズは、従来の HW 防水シリーズを改良し、信頼性を向上させたコネクタシリーズです。挿入不足のターミナルを検知する機構を備えています。

ターミナルサイズにより1.0mm・1.5mm・2.3mm(ハイブリッドは0.64mm・1.0mm・1.5mm・2.3mm・4.8mm)で構成されており、各種の制御回路並びに低パワー回路に対応することができます。

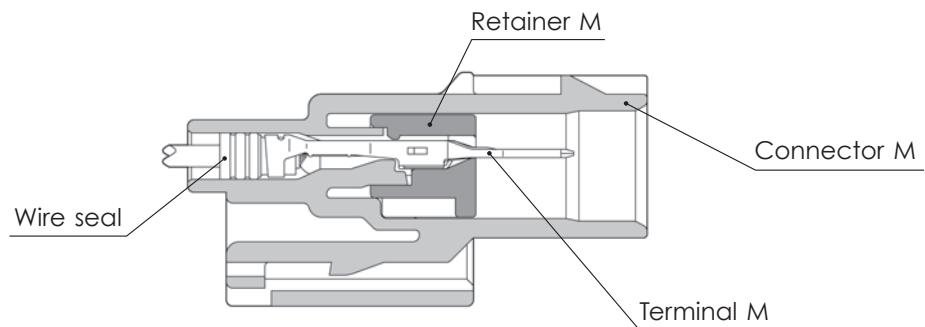
- ターミナルが半挿入の状態では、リテーナが装着できない機構になっています。
- ハイブリッドタイプのコネクタは、完全に嵌合した状態でないと、ボディ側のブラケットに固定することができないロック構造になっています。
- ハイブリッドタイプのコネクタは、ボディ側のブラケットに直接固定することができます。
- RoHS／ELV 対応

# HX SEALED SERIES for STANDARD

1.0mm (040)

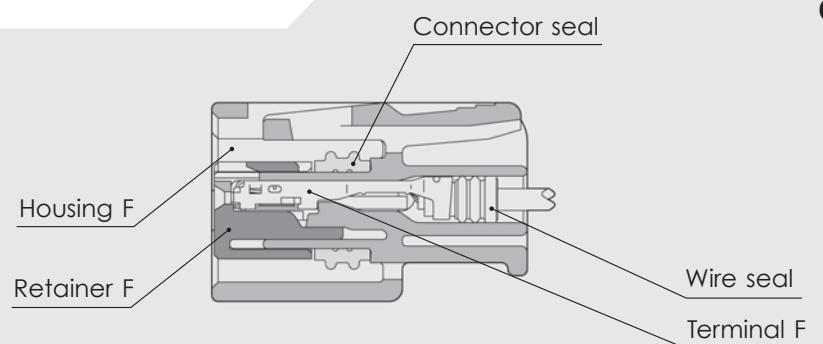
Structure / 構造

E-02



Connector M

Connector F

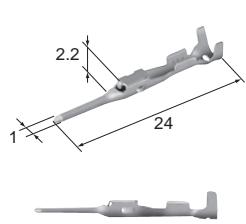


1.0mm (040)

Terminal (UNIT : mm)

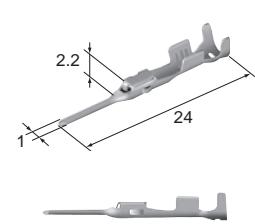
(S)

Cable size (mm <sup>2</sup> ) 適用電線サイズ	0.3~0.5
Cable overall diameter (mm) 電線仕上り外径	1.4~2.0
Material 材質	Brass 黄銅
Surface treatment 表面処理	Tin-plated Snメッキ

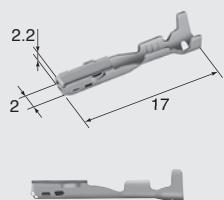


(M)

Cable size (mm <sup>2</sup> ) 適用電線サイズ	0.75~1.25
Cable overall diameter (mm) 電線仕上り外径	1.8~2.2
Material 材質	Heat-resistant copper alloy
Surface treatment 表面処理	Tin-plated Snメッキ



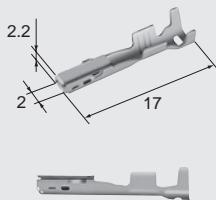
M (8100-3177)



F (8100-3067)

Cable size (mm <sup>2</sup> ) 適用電線サイズ	0.3~0.5
Cable overall diameter (mm) 電線仕上り外径	1.4~2.0
Material 材質	Heat-resistant copper alloy
Surface treatment 表面処理	Tin-plated Snメッキ

M (8100-3178)



F (8100-3068)

Cable size (mm <sup>2</sup> ) 適用電線サイズ	0.75~1.25
Cable overall diameter (mm) 電線仕上り外径	1.8~2.2
Material 材質	Heat-resistant copper alloy
Surface treatment 表面処理	Tin-plated Snメッキ

## 1.0mm (040)

### Wire seals (UNIT : mm)

The wire seals are common to M and F.

ワイヤーシールは M、F 共用です。

(S)

(7165-0621)

Cable size (mm <sup>2</sup> ) 適用電線サイズ	(AVS/0.3) (AVSS/0.5) (AVSSX/0.5) (AVSSH/0.5) (CHFS/0.75)
Cable overall diameter (mm) 電線仕上り外径	1.6~1.9
Material 材質	Silicon シリコン
Color 色相	Light Green 淡緑



(SS)

(7165-1075)

Cable size (mm <sup>2</sup> ) 適用電線サイズ	(AVSS/0.3) (AVSX/0.3) (AVSSH/0.35) (CHFUS/0.35) (CHFS/0.5)
Cable overall diameter (mm) 電線仕上り外径	1.1~1.6
Material 材質	Silicon シリコン
Color 色相	Orange 橙



(M)

(7165-0622)

Cable size (mm <sup>2</sup> ) 適用電線サイズ	(AVS/0.5) (AVS/0.85) (AVSS/0.75~1.25) (AVSSH/0.75~1.25) (AVX/0.5) (AVX/0.75) (CHFS/1.0)
Cable overall diameter (mm) 電線仕上り外径	1.8~2.2
Material 材質	Silicon シリコン
Color 色相	Violet 紫



## 1.0mm (040)

### Dummy plugs (UNIT : mm)

E-04

- Dummy plugs are common to M and F.
- Dummy plugs are used to blind unused terminal holes.
- ダミー栓はM、F共用です。
- 不必要なターミナル穴を塞ぐために、ダミー栓を使用します。

## 1.0mm (040)

### Housing (UNIT : mm)

Ref: Terminal part No.  
ターミナル参照頁

E-02

Ref: wire seal No.  
ワイヤーシール参照頁

E-03

Ref: Dummy plug No.  
ダミー栓参照頁

E-04

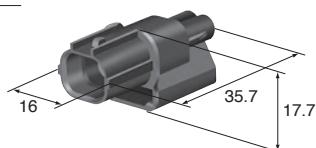
Material  
材質

PBT

### 2way

Color  
色相

Black  
黒



M (6188-0589)



Color  
色相

Black  
黒



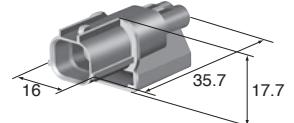
Retainer No.(6918-1835)

### 2way

Color  
色相

Dark Gray  
濃灰

### (Rib difference) (リブ違)



M (6188-0590)



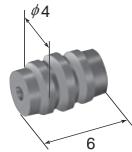
Color  
色相

Dark Gray  
濃灰



Retainer No.(6918-1835)

(7165-0432)

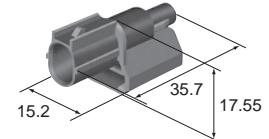


Material 材質	NBR
Color 色相	Black 黒

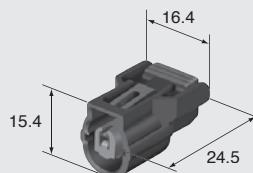
### 1way

Color  
色相

Black  
黒



M (6188-0657)



F (6189-0940)



Retainer No.(6918-1979)

Color  
色相

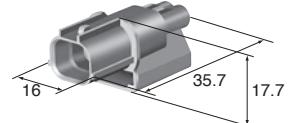
Black  
黒

### 2way

Color  
色相

Dark Gray  
濃灰

F (6189-0891)



M (6188-0590)



Color  
色相

Dark Gray  
濃灰



Retainer No.(6918-1835)

**3way**

Color  
色相 Black  
黒

**3way**

(Rib difference) (リブ違)

**F (6189-0968)**

Retainer No.(6918-1833)

Color  
色相 Black  
黒

**M (6188-4739)**

Color  
色相



Retainer No.(6918-1833)

Color  
色相 Black  
黒

**F (6189-0887)****5way****F (6189-1081)**

Retainer No.(6918-2128)

Color  
色相 Black  
黒

**6way**

Color  
色相 Black  
黒

**M (6188-0658)**

Color  
色相



Retainer No.(6918-2056)

Color  
色相 Black  
黒

**F (6189-1012)****7way****F (6189-0855)**

Retainer No.(6918-1762)

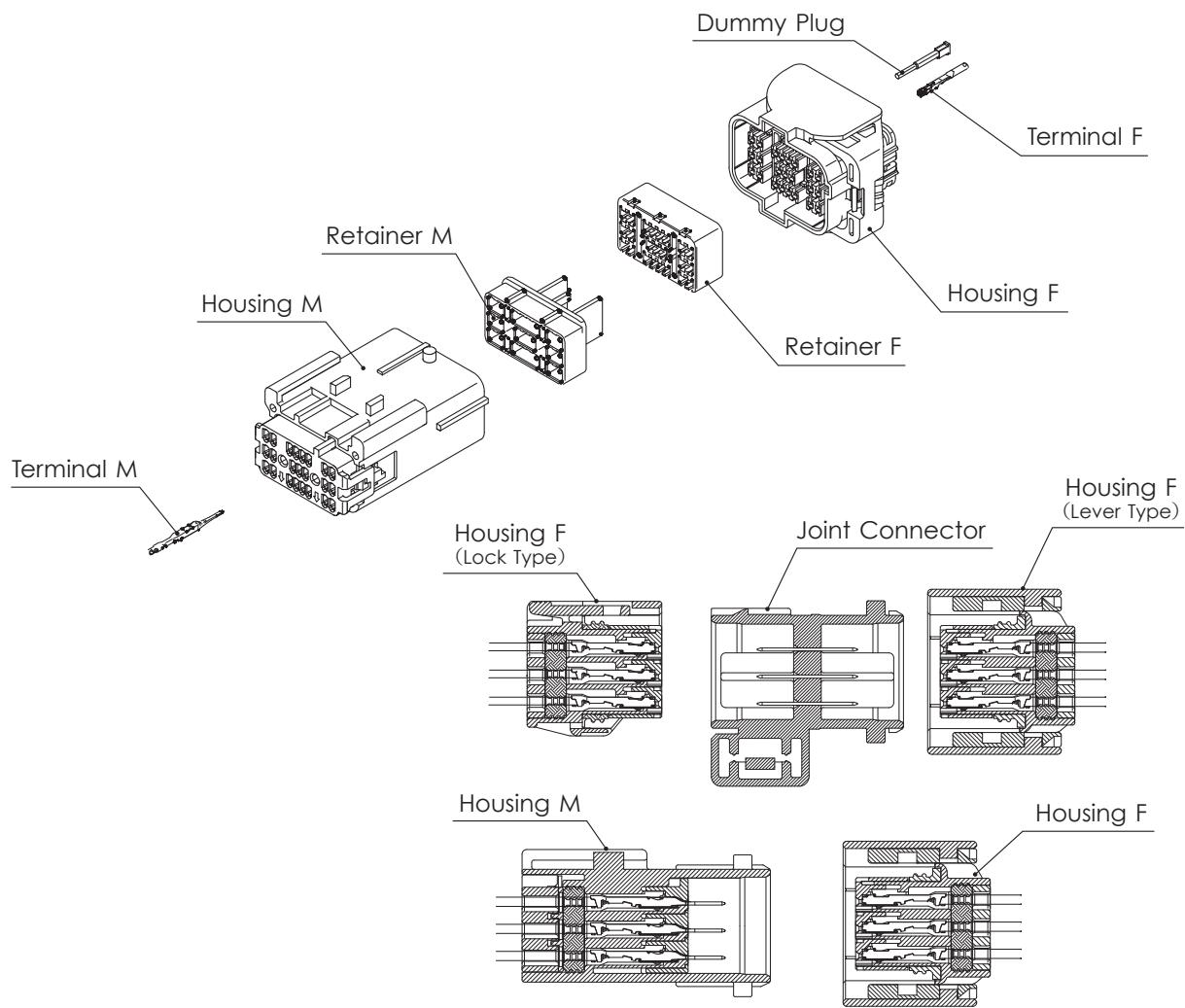
Color  
色相 Black  
黒

# HX SEALED SERIES

for 23way and 33way  
1.0mm (040)

Structure / 構造

E-06

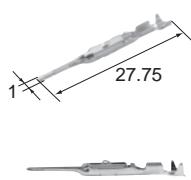


1.0mm (040)

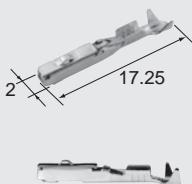
Terminal (UNIT : mm)

## (S)

Cable size (mm <sup>2</sup> ) 適用電線サイズ	0.3~0.5
Material 材質	Brass 黄銅
Surface treatment 表面処理	Tin-plated Snメッキ

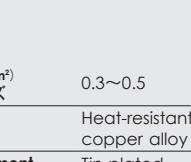


M (8100-3508)



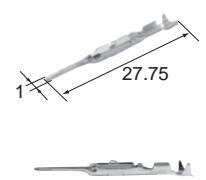
Cable size (mm <sup>2</sup> ) 適用電線サイズ	0.3~0.5
Material 材質	Heat-resistant copper alloy
Surface treatment 表面処理	Tin-plated Snメッキ

F (8100-3082)

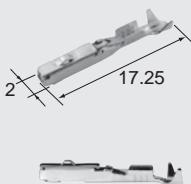


## (M)

Cable size (mm <sup>2</sup> ) 適用電線サイズ	0.75~1.25
Material 材質	Heat-resistant copper alloy
Surface treatment 表面処理	Tin-plated Snメッキ

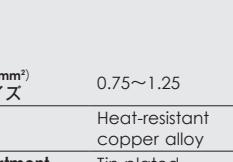


M (8100-3507)



Cable size (mm <sup>2</sup> ) 適用電線サイズ	0.75~1.25
Material 材質	Heat-resistant copper alloy
Surface treatment 表面処理	Tin-plated Snメッキ

F (8100-3083)



## 1.0mm (040)

## Dummy plugs (UNIT : mm)

- Dummy plugs are common to M and F.
- Dummy plugs are used to blind unused terminal holes.
- ダミー栓は M、F 共用です。
- 不必要なターミナル穴を塞ぐために、ダミー栓を使用します。

## 1.0mm (040)

## Housing (UNIT : mm)

Ref: Terminal part No.  
ターミナル参照頁

E-07

Ref: Dummy plug No.  
ダミー栓参照頁

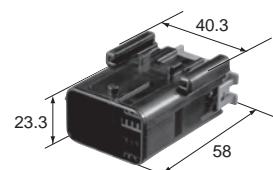
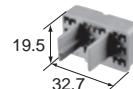
E-07

Material  
材質

PBT

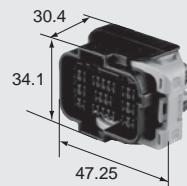
## 23way

Color 色相	Black 黒
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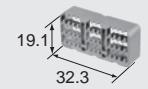


Retainer No. (6918-2131)

M (6188-0660)



F (6189-1082)

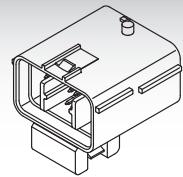


Retainer No. (6918-2132)

Color 色相	Black 黒
-------------	------------

# 23way

# Joint Connector

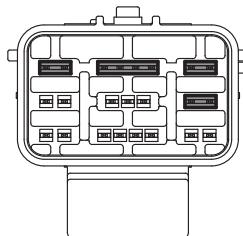
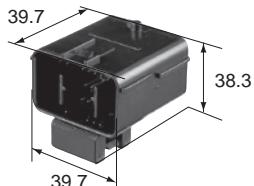


Coupling circuit is connected with busbars as shown gray hatched cavities.

## M (6188-4787)

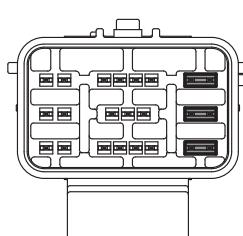
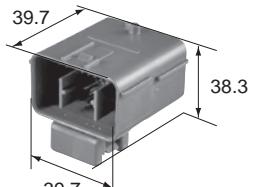
E-08

Color 色相 Black 黒



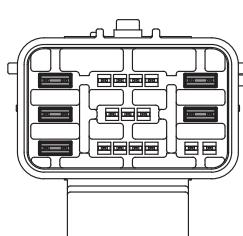
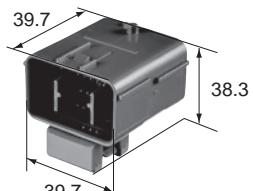
## M (6188-4789)

Color 色相 Dark Gray 濃灰



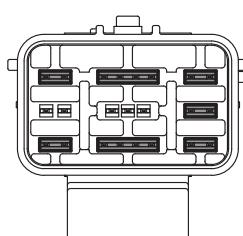
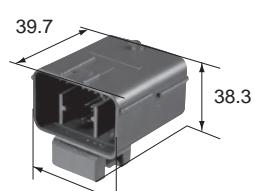
## M (5010-8627)

Color 色相 Dark Blue 濃青



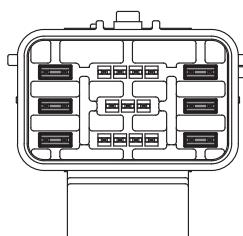
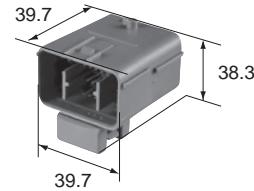
## M (5011-1590)

Color 色相 Brown 茶



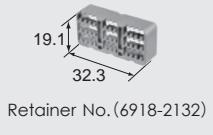
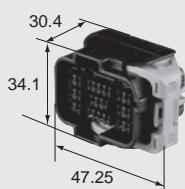
## M (5011-6687)

Color 色相 Blue 青



## F (6189-1082)

Lever

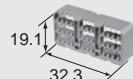
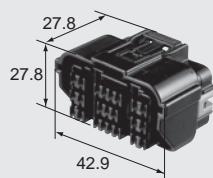


Color  
色相

Black  
黒

Lock

## F (6189-6914)



Color  
色相

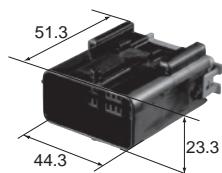
Black  
黒

**33way**

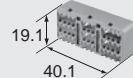
Color  
色相 Black 黒



Retainer No.(6918-2103)

**M (6188-0697)**

Color  
色相 Black 黒

**F (6189-1050)**

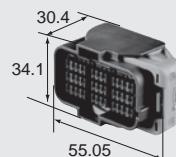
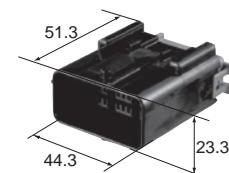
Retainer No.(6918-2104)

**33way**

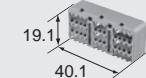
Color  
色相 Dark Gray 濃灰



Retainer No.(6918-2103)

**M (6188-0698)****(Rib difference) (リブ違)**

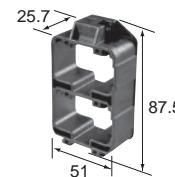
Color  
色相 Dark Gray 濃灰



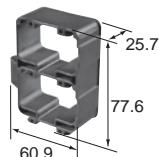
Retainer No.(6918-2104)

**F (6189-1051)****Bracket Holder****(6920-0886)**

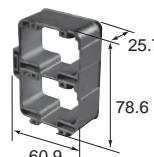
Color  
色相 Black 黒

**Bracket Holder****(6920-0861)**

Color  
色相 Black 黒

**Bracket Holder****(6920-2376)**

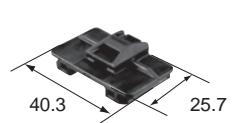
Color  
色相 Dark Blue 濃青

**Bracket Holder****(6920-2377)**

Color  
色相 Black 黒

**Bracket Holder****(6920-0884)**

Color  
色相 Black 黒

**Bracket Holder****(6920-2466)**

Color  
色相 Black 黒

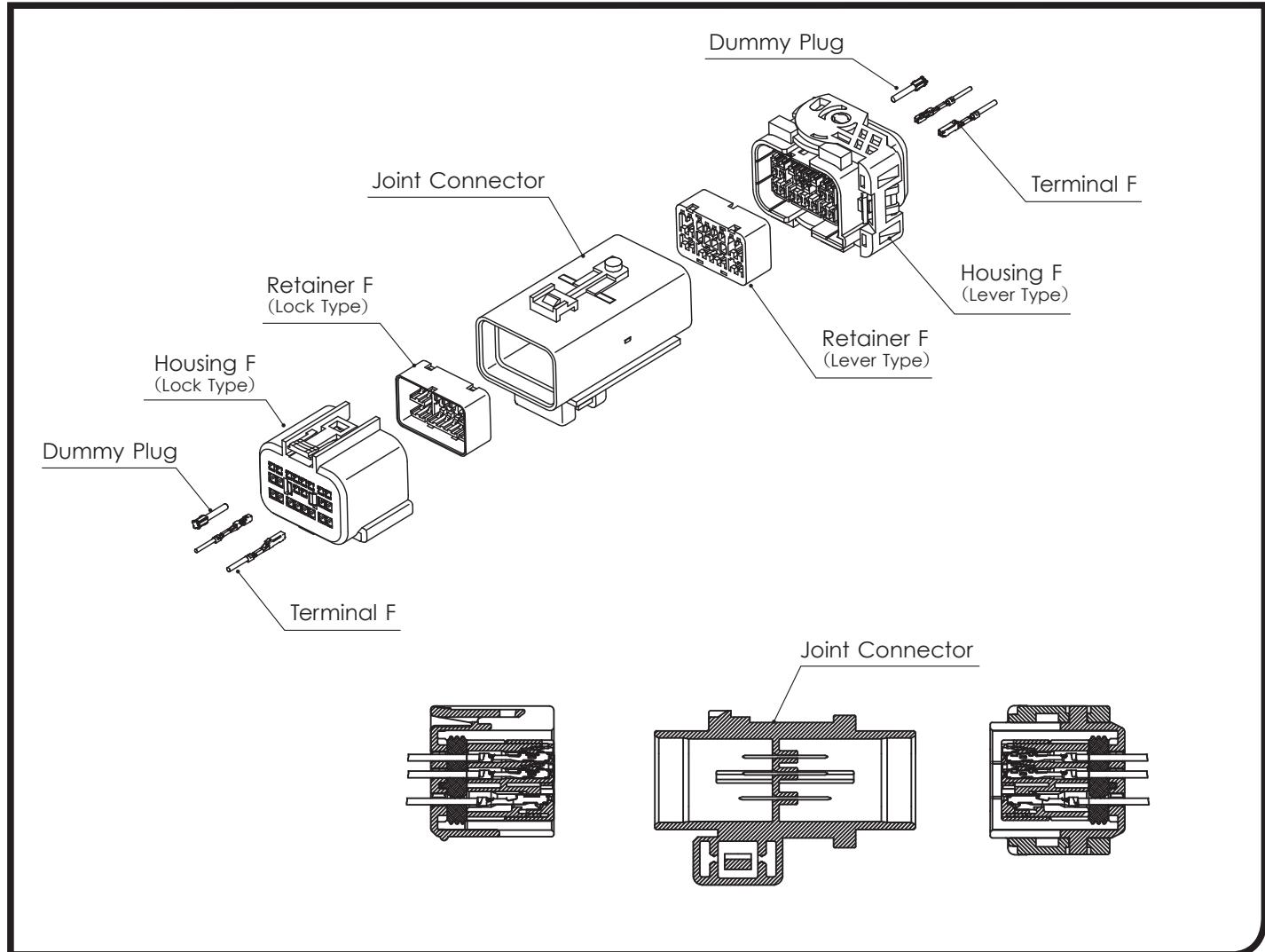
# HX SEALED SERIES

HYBRID 0.64mm, 1.0mm (025, 040)

22way Joint Connector

Structure / 構造

E-10



0.64mm (025)

Terminal (UNIT: mm)

(SS)

F(8240-0408)

Cable size (mm<sup>2</sup>)

適用電線サイズ

AVSSH0.22

Material

材質

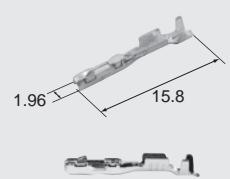
Heat-resistant copper alloy

Surface treatment

表面処理

Tin-plated

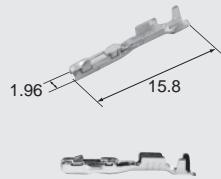
Snメッキ



(S)

F(8240-0409)

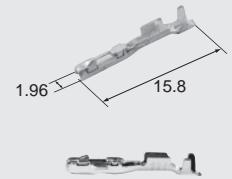
Cable size (mm <sup>2</sup> ) 適用電線サイズ	AVSSH0.3~0.5
Material 材質	Heat-resistant copper alloy
Surface treatment 表面処理	Tin-plated Snメッキ



(M)

F(8240-0410)

Cable size (mm <sup>2</sup> ) 適用電線サイズ	AVSSH0.75
Material 材質	Heat-resistant copper alloy
Surface treatment 表面処理	Tin-plated Snメッキ



## 1.0mm (040)

### Terminal (UNIT : mm)

## 0.64mm, 1.0mm (025,040)

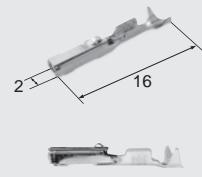
### Dummy plugs (UNIT : mm)

- Dummy plugs are common to M and F.
- Dummy plugs are used to blind unused terminal holes.
- ダミー栓は M、F 共用です。
- 不必要なターミナル穴を塞ぐために、ダミー栓を使用します。

(S)

F(8240-0411)

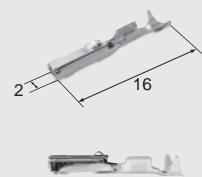
Cable size (mm <sup>2</sup> ) 適用電線サイズ	AVSSH0.3 ~ AVSSH0.5
Material 材質	Heat-resistant copper alloy
Surface treatment 表面処理	Tin-plated Snメッキ



(M)

F(8240-0412)

Cable size (mm <sup>2</sup> ) 適用電線サイズ	AVSSH0.75 ~ AVSSH1.25
Material 材質	Heat-resistant copper alloy
Surface treatment 表面処理	Tin-plated Snメッキ



(6914-0127)

Material 材質	PBT
Color 色相	Blue 青



# 0.64mm,1.0mm (025,040)

## Housing (UNIT : mm)

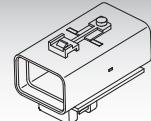
E-12

Ref: Terminal part No.	[0.64mm]	E-10
ターミナル参照頁	[1.0mm]	E-11
Ref: Dummy plug No.	[0.64mm]	E-11
ダミー栓参照頁	[1.0mm]	E-11

Material  
材質 PBT

## 22way (10+12)

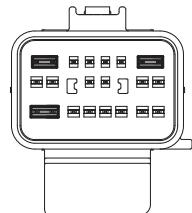
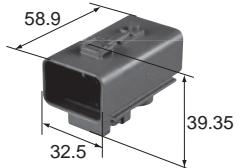
## Joint Connector



Coupling circuit is connected with busbars as shown gray hatched cavities.

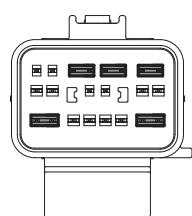
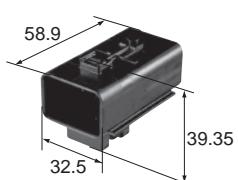
### M (5011-6818)

Color 色相 Brown 茶



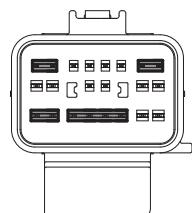
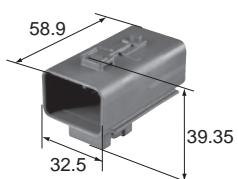
### M (5011-7740)

Color 色相 Black 黒

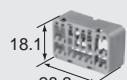
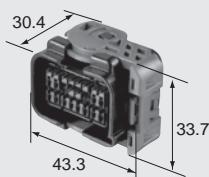


### M (5011-7860)

Color 色相 Dark Gray 濃灰



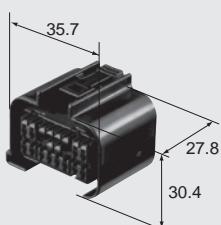
### F (6189-7264) Lever



Retainer No. (6918-3166)

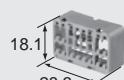
Color 色相

Black 黒



### Lock

### F (6189-7263)



Retainer No. (6918-3166)

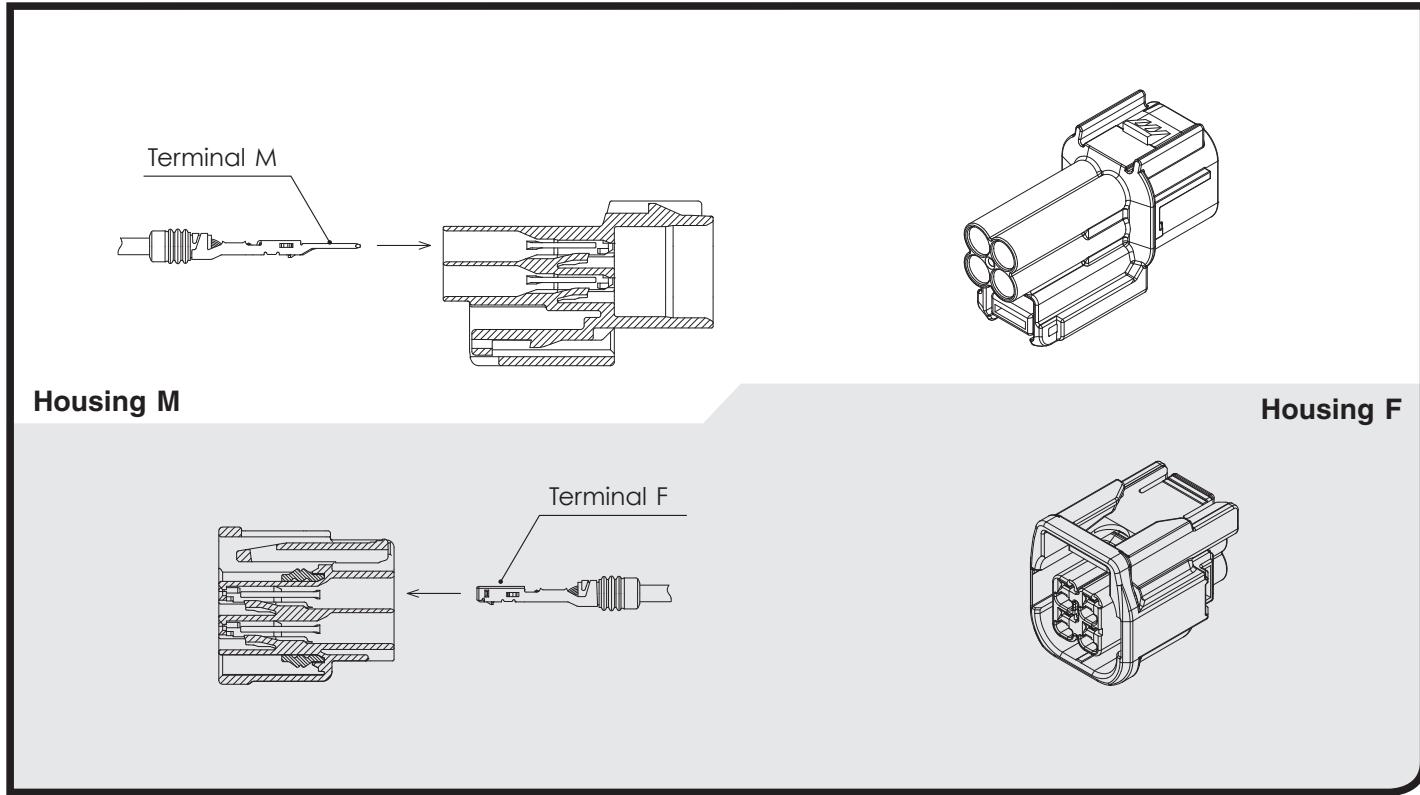
Color 色相

Black 黒

# HX SEALED SERIES for STANDARD

## 1.5mm (060)

Structure / 構造

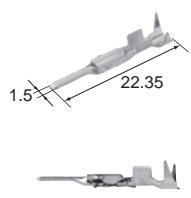
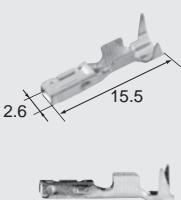


1.5mm (060)

Terminal (UNIT : mm)

## (SS)

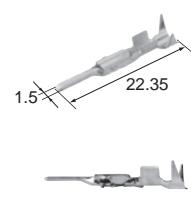
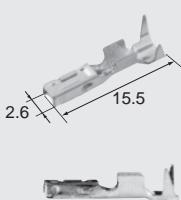
Cable size (mm <sup>2</sup> ) 適用電線サイズ	0.13~0.22
Material 材質	Brass 黄銅
Surface treatment 表面処理	Tin-plated Snメッキ

**M (8230-5306)****F (8240-0489)**

Cable size (mm <sup>2</sup> ) 適用電線サイズ	0.13~0.22
Material 材質	Heat-resistant copper alloy
Surface treatment 表面処理	Tin-plated Snメッキ

## (S)

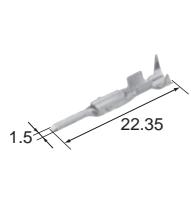
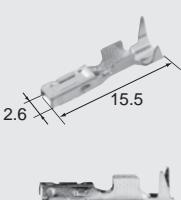
Cable size (mm <sup>2</sup> ) 適用電線サイズ	0.3~0.5
Material 材質	Brass 黄銅
Surface treatment 表面処理	Tin-plated Snメッキ

**M (8230-5307)****F (8240-0490)**

Cable size (mm <sup>2</sup> ) 適用電線サイズ	0.3~0.5
Material 材質	Heat-resistant copper alloy
Surface treatment 表面処理	Tin-plated Snメッキ

## (M)

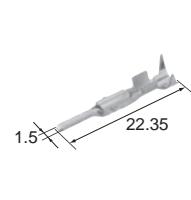
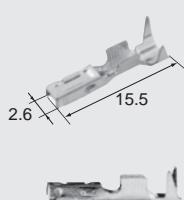
Cable size (mm <sup>2</sup> ) 適用電線サイズ	0.75~1.25
Material 材質	Brass 黄銅
Surface treatment 表面処理	Tin-plated Snメッキ

**M (8230-5308)****F (8240-0491)**

Cable size (mm <sup>2</sup> ) 適用電線サイズ	0.75~1.25
Material 材質	Heat-resistant copper alloy
Surface treatment 表面処理	Tin-plated Snメッキ

## (L)

Cable size (mm <sup>2</sup> ) 適用電線サイズ	2.0
Material 材質	Brass 黄銅
Surface treatment 表面処理	Tin-plated Snメッキ

**M (8230-5309)****F (8240-0492)**

Cable size (mm <sup>2</sup> ) 適用電線サイズ	2.0
Material 材質	Heat-resistant copper alloy
Surface treatment 表面処理	Tin-plated Snメッキ

## 1.5mm (060)

### Wire seals (UNIT : mm)

The wire seals are common to M and F.

ワイヤーシールは M、F 共用です。

## (SS)

**(7165-1562)**

Cable overall diameter (mm) 電線仕上外径	0.85~1.2
Material 材質	Silicon シリコン
Color 色相	Violet 紫



**(S)****(7165-1563)**

Cable overall diameter(mm) 電線仕上り外径	1.05~1.5
Material 材質	Silicon シリコン
Color 色相	Sky Blue 空色

**(M)****(7165-1564)**

Cable overall diameter(mm) 電線仕上り外径	1.35~1.9
Material 材質	Silicon シリコン
Color 色相	Light Green 淡緑

**(L)****(7165-1565)**

Cable overall diameter(mm) 電線仕上り外径	1.75~2.4
Material 材質	Silicon シリコン
Color 色相	Blue 青

**(LL)****(7165-1566)**

Cable overall diameter(mm) 電線仕上り外径	2.4~3
Material 材質	Silicon シリコン
Color 色相	Dark Yellow 濃黄



## 1.5mm (060)

### Dummy plugs (UNIT : mm)

Ref; 1.5mm Dummy plug detail

1.5mmダミー栓掲載頁

(7165-0193) J-07

- Dummy plugs are common to M and F.
- Dummy plugs are used to blind unused terminal holes.
- ダミー栓は M、F 共用です。
- 不必要なターミナル穴を塞ぐために、ダミー栓を使用します。

## 1.5mm (060)

### Housing (UNIT : mm)

Ref: Terminal part No.  
ターミナル参照頁

E-14

Ref: wire seal No.  
ワイヤシール参照頁

E-14

Ref: Dummy plug No.  
ダミー栓参照頁

J-07

Material  
材質

PBT

**2way**

Color 色相	Black 黒
-------------	------------

**M (6181-6851)****F (6189-7408)**

Color 色相	Black 黒
-------------	------------

**3way**

**F(6189-7494)**



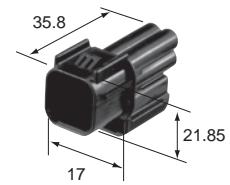
Color  
色相

Black  
黒

**4way**

Color  
色相

Black  
黒



**F(6189-7409)**



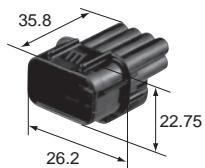
Color  
色相

Black  
黒

**8way**

Color  
色相

Black  
黒



**M(6181-6850)**

**F(6189-7423)**



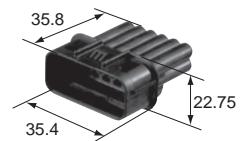
Color  
色相

Black  
黒

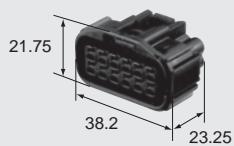
**12way**

Color  
色相

Black  
黒



**F(6189-7410)**



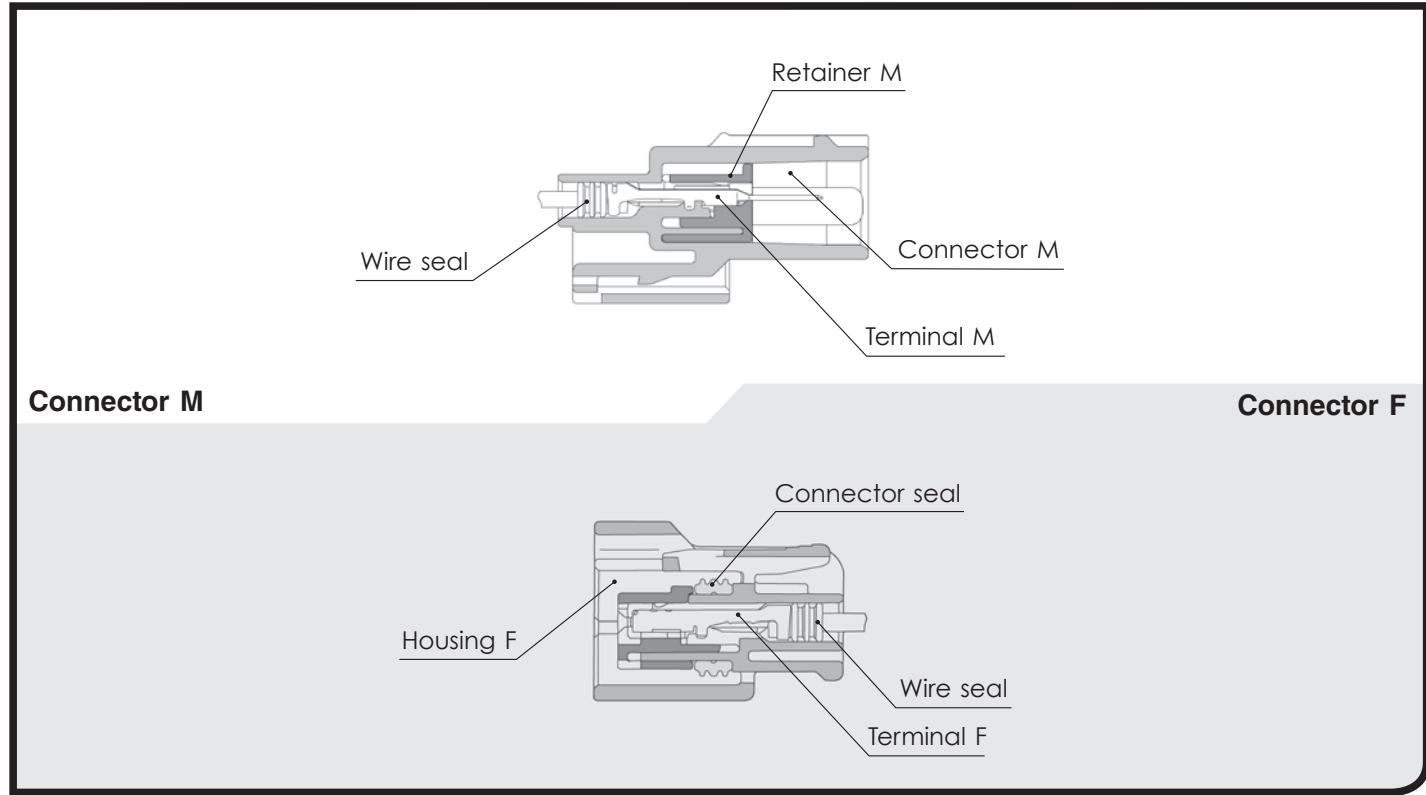
Color  
色相

Black  
黒

# HX SEALED SERIES for STANDARD

## 2.3mm (090)

Structure / 構造



## 2.3mm (090)

### Terminal (UNIT : mm)

Ref: 2.3mm Terminal detail  
2.3mm ターミナル参照頁

S M (8230-4472) L-02

M M (8230-4562) L-02

L M (8230-4552) L-02

(S)

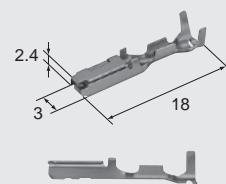
Cable size (mm<sup>2</sup>)  
適用電線サイズ 0.3~0.5

Cable overall diameter (mm)  
電線仕上外径 1.4~2.4

Material  
材質 Heat-resistant copper alloy

Surface treatment  
表面処理 Tin-plated Snメッキ

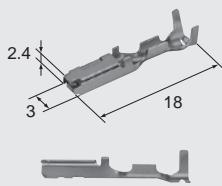
F (8240-4862)



(M)

Cable size (mm <sup>2</sup> ) 適用電線サイズ	0.75~0.85
Cable overall diameter (mm) 電線仕上外径	1.8~2.6
Material 材質	Heat-resistant copper alloy
Surface treatment 表面処理	Tin-plated Snメッキ

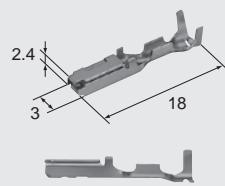
F (8240-4992)



(L)

Cable size (mm <sup>2</sup> ) 適用電線サイズ	1.25~2.0
Cable overall diameter (mm) 電線仕上外径	2.1~2.9
Material 材質	Heat-resistant copper alloy
Surface treatment 表面処理	Tin-plated Snメッキ

F (8240-4952)



## 2.3mm (090)

E-18

### Wire seals (UNIT : mm)

The wire seals are common to M and F.

ワイヤーシールは M、F 共用です。

(S)

Cable size (mm <sup>2</sup> ) 適用電線サイズ	(AV/0.5) (AVX/AEX/0.5~0.75) (AVS/0.3~0.85) (AVSS/0.85~1.25) (AVSSX/0.75~1.25)
Cable overall diameter (mm) 電線仕上外径	1.7~2.4
Material 材質	Silicon シリコン
Color 色相	Green 緑

(7165-0194)



(SS)

(7165-0385)

Cable size (mm <sup>2</sup> ) 適用電線サイズ	(AVSS/0.3~0.5) (AVSSX/0.5)
Cable overall diameter (mm) 電線仕上外径	1.2~1.7
Material 材質	Silicon シリコン
Color 色相	Gray 灰

(7165-0385)



(M)

(7165-0198)

Cable size (mm <sup>2</sup> ) 適用電線サイズ	(AV/0.5~1.25) (AVX/AEX/0.75~1.25) (AVS/0.85~1.25) (AVSS/1.25~2.0) (AVSSX/1.25~2.0)
Cable overall diameter (mm) 電線仕上外径	2.1~2.9
Material 材質	Silicon シリコン
Color 色相	Yellow 黄



## 2.3mm (090)

### Dummy plugs (UNIT : mm)

Ref: 2.3mm Dummy plug detail

2.3mmダミー栓掲載頁

(7165-0193) J-07

- Dummy plugs are common to M and F.
- Dummy plugs are used to blind unused terminal holes.
- ダミー栓は M、F 共用です。
- 不必要なターミナル穴を塞ぐために、ダミー栓を使用します。

## 2.3mm (090)

### Housing (UNIT : mm)

Ref: Terminal part No.  
ターミナル参照頁

E-17

Ref: wire seal No.  
ワイヤーシール参照頁

E-18

Ref: Dummy plug No.  
ダミー栓参照頁

J-07

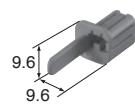
Material  
材質

PBT

### 1way

Color  
色相

Black  
黒



Retainer No.(6918-2665)

**M (6181-0803)**

**F (6189-0591)**



Retainer No.(6918-1370)

Color  
色相

Black  
黒

### 2way

**F (6189-0552)**



Note)  
Color  
色相

Black  
黒

Retainer No.(6918-1260)

### 2way

(Rib difference) (リブ違)

**F (6189-0593)**



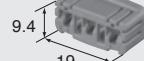
Note)  
Color  
色相

Brown  
茶

Retainer No.(6918-1260)

### 3way

**F (6189-0596)**



Note)  
Color  
色相

Black  
黒

Retainer No.(6918-1371)

### 4way

**F (6189-0617)**



Note)  
Color  
色相

Black  
黒

Retainer No.(6918-1469)

# HX SEALED SERIES

## for HYBRID

### 4.8mm (187)

#### Terminal (UNIT : mm)

Ref; 4.8mm Terminal detail

4.8mmターミナル参照頁

**S M(8100-0463)** B-19

**M M(8100-0464)** B-19

**L M(8100-0465)** B-19 **F(8100-0468)** B-19

### 4.8mm (187)

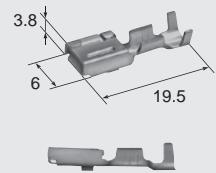
#### Wire seals (UNIT : mm)

The wire seals are common to M and F.

ワイヤシールはM、F共用です。

#### (S)

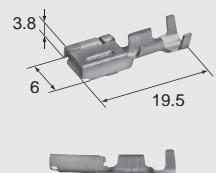
**F(8100-0661)**



Cable size (mm <sup>2</sup> ) 適用電線サイズ	0.3~0.5
Cable overall diameter (mm) 電線仕上り外径	1.4~2.4
Material 材質	Heat-resistant copper alloy
Surface treatment 表面処理	Tin-plated Snメッキ

#### (M)

**F(8100-0660)**



Cable size (mm <sup>2</sup> ) 適用電線サイズ	0.5~1.25
Cable overall diameter (mm) 電線仕上り外径	1.6~2.6
Material 材質	Heat-resistant copper alloy
Surface treatment 表面処理	Tin-plated Snメッキ

#### (S)

for 2.3mm, 4.8mm 10way

**(7165-0172)**

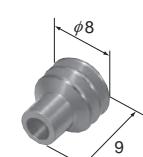


Cable size (mm <sup>2</sup> ) 適用電線サイズ	(AVS/0.3) (AVSS/0.3~0.85) (AVSSX/0.5~0.75)
Cable overall diameter (mm) 電線仕上り外径	1.4~1.9
Material 材質	NBR
Color 色相	Brown 茶

#### (M)

for 2.3mm, 4.8mm 10way

**(7165-0130)**



Cable size (mm <sup>2</sup> ) 適用電線サイズ	(AV/0.5~1.25) (AVX/0.5~1.25) (AVS/0.3~1.25) (AVSS/0.85~2.0) (AVSSX/0.75~2.0)
Cable overall diameter (mm) 電線仕上り外径	1.8~2.9
Material 材質	NBR
Color 色相	Gray 灰

**(L)**

for 2.3mm, 4.8mm 10way

Cable size (mm<sup>2</sup>)(AV/2.0~3.0) (AVX/2.0~3.0)  
(AVS/2.0~3.0)適用電線サイズ  
Cable overall diameter (mm)3.0~4.1  
電線仕上り外径

Material

NBR

Color  
色相Black  
黒**(M)**

for 1.0mm, 4.8mm 13way

Cable size (mm<sup>2</sup>)

(AVS/0.3~1.25)

適用電線サイズ  
Cable overall diameter (mm)1.8~2.9  
電線仕上り外径

Material

Silicon

材質

シリコン

Color  
色相Dark Green  
濃緑**1.0mm, 4.8mm****(040, 187)****Housing (UNIT : mm)**

Ref: Terminal part No.

[1.0mm] E-02

ターミナル参照頁

[4.8mm] E-20

Ref: wire seal No.

[1.0mm] E-03

ワイヤーシール参照頁

[4.8mm] E-21

Ref: Dummy plug No.

[1.0mm] E-04

ダミー栓参照頁

[4.8mm] B-21

Material

材質

PBT

No. of way / ( ) corresponds to 1.0mm, 4.8mm, in order from left to right.  
極数 / ( ) 内表示: 左から1.0mm 極数、4.8mm 極数**1.5mm, 4.8mm****(060, 187)****Housing (UNIT : mm)**

Ref: Terminal part No.

[1.5mm] E-14

ターミナル参照頁

[4.8mm] E-20

Ref: wire seal No.

[1.5mm] E-15

ワイヤーシール参照頁

[4.8mm] E-20

Ref: Dummy plug No.

[1.5mm] J-07

ダミー栓参照頁

[4.8mm] B-21

Material

材質

PBT

No. of way / ( ) corresponds to 1.5mm, 4.8mm, in order from left to right.  
極数 / ( ) 内表示: 左から1.5mm 極数、4.8mm 極数**(L)**

for 1.0mm, 4.8mm 13way

Cable size (mm<sup>2</sup>)

(AVS/2.0~3.0)

適用電線サイズ  
Cable overall diameter (mm)

3.0~4.1

Material

Silicon

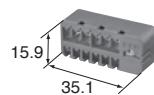
材質

シリコン

Color  
色相Dark Blue  
濃青

E-21

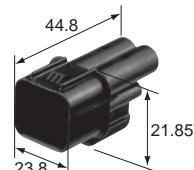
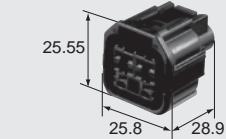
HX SEALED SERIES

**13way (12+1)**Color  
色相Black  
黒

Retainer No. (6181-6465)

**M (6181-6464)**

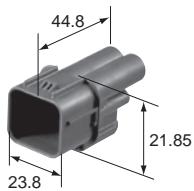
Retainer No. (6185-4596)

Color  
色相Black  
黒**4way (2+2)**Color  
色相Black  
黒**M (6181-6785)****F (6189-7411)**Color  
色相Black  
黒

### 5way (3+2)

Color  
色相

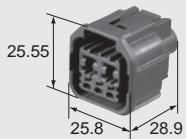
Dark gray  
濃灰



M (6181-6921)

F (6189-7567)

E-22



Color  
色相

Dark gray  
濃灰

## 2.3mm, 4.8mm (090, 187)

### Housing (UNIT : mm)

Ref: Terminal part No. ターミナル参照頁	[2.3mm] [4.8mm]	E-17 E-20
Ref: wire seal No. ワイヤーシール参照頁	[2.3mm] [4.8mm]	E-18 E-21
Ref: Dummy plug No. ダミー栓参照頁	[2.3mm] [4.8mm]	J-07 B-21

Material  
材質 PBT

No. of way/ ( ) corresponds to 2.3mm, 4.8mm, in order from left to right.  
極数／( ) 内表示：左から2.3mm 極数、4.8mm 極数

### 10way (8+2)

Color  
色相

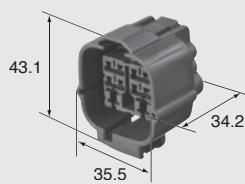
Dark gray  
濃灰



Retainer No.(6918-1263)

M (6181-0381)

F (6189-0555)

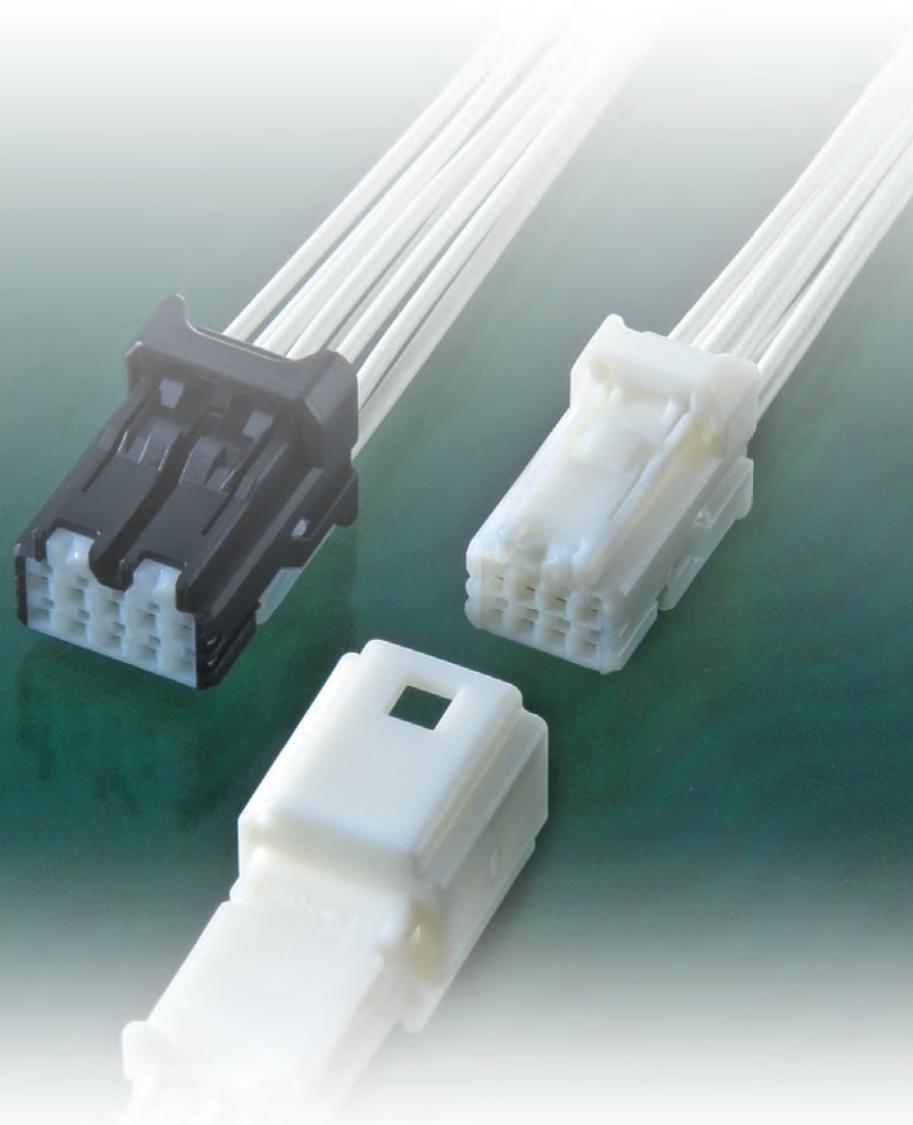


Retainer No.(6918-1267)

Color  
色相

Dark gray  
濃灰

# NH SERIES



## Features

The NH series connector is a highly reliable for connector mating and terminal insertion. This series consist of 0.64mm and hybrid type(0.64mm+2.3mm) terminal usable for control circuit and low power circuit.

- The front mask of Female connector assists allure male terminal.
- By setting TPA (Terminal Position Assurance) adjust the incomplete inserted terminal to the correct position.
- An extra clip can be attached to the connector housing to secure it to the body.
- RoHS/ELV Compliant

## 特 長

NHシリーズは、コネクタ嵌合、ターミナル抜け等において信頼性を向上させたコネクタです。ターミナルサイズが0.64mmとハイブリッドタイプ(0.64mm+2.3mm)で構成されており、信号回路と低パワー回路にご利用いただけます。

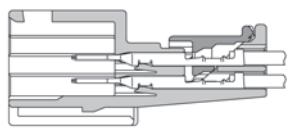
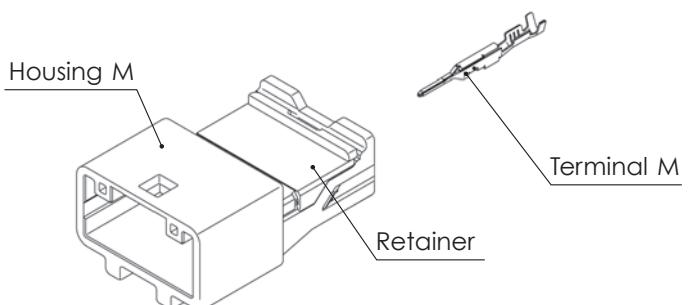
- メスコネクタは、フロントマスクの採用により、コネクタ嵌合時のオス端子誘い込み性が向上しております。
- 挿入不足のターミナルは、リテーナをセットすることにより正規の位置に固定されます。
- コネクタハウジングにはボディに固定するためのクランプ(クリップ)を装着することができます。
- RoHS／ELV 対応

# NH SERIES for STANDARD

## 0.64mm (025)

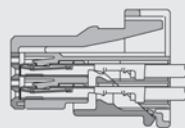
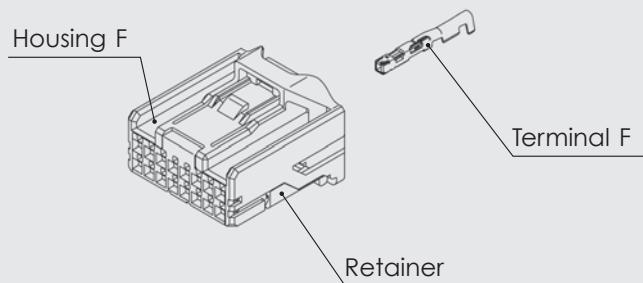
Structure / 構造

F-02



Connector M

Connector F



0.64mm (025)

Terminal (UNIT : mm)

**(S)**

Cable size (mm <sup>2</sup> ) 適用電線サイズ	0.22~0.5
Material 材質	Brass 黄銅
Surface treatment 表面処理	Tin-plated Snメッキ

**M (8230-5379)**

**F (8240-0552)**

Cable size (mm <sup>2</sup> ) 適用電線サイズ	0.22~0.5
Material 材質	Heat-resistant copper alloy
Surface treatment 表面処理	Tin-plated Snメッキ

**(M)**

Cable size (mm <sup>2</sup> ) 適用電線サイズ	0.75
Material 材質	Brass 黄銅
Surface treatment 表面処理	Tin-plated Snメッキ

**M (8230-5380)**

**F (8240-0523)**

Cable size (mm <sup>2</sup> ) 適用電線サイズ	0.75
Material 材質	Heat-resistant copper alloy
Surface treatment 表面処理	Tin-plated Snメッキ

## 0.64mm (025)

**Housing (UNIT : mm)**

Ref: Terminal part No.  
ターミナル参照頁 F-02

Material 材質	PBT
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**4way**

Color 色相	Natural 自然色
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**M (6098-5310) TH 04 MW-NH**   **TH 04 FW-NH F (6098-5267)**

Color 色相	Natural 自然色
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**3way**

**F (6098-7063)**

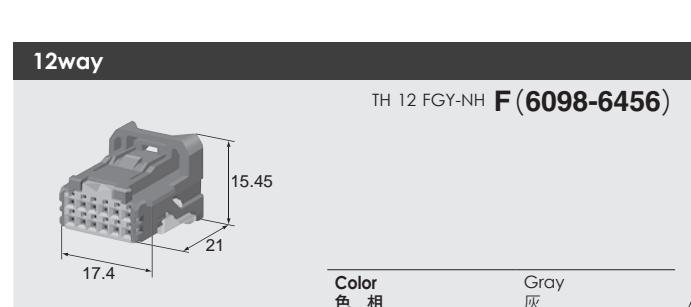
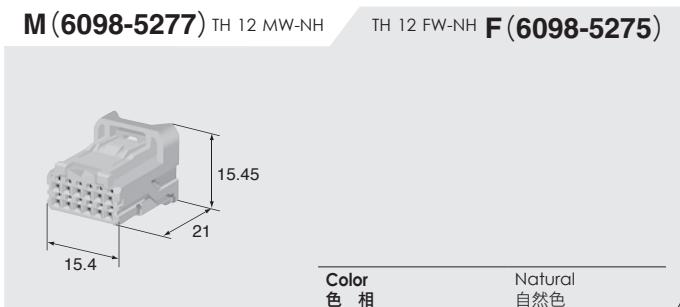
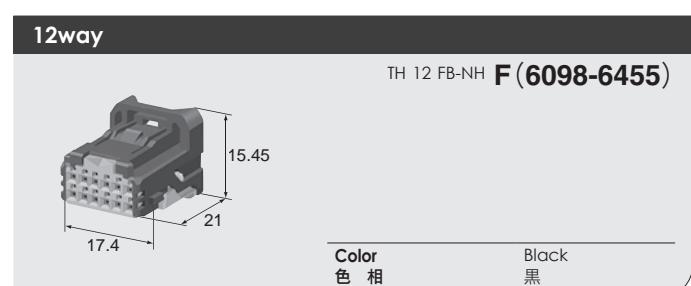
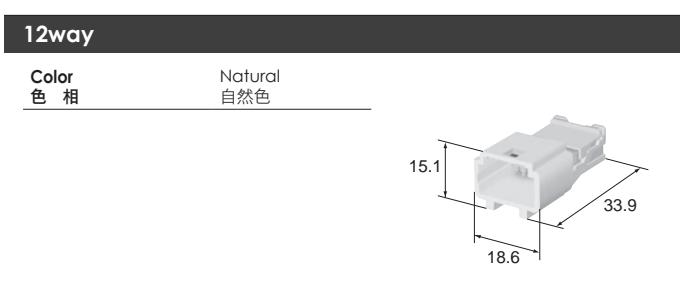
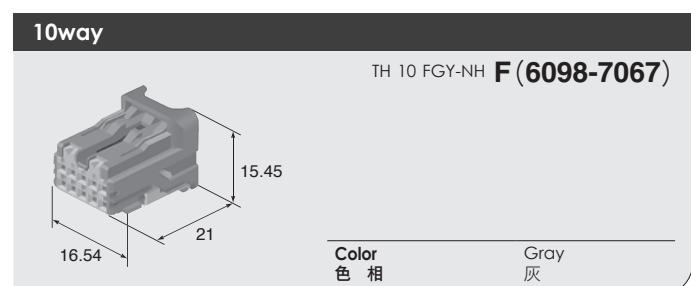
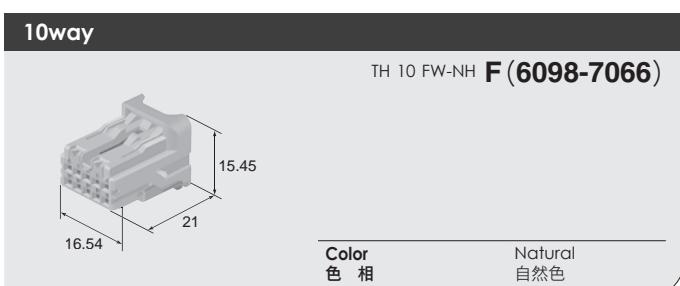
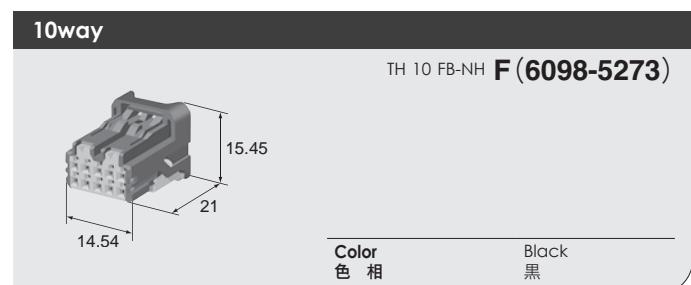
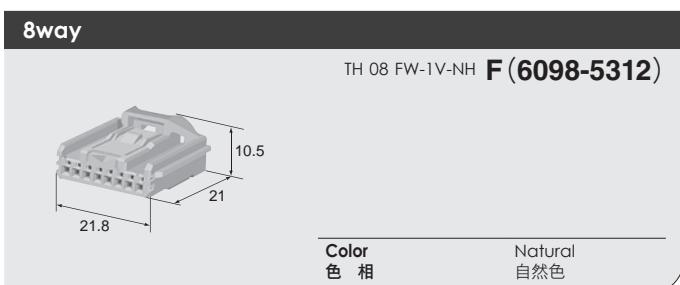
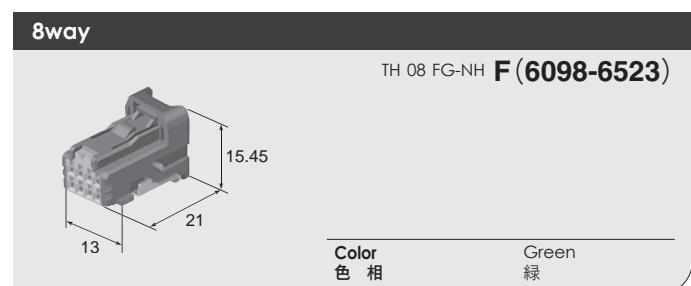
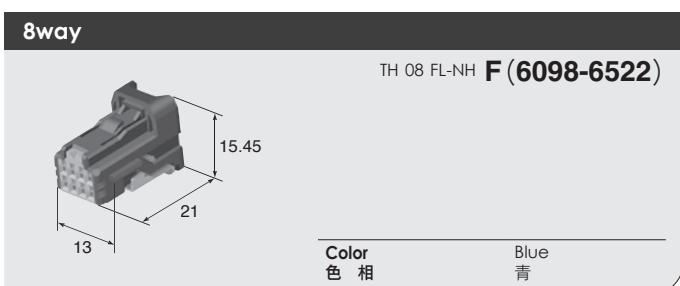
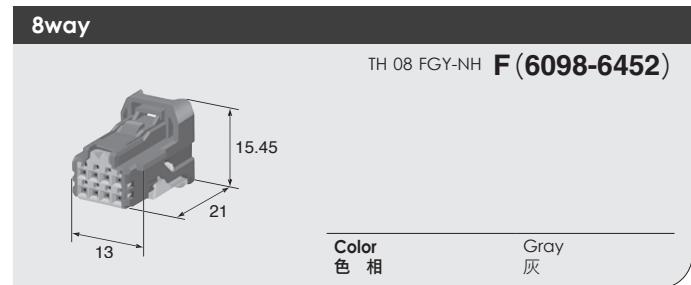
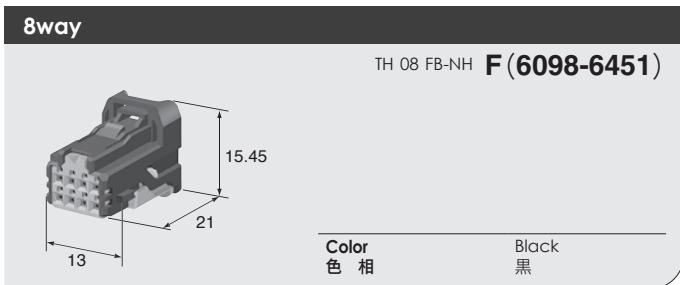
Color 色相	Natural 自然色
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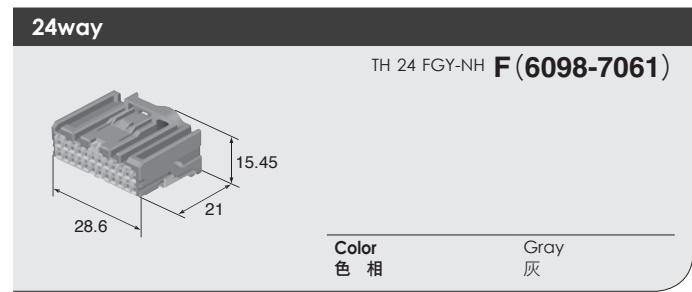
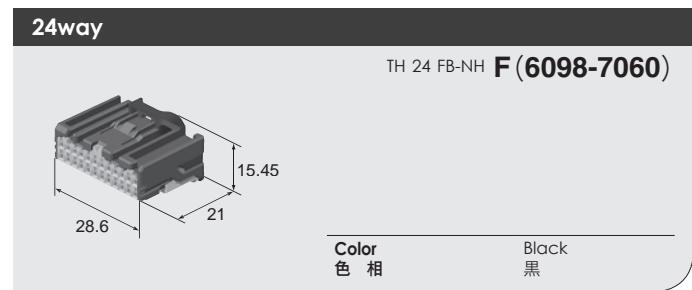
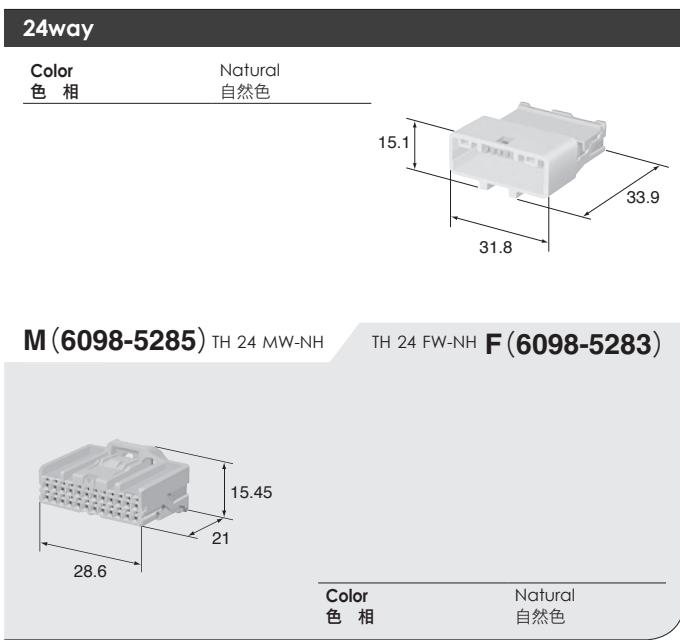
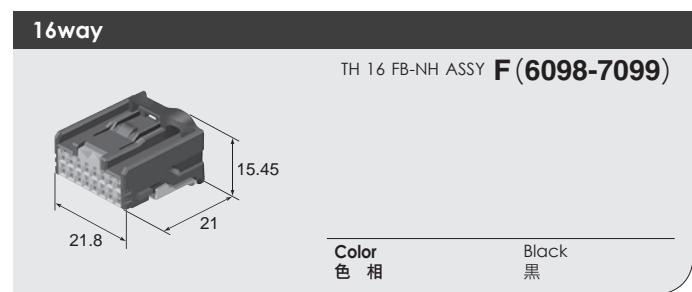
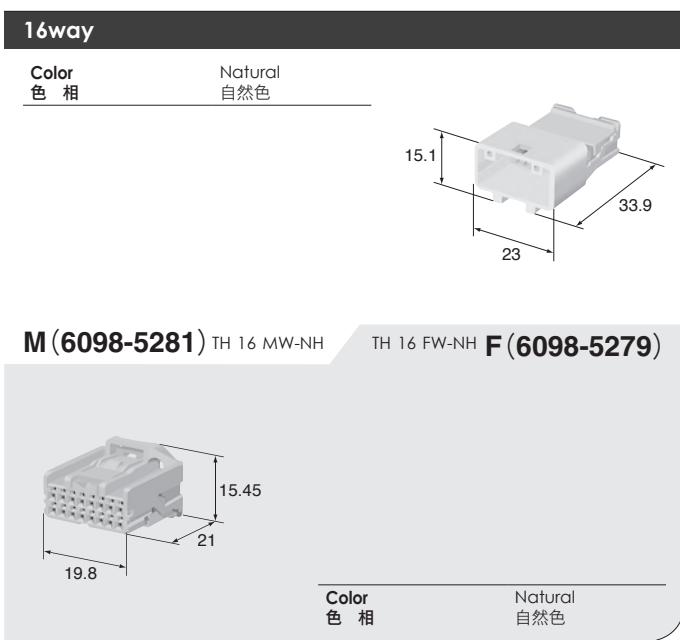
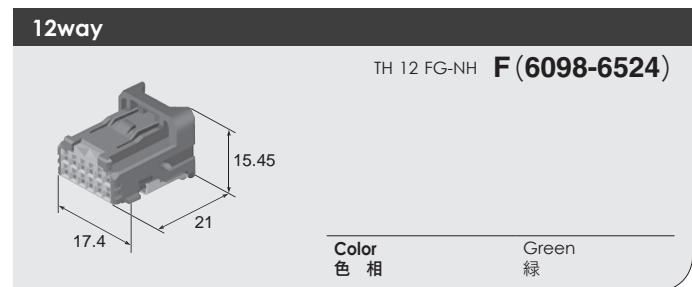
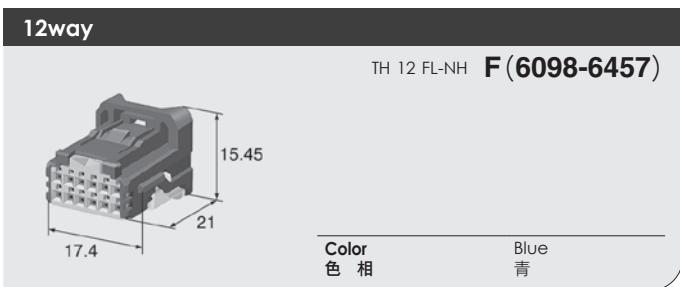
**8way**

Color 色相	Natural 自然色
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**M (6098-5271) TH 08 MW-NH**   **TH 08 FW-NH F (6098-5269)**

Color 色相	Natural 自然色
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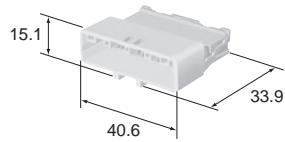




### 32way

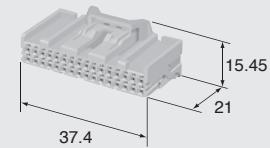
Color  
色相

Natural  
自然色



**M (6098-5289)** TH 32 MW-NH

TH 32 FW-NH **F (6098-5287)**



Color  
色相

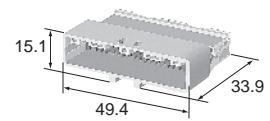
Natural  
自然色

F-06

### 40way

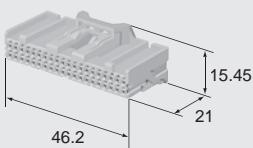
Color  
色相

Natural  
自然色



**M (6098-5585)** TH 40 MW-NH

TH 40 FW-NH **F (6098-5291)**

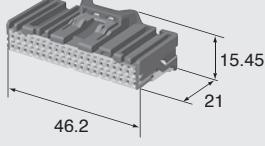


Color  
色相

Natural  
自然色

### 40way

TH 40 FB-NH **F (6098-5293)**

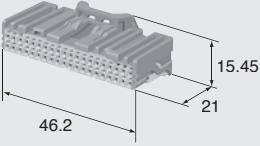


Color  
色相

Black  
黒

### 40way

TH 40 FGY-NH **F (6098-5295)**

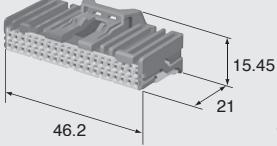


Color  
色相

Gray  
灰

### 40way

TH 40 FG-NH **F (6098-5297)**



Color  
色相

Green  
緑

# NH SERIES

## for HYBRID

F-07

NH SERIES

**2.3mm (090)**

**Terminal** (UNIT : mm)

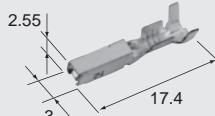
**(SS)**

Cable size (mm <sup>2</sup> ) 適用電線サイズ	0.22
Material 材質	Brass 黃銅
Surface treatment 表面処理	Tin-plated Snメッキ



**M (8230-5168)**

**F (8240-0367)**



Cable size (mm <sup>2</sup> ) 適用電線サイズ	0.22
Material 材質	Heat-resistant copper alloy
Surface treatment 表面処理	Tin-plated Snメッキ

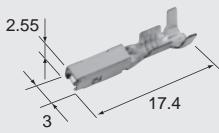
**(S)**

Cable size (mm <sup>2</sup> ) 適用電線サイズ	0.3~0.5
Material 材質	Brass 黃銅
Surface treatment 表面処理	Tin-plated Snメッキ



**M (8230-5169)**

**F (8240-0368)**



Cable size (mm <sup>2</sup> ) 適用電線サイズ	0.3~0.5
Material 材質	Heat-resistant copper alloy
Surface treatment 表面処理	Tin-plated Snメッキ

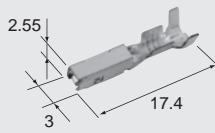
**(M)**

Cable size (mm <sup>2</sup> ) 適用電線サイズ	0.75~1.0
Material 材質	Brass 黃銅
Surface treatment 表面処理	Tin-plated Snメッキ



**M (8230-5170)**

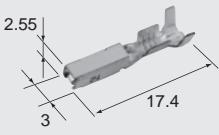
**F (8240-0369)**



Cable size (mm <sup>2</sup> ) 適用電線サイズ	0.75~1.0
Material 材質	Heat-resistant copper alloy
Surface treatment 表面処理	Tin-plated Snメッキ

**(L)**

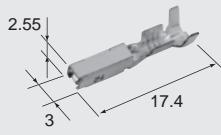
<b>Cable size (mm<sup>2</sup>)</b> 適用電線サイズ	1.25
<b>Material</b> 材質	Brass 黄銅
<b>Surface treatment</b> 表面処理	Tin-plated Snメッキ

**M (8230-5171)**

<b>Cable size (mm<sup>2</sup>)</b> 適用電線サイズ	1.25
<b>Material</b> 材質	Heat-resistant copper alloy
<b>Surface treatment</b> 表面処理	Tin-plated Snメッキ

**F (8240-0370)****(LL)**

<b>Cable size (mm<sup>2</sup>)</b> 適用電線サイズ	2.0~2.5
<b>Material</b> 材質	Brass 黄銅
<b>Surface treatment</b> 表面処理	Tin-plated Snメッキ

**M (8230-5172)**

<b>Cable size (mm<sup>2</sup>)</b> 適用電線サイズ	2.0~2.5
<b>Material</b> 材質	Heat-resistant copper alloy
<b>Surface treatment</b> 表面処理	Tin-plated Snメッキ

**F (8240-0371)**

## 0.64mm, 2.3mm (025, 090)

### Housing (UNIT : mm)

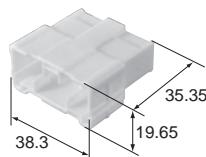
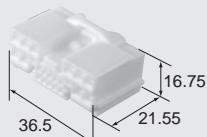
<b>Ref: Terminal part No.</b> ターミナル参考頁	[0.64mm] F-03
	[2.3mm] F-07

<b>Material</b> 材質	PBT
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No. of way / ( ) corresponds to 0.64mm, 2.3mm, in order from left to right.  
極数 / ( ) 内表示: 左から0.64mm 極数、2.3mm 極数

### 20way (10+10)

<b>Color</b> 色相	Natural 自然色
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**M (6098-5989) NH 10 MW-CS10 NH 10 FW-CS10 F (6098-5988)**

<b>Color</b> 色相	Natural 自然色
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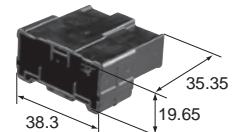
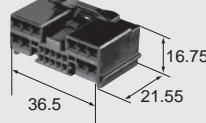
### 20way (18+2)

NH 18 FW-CS2 **F (6098-7261)**

<b>Color</b> 色相	Natural 自然色
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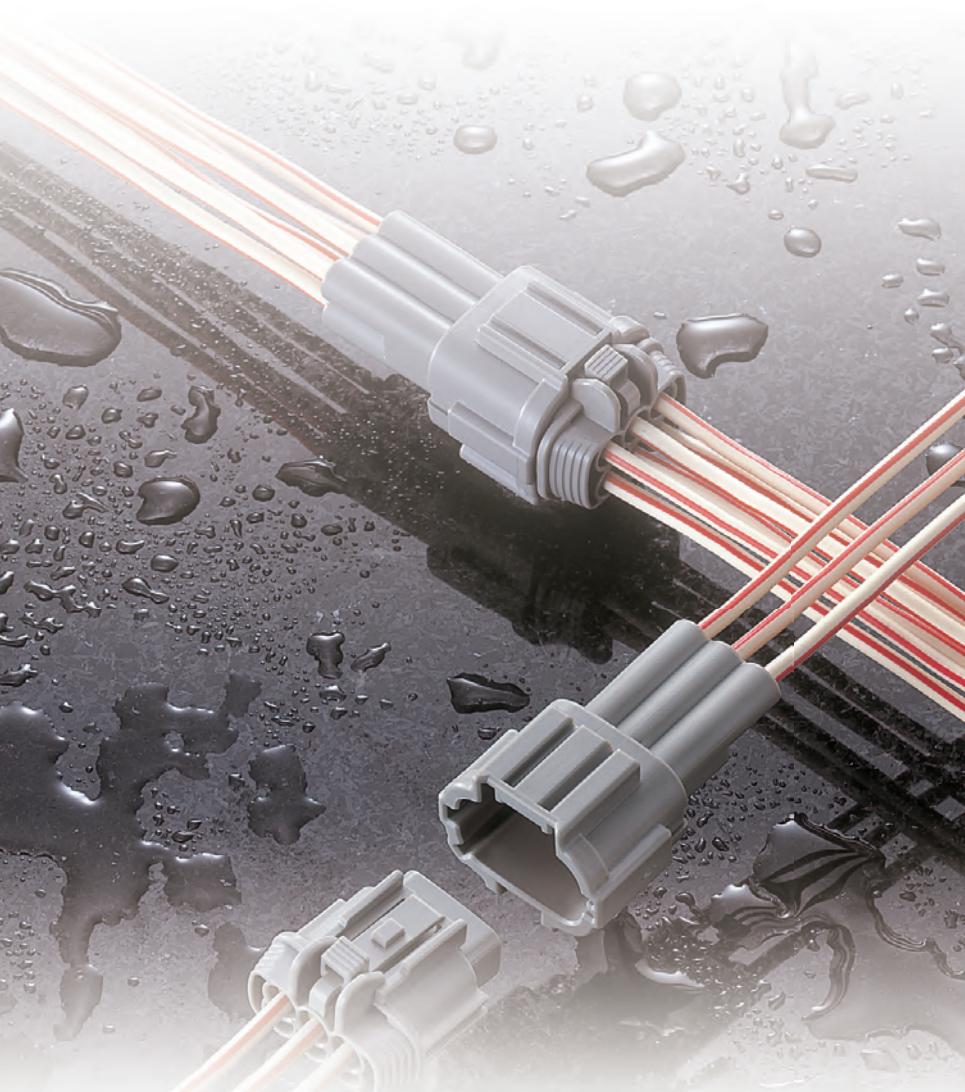
### 20way (10+10)

<b>Color</b> 色相	Black 黒
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**M (6098-7254) NH 10 MW-CS10-B NH 10 FW-CS10-B F (6098-7253)**

<b>Color</b> 色相	Black 黒
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# RS SERIES



## Features

RS series consists of a 2.3mm type classified according to terminal size, supporting use in a variety of control circuits and low power circuits.

- The RS-standard type connectors adopt an inertia locking system to prevent semi-engagement (this system is not incorporated in some connectors).
- RoHS/ELV Compliant

## 特 長

RS シリーズは、ターミナルサイズが2.3mmで構成されており、各種の制御回路並びに低パワー回路に対応することができます。

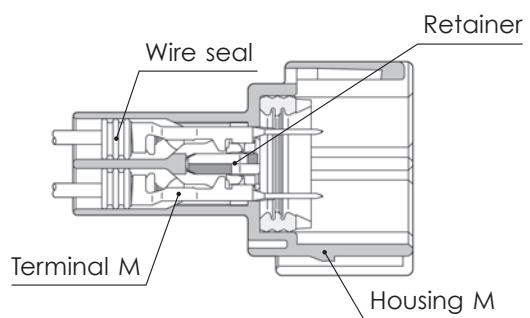
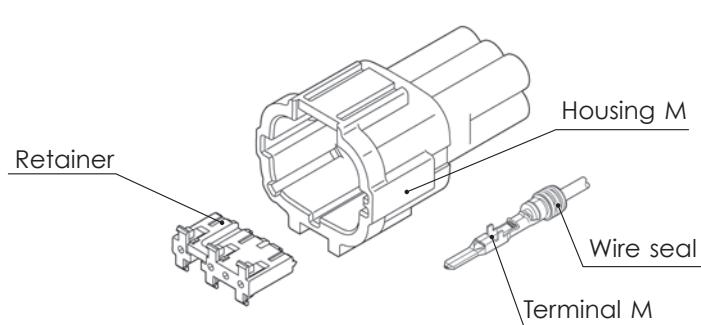
- RS- 標準タイプコネクタは、コネクタの半嵌合が起きにくい慣性ロック方式です。(慣性ロック方式でないコネクタが一部あります。)
- RoHS／ELV 対応

# RS SERIES for STANDARD Type1

## 2.3mm(090)

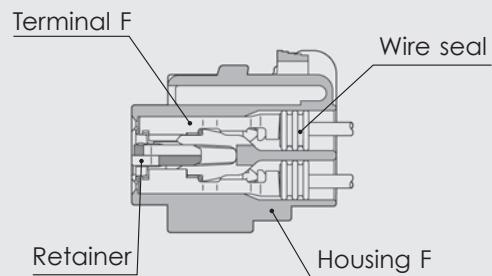
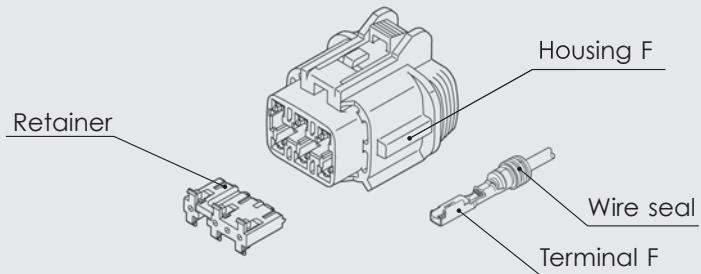
Structure／構造

G-02



Connector M

Connector F

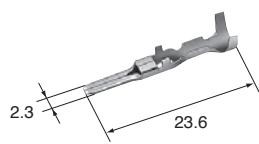
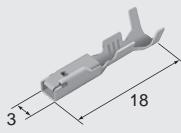


2.3mm(090)

Terminal (UNIT : mm)

**Au****(S)**

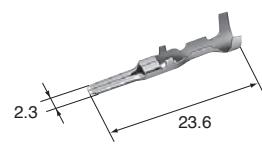
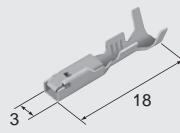
<b>Cable size (mm<sup>2</sup>)</b> 適用電線サイズ	0.3~0.5
<b>Material</b> 材質	Brass 黄銅
<b>Surface treatment</b> 表面処理	Tin-plated Snメッキ

**M (8100-3803)****F (8240-0263)**

<b>Cable size (mm<sup>2</sup>)</b> 適用電線サイズ	0.3~0.5
<b>Material</b> 材質	Heat-resistant copper alloy
<b>Surface treatment</b> 表面処理	Tin-plated Snメッキ

**(S)**

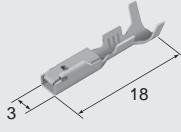
<b>Cable size (mm<sup>2</sup>)</b> 適用電線サイズ	0.3~0.5
<b>Material</b> 材質	Brass 黄銅
<b>Surface treatment</b> 表面処理	Gold-plated Auメッキ

**M (8100-3805)****F (8240-0266)**

<b>Cable size (mm<sup>2</sup>)</b> 適用電線サイズ	0.3~0.5
<b>Material</b> 材質	Heat-resistant copper alloy
<b>Surface treatment</b> 表面処理	Gold-plated Auメッキ

**(M)**

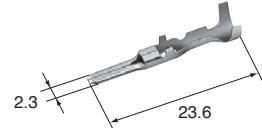
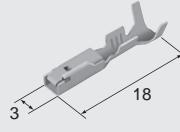
<b>Cable size (mm<sup>2</sup>)</b> 適用電線サイズ	0.85~1.25
<b>Material</b> 材質	Brass 黄銅
<b>Surface treatment</b> 表面処理	Tin-plated Snメッキ

**M (8100-3804)****F (8240-0264)**

<b>Cable size (mm<sup>2</sup>)</b> 適用電線サイズ	0.85~1.25
<b>Material</b> 材質	Heat-resistant copper alloy
<b>Surface treatment</b> 表面処理	Tin-plated Snメッキ

**(M)**

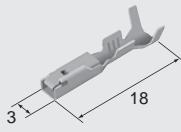
<b>Cable size (mm<sup>2</sup>)</b> 適用電線サイズ	0.85~1.25
<b>Material</b> 材質	Brass 黄銅
<b>Surface treatment</b> 表面処理	Gold-plated Auメッキ

**M (8100-3806)****F (8240-0267)**

<b>Cable size (mm<sup>2</sup>)</b> 適用電線サイズ	0.85~1.25
<b>Material</b> 材質	Heat-resistant copper alloy
<b>Surface treatment</b> 表面処理	Gold-plated Auメッキ

**(L)**

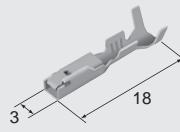
<b>Cable size (mm<sup>2</sup>)</b> 適用電線サイズ	2.0
<b>Material</b> 材質	Brass 黄銅
<b>Surface treatment</b> 表面処理	Tin-plated Snメッキ

**M (8100-4172)****F (8240-0265)**

<b>Cable size (mm<sup>2</sup>)</b> 適用電線サイズ	2.0
<b>Material</b> 材質	Heat-resistant copper alloy
<b>Surface treatment</b> 表面処理	Tin-plated Snメッキ

**(L)**

<b>Cable size (mm<sup>2</sup>)</b> 適用電線サイズ	2.0
<b>Material</b> 材質	Brass 黄銅
<b>Surface treatment</b> 表面処理	Gold-plated Auメッキ

**M (8100-4173)****F (8240-0268)**

<b>Cable size (mm<sup>2</sup>)</b> 適用電線サイズ	2.0
<b>Material</b> 材質	Heat-resistant copper alloy
<b>Surface treatment</b> 表面処理	Gold-plated Auメッキ

## 2.3mm (090)

G-04

### Wire seals (UNIT : mm)

The wire seals are common to M and F.  
ワイヤシールはM、F共用です。

(U)

(7165-0474)

Cable size (mm<sup>2</sup>) (AVSS/0.3) (CAVUS/0.3~0.5)  
適用電線サイズ

Cable overall diameter (mm) 1.0~1.4  
電線仕上外径

Material Silicon  
材質 シリコン

Color Orange  
色相 橙



(S)

(7165-0473)

Cable size (mm<sup>2</sup>) (AVSS/0.5~0.85) (CAVUS/0.85~1.25)  
適用電線サイズ

Cable overall diameter (mm) 1.5~1.9  
電線仕上外径

Material Silicon  
材質 シリコン

Color Light Blue  
色相 淡青



(M)

(7165-0472)

Cable size (mm<sup>2</sup>) (AVSS/1.25)  
適用電線サイズ

Cable overall diameter (mm) 2.0~2.4  
電線仕上外径

Material Silicon  
材質 シリコン

Color Violet  
色相 紫



(L)

(7165-0471)

Cable size (mm<sup>2</sup>) (AVSS/2.0)  
適用電線サイズ

Cable overall diameter (mm) 2.5~2.9  
電線仕上外径

Material Silicon  
材質 シリコン

Color Light Green  
色相 淡緑



## 2.3mm (090)

### Dummy plugs (UNIT : mm)

- Dummy plugs are common to M and F.
- Dummy plugs are used to blind unused terminal holes.
- ダミー栓はM、F共用です。
- 不必要なターミナル穴を塞ぐために、ダミー栓を使用します。

(7165-1131)

Material	Silicon 材質 シリコン
Color	Blue 色相 青



# 2.3mm (090)

## Housing (UNIT : mm)

Ref: Terminal part No.  
ターミナル参照頁

G-02

Ref: wire seal No.  
ワイヤーシール参照頁

G-04

Ref: Dummy plug No.  
ダミー栓参照頁

G-04

Material  
材質

PBT

※ Detail dimensions for mounting portion of the bracket are specified in the official drawing.  
Please contact our sales staff.

※ 固定用ブラケットに関しては、弊社営業担当にお問い合わせください。

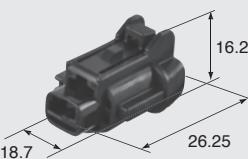
## 1way



Retainer No.(6918-1773)

**M (6188-0551) RS 01 MB**

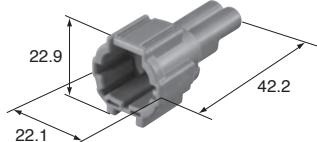
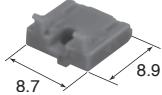
RS 01 FB **F (6185-0862)**



Retainer No.(6918-1773)

**G-05**

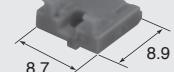
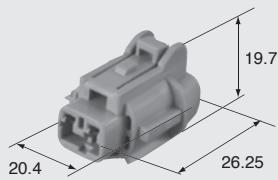
## 2way



Retainer No.(6918-1774)

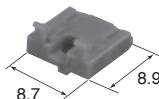
**M (6188-0554) RS 02 MGY**

RS 02 FGY **F (6185-0867)**



Retainer No.(6918-1774)

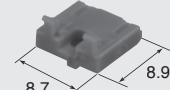
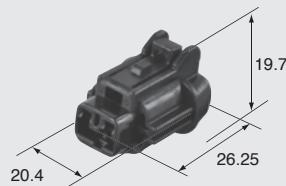
## 2way



Retainer No.(6918-1774)

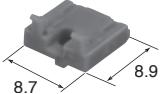
**M (6188-0552) RS 02 MB**

RS 02 FB **F (6185-0865)**



Retainer No.(6918-1774)

## 2way



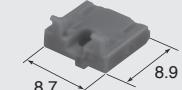
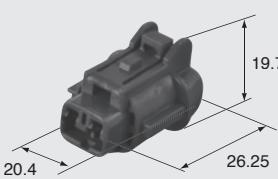
Retainer No.(6918-1774)

**M (6188-0553) RS 02 MBR**

**M (6188-0663) RS 02 MBR-DGY**

RS 02 FBR **F (6185-0866)**

RS 02 FBR-DGY **F (6185-1101)**



Retainer No.(6918-1774)

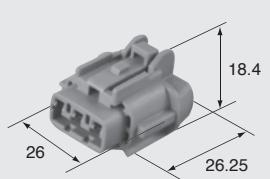
## 3way



Retainer No.(6918-1775)

**M (6188-0556) RS 03 MGY**

RS 03 FGY **F (6185-0869)**



Retainer No.(6918-1775)

RS SERIES

### 3way



Retainer No.(6918-1775)



**M (6188-0555)** RS 03 MB

**RS 03 FB F (6185-0868)**

G-06



Retainer No.(6918-1775)

### 4way

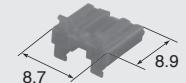
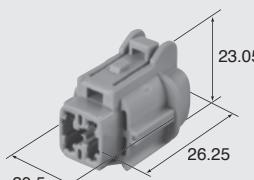


Retainer No.(6918-1776)



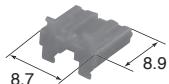
**M (6188-0558)** RS 04 MGY

**RS 04 FGY-PR F (6185-1171)**



Retainer No.(6918-1776)

### 4way

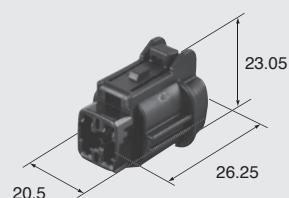


Retainer No.(6918-1776)



**M (6188-0557)** RS 04 MB

**RS 04 FB-PR F (6185-1169)**



Retainer No.(6918-1776)

### 6way



Retainer No.(6918-1779)



### 6way

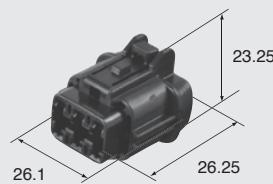


Retainer No.(6918-1779)



**M (6188-5539)** RS 06 MB

**RS 06 FB-PR F (6185-5175)**



Retainer No.(6918-1779)

### 8way

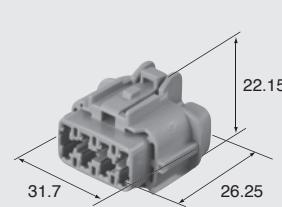


Retainer No.(6918-1780)



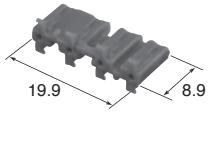
**M (6188-5544)** RS 08 MGY-PR

**RS 08 FGY-PR F (6185-5181)**



Retainer No.(6918-1780)

**8way**



Retainer No.(6918-1780)



**M (6188-5542) RS 08 MB-PR**

**RS 08 FB-PR F (6185-5179)**



Retainer No.(6918-1780)

**G-07**

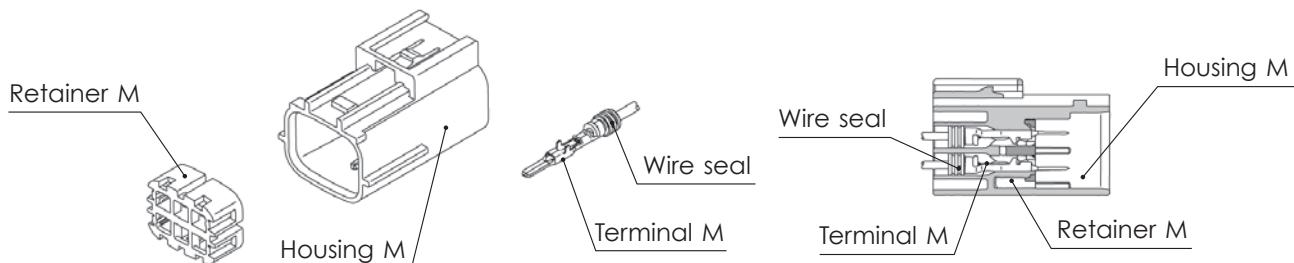
RS SERIES

# RS SERIES for STANDARD Type2

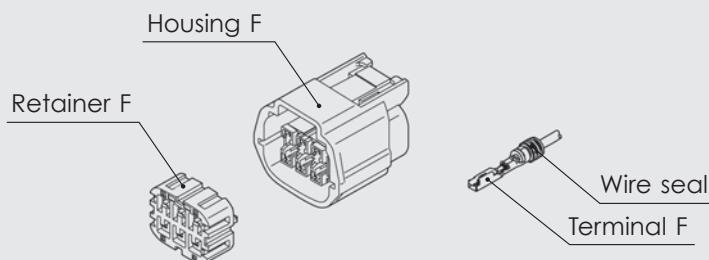
## 2.3mm(090)

Structure / 構造

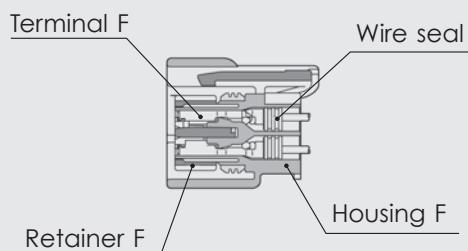
G-08



**Connector M**



**Connector F**



**2.3mm (090)**

**Housing** (UNIT : mm)

Ref: Terminal part No.  
ターミナル参照頁

G-02

Ref: wire seal No.  
ワイヤシール参照頁

G-04

Ref: Dummy plug No.  
ダミー栓参照頁

G-04

**Material**  
材質

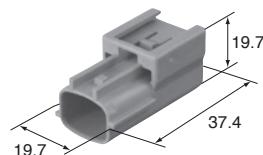
PBT

**2way**

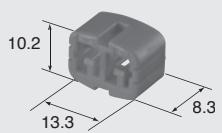
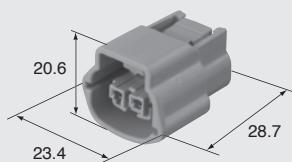


Retainer No.(6918-1653)

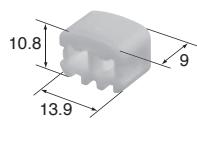
**M (6181-0515)** RS 02 MSB  
**M (6181-0670)** RS 02 MSB-B



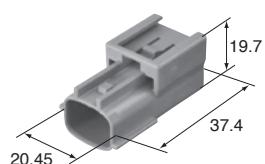
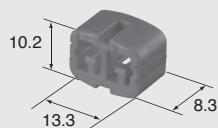
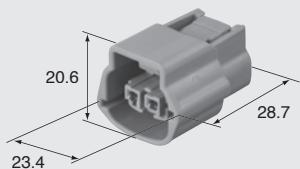
RS 02 FSB **F (6189-0951)**  
RS 02 FSB-B **F (6189-1107)**



Retainer No.(6918-1651)

**2way**

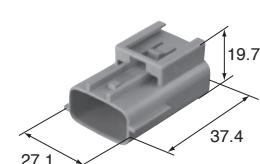
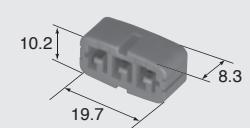
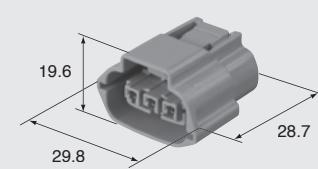
Retainer No.(6918-1653)

**M (6181-0532)** RS 02 MLGY**RS 02 FLGY F (6189-0950)**

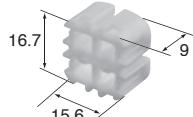
Retainer No.(6918-1651)

**3way**

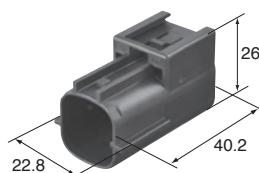
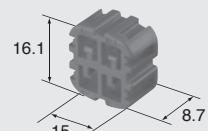
Retainer No.(6918-1654)

**M (6181-0516)** RS 03 MSB**M (6181-0671)** RS 03 MSB-GY**RS 03 FSB F (6189-0928)****RS 03 FSB-GY F (6189-1104)**

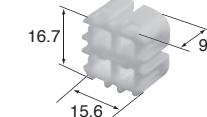
Retainer No.(6918-1652)

**4way**

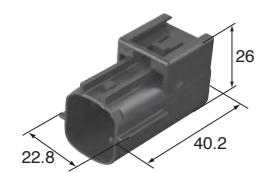
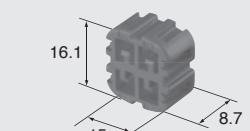
Retainer No.(6918-1598)

**M (6181-0513)** RS 04 MG  
**M (6181-0668)** RS 04 MG-GY**RS 04 FG F (6189-7756)**  
**RS 04 FG-GY F (6189-7757)**

Retainer No.(6918-1599)

**4way**

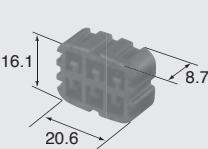
Retainer No.(6918-1598)

**RS 04 FL F (6189-7758)**  
**RS 04 FL-B F (6189-7759)**

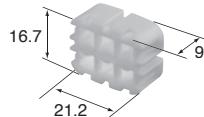
Retainer No.(6918-1599)

**6way**

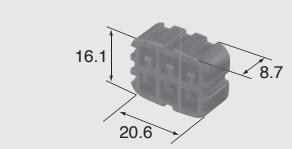
Retainer No.(6918-1600)

**M (6181-0511)** RS 06 MG  
**M (6181-0665)** RS 06 MG-DGY**RS 06 FG F (6189-7760)**  
**RS 06 FG-DGY F (6189-7761)**

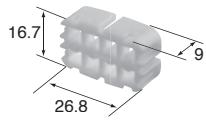
Retainer No.(6918-1601)

**6way**

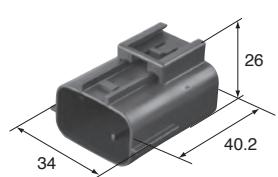
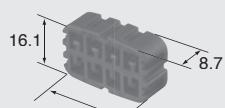
Retainer No.(6918-1600)

**RS 06 FL F (6189-7762)**  
**RS 06 FL-B F (6189-7763)**

Retainer No.(6918-1601)

**8way**

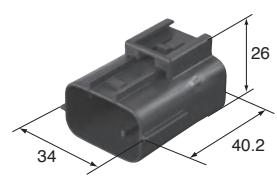
Retainer No.(6918-1602)

**M (6181-0512)** RS 08 MG**M (6181-0667)** RS 08 MG-GYRS 08 FG **F (6189-0954)**RS 08 FG-GY **F (6189-1108)**

Retainer No.(6918-1603)

**8way**

Retainer No.(6918-1602)

**M (6181-0522)** RS 08 ML**M (6181-0666)** RS 08 ML-BRS 08 FL **F (6189-0955)**RS 08 FL-B **F (6189-1109)**

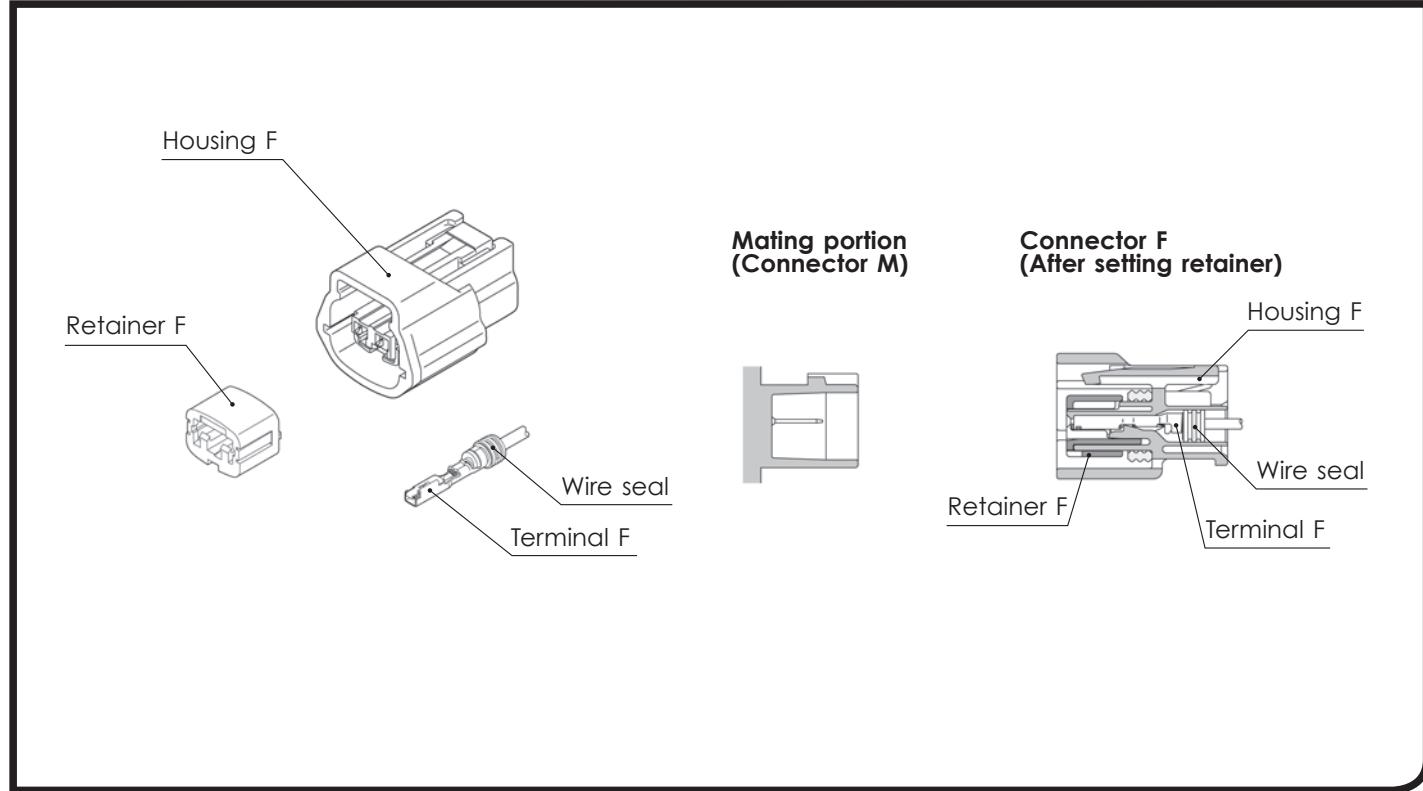
Retainer No.(6918-1603)

**G-10**

# RS SERIES for E-RS

## 2.3mm(090)

Structure / 構造



G-11

RS SERIES

2.3mm (090)

### Housing (UNIT : mm)

Ref: Terminal part No.  
ターミナル参照頁

G-02

Ref: wire seal No.  
ワイヤシール参照頁

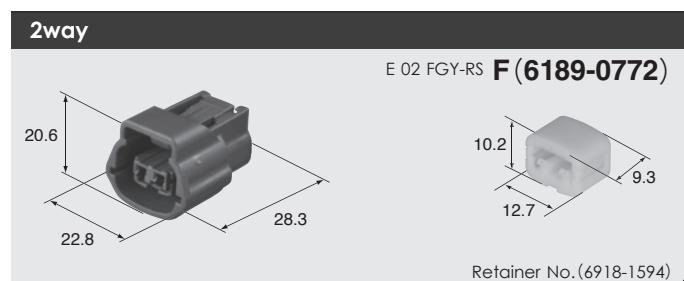
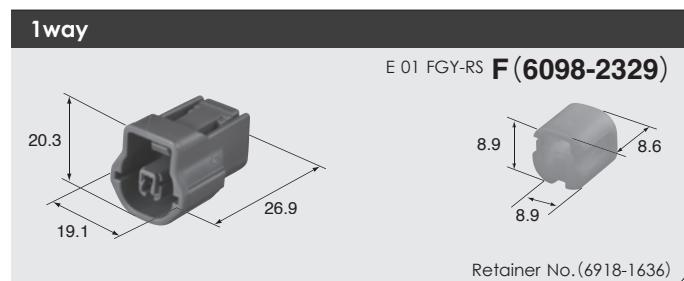
G-04

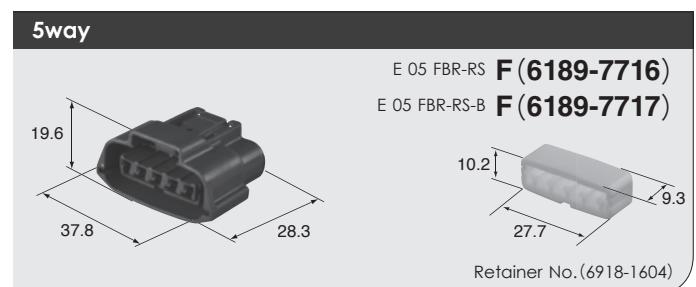
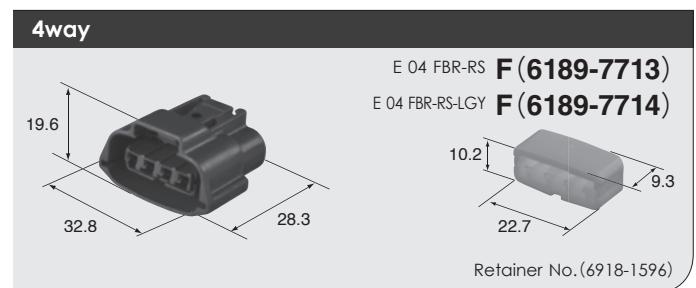
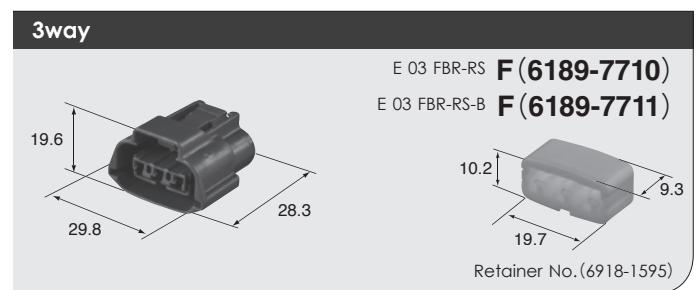
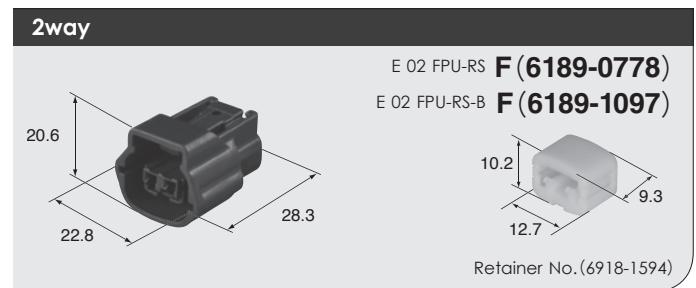
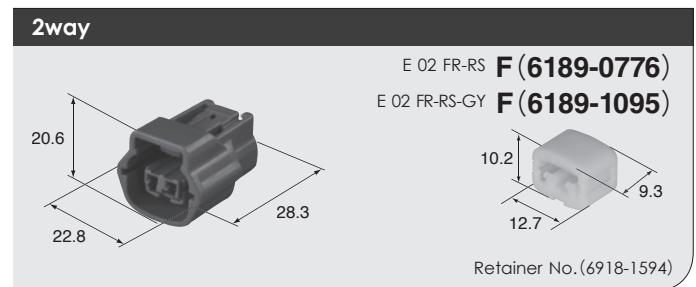
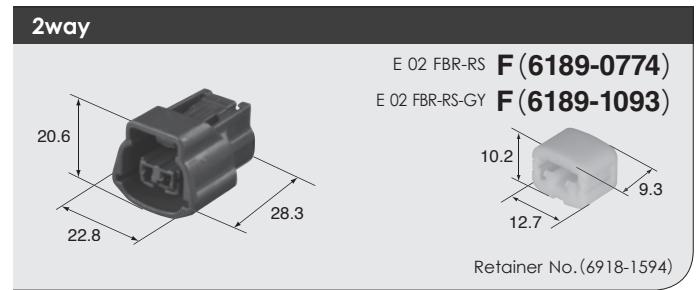
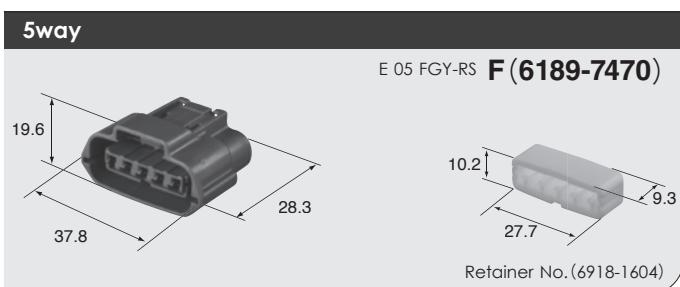
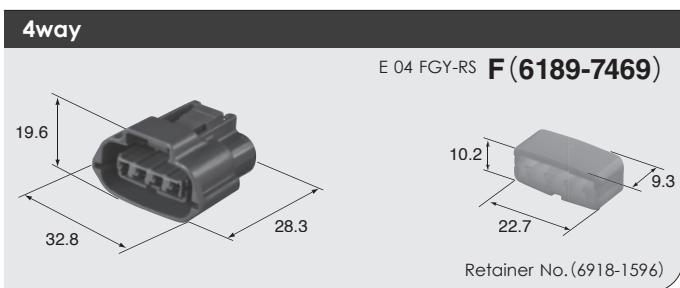
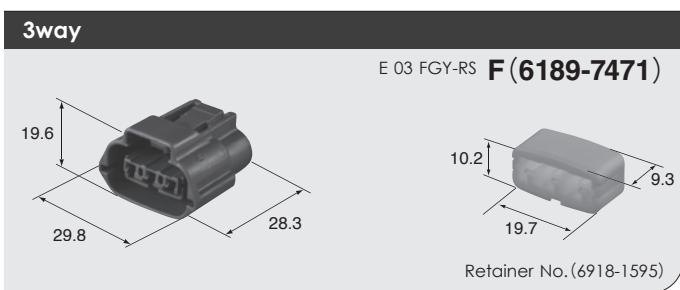
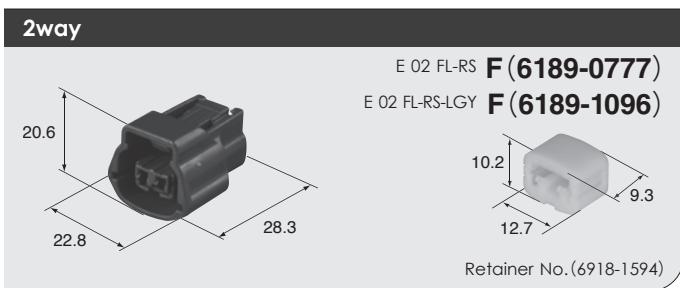
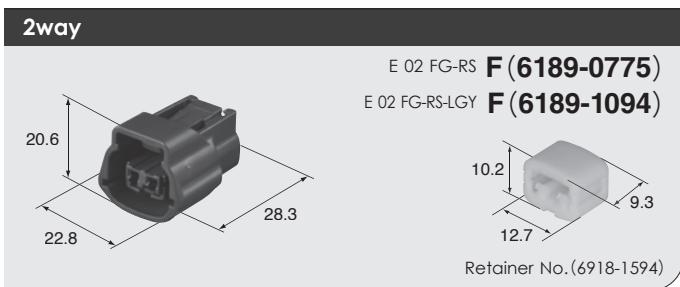
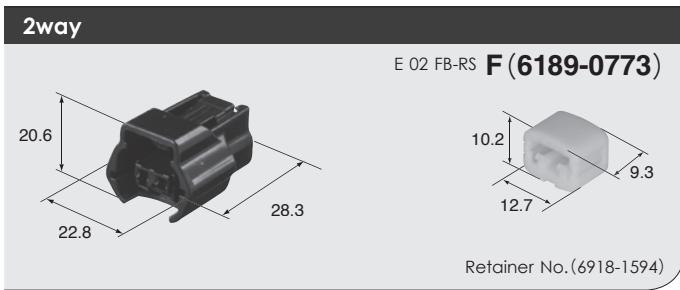
Ref: Dummy plug No.  
ダミー栓参照頁

G-04

Material  
材質

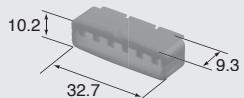
PBT





**6way**

E 06 FGY-RS **F (6189-7393)**



Retainer No.(6918-1597)

**G-13**

RS SERIES



# TL SEALED SERIES



## Features

The TL sealed connector series has a mechanism that detects terminal incomplete insertion by using a dedicated jig. This series consists of 2.3mm type supporting use in a variety of control circuits and low power circuits.

- To restrain from incomplete engagement, this series is adopted a lock mechanism with effective clear sound.
- These male connectors can be directly secured to a bracket on the car body.  
(Note: Please contact our sales staff, if you have any questions regarding the dedicated jig.)
- RoHS/ELV Compliant

## 特 長

TL 防水シリーズは、専用治具にて端子半挿入を検出する構造を採用しております。ターミナルサイズは2.3mm型で構成されており、各種の制御回路並びに低パワー回路に対応することができます。

- コネクタ半嵌合抑制として、ロック音を向上させたロック構造を採用しております。
- オスコネクタは、ボディ側のブラケットに直接固定することができます。

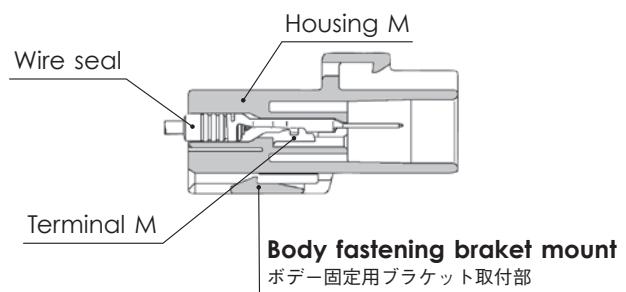
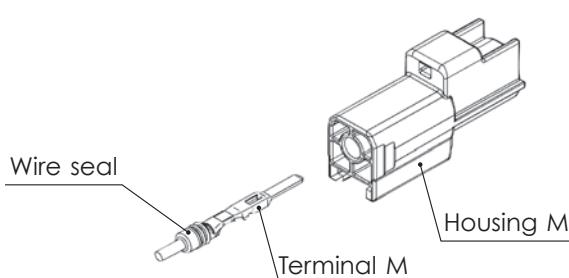
注意：専用の導通治具に関しては弊社営業担当にご確認下さい。

- RoHS／ELV 対応

# TL SEALED SERIES

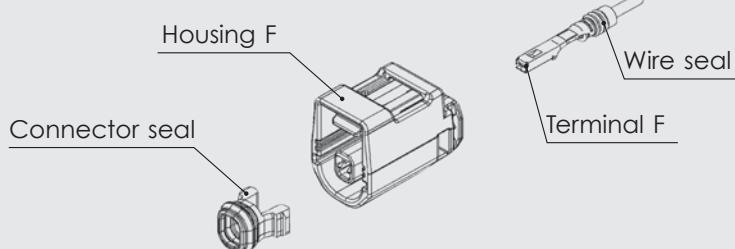
## for STANDARD 2.3mm(090)

Structure / 構造

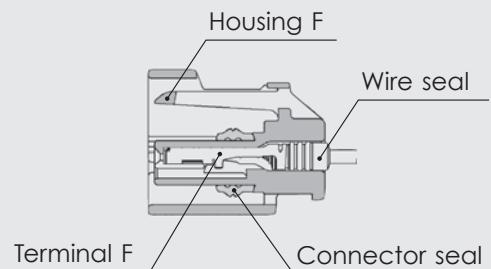


H-02

### Connector M



### Connector F



2.3mm(090)

2.3mm(090)

### Terminal (UNIT : mm)

Ref; 2.3mm Terminal detail

2.3mmターミナル参照頁

S M (8230-4472)	L-02	F (8100-1427)	L-02
M M (8230-4562)	L-02	F (8100-1429)	L-02
L M (8230-4552)	L-02	F (8100-1428)	L-02

### Wire seals (UNIT : mm)

Ref; 2.3mm Wire Seals detail

2.3mmワイヤーシール掲載頁

S (7165-0516)	J-06
M(7165-0515)	J-06
L (7165-0514)	J-06

## 2.3mm (090)

### Dummy plugs (UNIT : mm)

Ref: 2.3mm Dummy plug detail

2.3mmダミー栓掲載頁

(7165-0193) J-07

- Dummy plugs are common to M and F.
- Dummy plugs are used to blind unused terminal holes.
- ダミー栓は M、F 共用です。
- 不必要なターミナル穴を塞ぐために、ダミー栓を使用します。

H-03

## 2.3mm (090)

### Housing (UNIT : mm)

Ref: Terminal part No.  
ターミナル参照頁

L-02

Ref: wire seal No.  
ワイヤーシール参照頁

J-06

Ref: Dummy plug No.  
ダミー栓参照頁

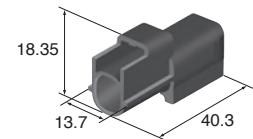
J-07

Material  
材質

PBT

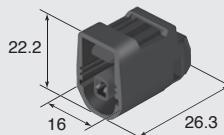
#### 1way

Color  
色相 Black  
黒



M (6181-6658)

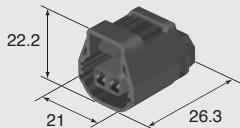
F (6189-7214)



Color  
色相 Black  
黒

#### 2way

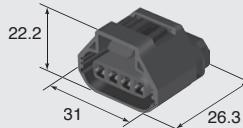
F (6189-7189)



Color  
色相 Black  
黒

#### 4way

F (6189-7188)



Color  
色相 Black  
黒

#### 5way

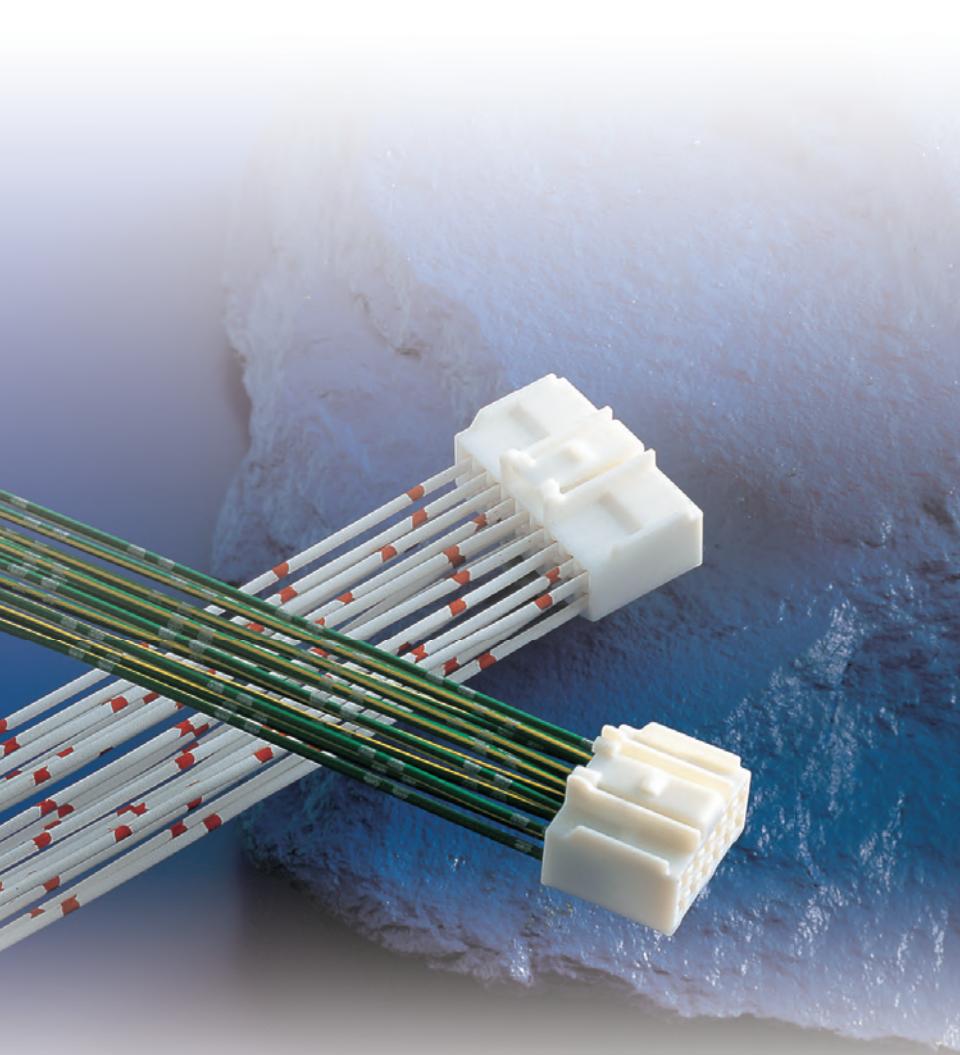
F (6189-7190)



Color  
色相 Black  
黒



# SL SERIES



## Features

The SL connector series is adopted a mechanism that detects terminal incomplete insertion by using a dedicated jig. This series consists of 1.5mm, 2.3mm and 2.8mm types classified according to the terminal size, covering an extensive array of applications from signal circuits to low power circuits.

- These connectors can be directly secured to a bracket on the car body. In addition, an extra clip can be attached to the connector to secure it to the car body.  
(Note: Please contact our sales staff, if you have any questions regarding the dedicated jig.)
- RoHS/ELV Compliant

## 特 長

SL シリーズコネクタは、専用治具にて端子半挿入を検出する構造を採用しております。ターミナルサイズにより1.5mm・2.3mm・2.8mm型で構成されており、信号回路からパワー回路まで幅広くご利用いただけます。

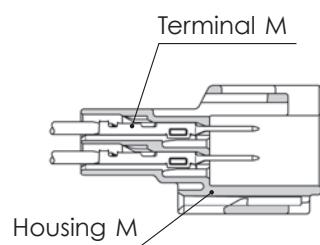
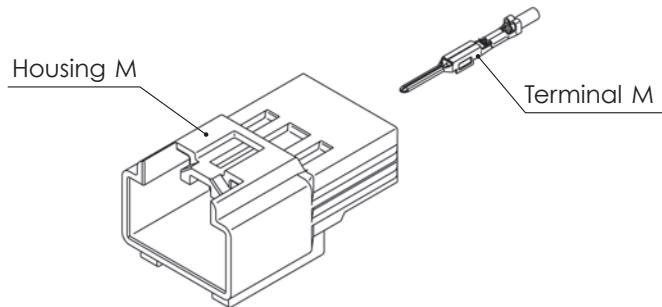
- コネクタは、ボディ側のブラケットに直接固定することができます。  
またコネクタにはボディに固定するためのクラップ(クリップ)を装着することができます。  
注意：専用の導通治具に関しては弊社営業担当にご確認下さい。

- RoHS／ELV 対応

# SL SERIES for STANDARD

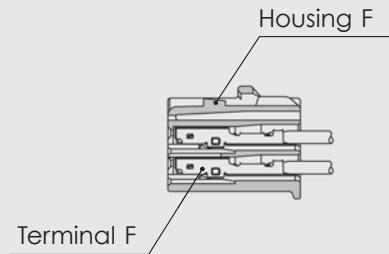
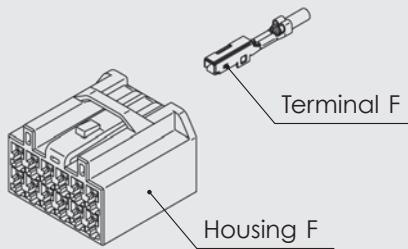
## 1.5mm(060)

Structure／構造



I-02

Connector M



Connector F

1.5mm (060)

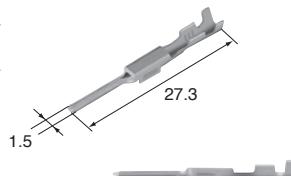
### Terminal (UNIT : mm)

Note) L size terminal can be used for 14 poled connectors with insertion cavity specified.  
For details please contact our sales staff.

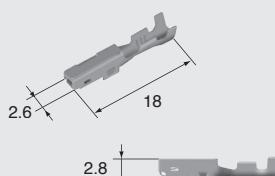
※Lサイズターミナルの使用できるコネクタは限定されます。  
必ず弊社営業担当にお問い合わせください。

(S)

Cable size (mm <sup>2</sup> ) 適用電線サイズ	0.3~0.5
Material 材質	Heat-resistant copper alloy
Surface treatment 表面処理	Tin-plated Snメッキ



M (8100-3382)



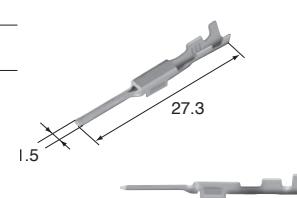
Cable size (mm <sup>2</sup> ) 適用電線サイズ	0.3~0.5
Material 材質	Heat-resistant copper alloy
Surface treatment 表面処理	Tin-plated Snメッキ

F (8100-3391)

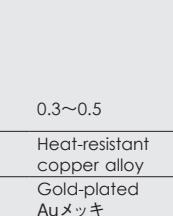


(S)

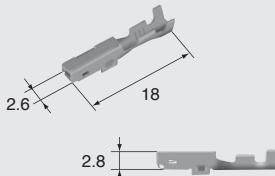
Cable size (mm <sup>2</sup> ) 適用電線サイズ	0.3~0.5
Material 材質	Heat-resistant copper alloy
Surface treatment 表面処理	Gold-plated Auメッキ



F (8240-0135)



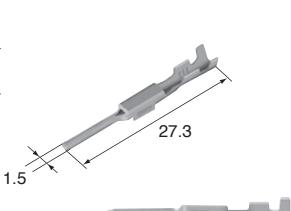
M (8230-4883)



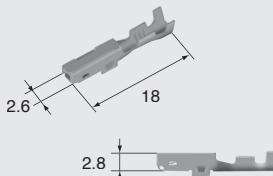
Cable size (mm <sup>2</sup> ) 適用電線サイズ	0.3~0.5
Material 材質	Heat-resistant copper alloy
Surface treatment 表面処理	Gold-plated Auメッキ

(M)

Cable size (mm <sup>2</sup> ) 適用電線サイズ	0.75, 0.85~1.25
Material 材質	Heat-resistant copper alloy
Surface treatment 表面処理	Tin-plated Snメッキ



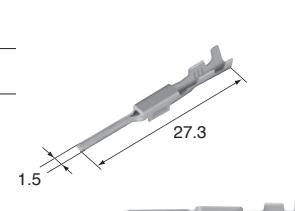
M (8100-3383)



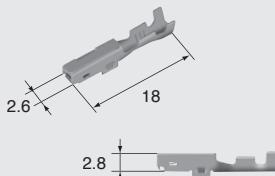
Cable size (mm <sup>2</sup> ) 適用電線サイズ	0.75, 0.85~1.25
Material 材質	Heat-resistant copper alloy
Surface treatment 表面処理	Tin-plated Snメッキ

(L)

Cable size (mm <sup>2</sup> ) 適用電線サイズ	2.0
Material 材質	Heat-resistant copper alloy
Surface treatment 表面処理	Tin-plated Snメッキ



M (8100-3384)



Cable size (mm <sup>2</sup> ) 適用電線サイズ	2.0
Material 材質	Heat-resistant copper alloy
Surface treatment 表面処理	Tin-plated Snメッキ

F (8100-3393)



1.5mm (060)

**Housing** (UNIT : mm)Ref: Terminal part No.  
ターミナル参照頁

I-02

Material  
材質

PBT

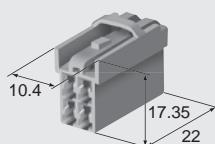
Note) Connector can be used together with 2mm<sup>2</sup> wire are 14 poled connectors.

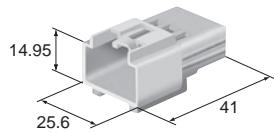
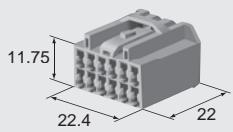
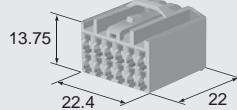
For details of each product, please contact our sales staff.

※Lサイズターミナルの使用できるコネクタは限定されます。  
必ず弊社営業担当にお問い合わせください。

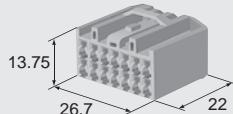
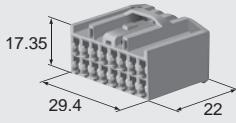
4way

F (6098-3456)

Color  
色相Natural  
自然色

**12way**Color  
色相Natural  
自然色**M (6098-3449)**Color  
色相Natural  
自然色**F (6098-8482)****12way****F (6098-4876)**Color  
色相Natural  
自然色**14way****F (6098-4877)**

Note)

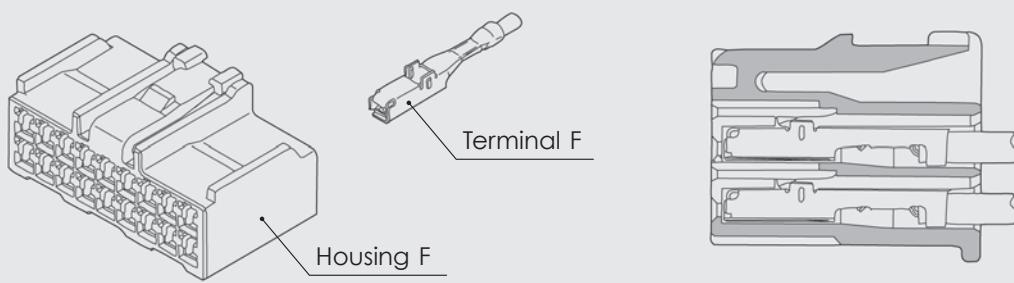
Color  
色相Natural  
自然色**16way****F (6098-3453)**Color  
色相Natural  
自然色

# SL SERIES for STANDARD

## 2.3mm(090)

Structure／構造

Connector F



I- 05

SL SERIES

2.3mm (090)

### Terminal (UNIT : mm)

Ref; 2.3mm Terminal detail  
2.3mmターミナル参照頁

S M (8230-4492) A-10 F (8240-4882) A-10

M M (8230-4502) A-10 F (8240-4892) A-10

L M (8230-4512) A-10 F (8240-4942) A-10

Regarding "Gold-plated Terminal", please refer "A-10".  
AuメッキターミナルはA-10ご参照

## 2.3mm (090)

### Housing (UNIT : mm)

Ref: Terminal part No.  
ターミナル参照頁

A-10

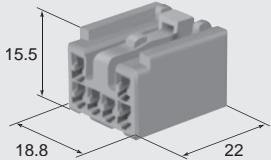
Material  
材質

PBT

I-06

### 6way

F (6240-5339)

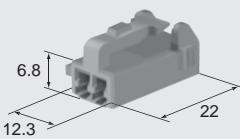


Color  
色相

Natural  
自然色

### 2way

F (6240-5337)



12.3

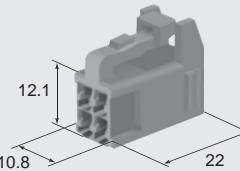
6.8  
22

Color  
色相

Natural  
自然色

### 4way

F (6098-8478)



10.8

12.1  
22

Color  
色相

Natural  
自然色

### 6way

Color  
色相

Note  
備考

Natural  
自然色  
With body fastening clamp  
回り止めクランプ付

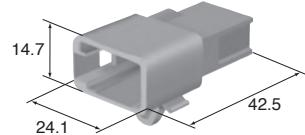
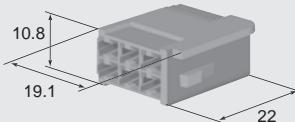


Plate thickness range for clamp :  
 $t=0.6\sim2.0\text{mm}$   
Hole:  $7.2\text{mm}\times12\text{mm}$

M (6098-2679)

F (6098-2680)

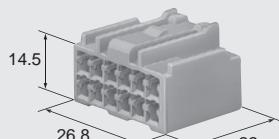


Color  
色相

Natural  
自然色

### 12way

F (6098-1714)

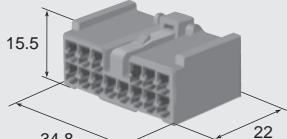


Color  
色相

Natural  
自然色

### 14way

F (6098-1747)

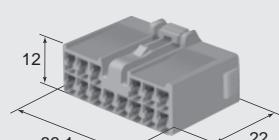


Color  
色相

Natural  
自然色

### 14way

F (6098-2101)

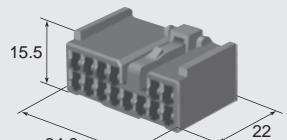


Color  
色相

Natural  
自然色

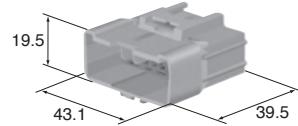
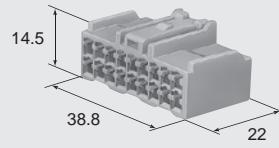
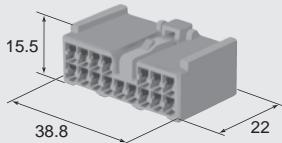
### 14way

F (6098-1774)



Color  
色相

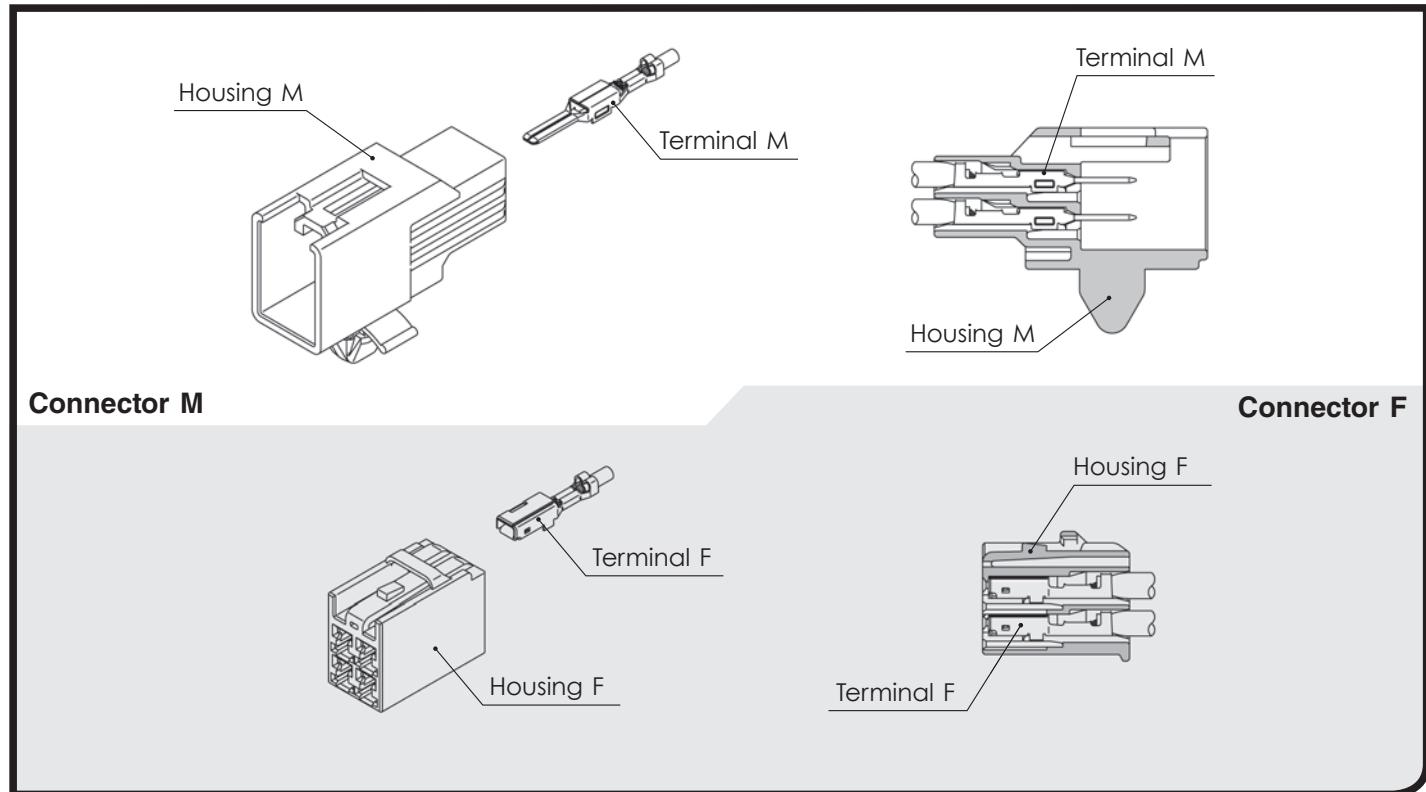
Black  
黒

**16way**Color  
色 相Natural  
自然色**18way****F (6098-1627)**Color  
色 相Natural  
自然色**M (6098-1744)****F (6098-1746)**Color  
色 相Natural  
自然色

# SL SERIES for STANDARD

## 2.8mm(110)

### Structure／構造



Connector M

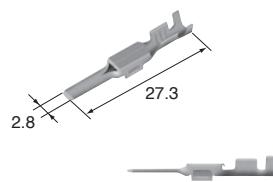
Connector F

### 2.8mm(110)

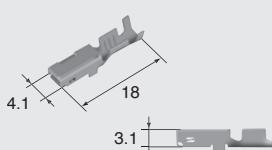
Terminal (UNIT: mm)

#### (S)

Cable size (mm <sup>2</sup> ) 適用電線サイズ	0.3~0.5
Material 材質	Heat-resistant copper alloy
Surface treatment 表面処理	Tin-plated Snメッキ



M (8100-3385)

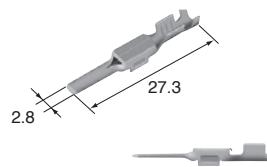
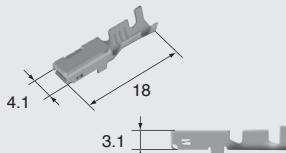


F (8100-3394)

Cable size (mm <sup>2</sup> ) 適用電線サイズ	0.3~0.5
Material 材質	Heat-resistant copper alloy
Surface treatment 表面処理	Tin-plated Snメッキ

**(M)**

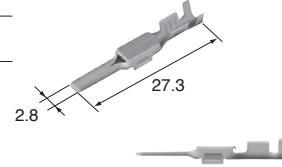
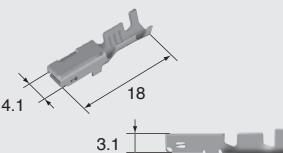
<b>Cable size (mm<sup>2</sup>)</b> 適用電線サイズ	0.85~1.25
<b>Material</b> 材質	Heat-resistant copper alloy
<b>Surface treatment</b> 表面処理	Tin-plated Snメッキ

**M (8100-3386)**

<b>Cable size (mm<sup>2</sup>)</b> 適用電線サイズ	0.85~1.25
<b>Material</b> 材質	Heat-resistant copper alloy
<b>Surface treatment</b> 表面処理	Tin-plated Snメッキ

**F (8100-3395)****(L)**

<b>Cable size (mm<sup>2</sup>)</b> 適用電線サイズ	2.0~3.0
<b>Material</b> 材質	Heat-resistant copper alloy
<b>Surface treatment</b> 表面処理	Tin-plated Snメッキ

**F (8100-3396)**

<b>Cable size (mm<sup>2</sup>)</b> 適用電線サイズ	2.0~3.0
<b>Material</b> 材質	Heat-resistant copper alloy
<b>Surface treatment</b> 表面処理	Tin-plated Snメッキ

## 2.8mm (110)

## Housing (UNIT : mm)

Ref: Terminal part No.  
ターミナル参照頁

I-08

**Material**  
材質

PBT

## 4way

<b>Color</b> 色相	Natural 自然色
<b>Note</b> 備考	With body fastening clamp 回り止めクランプ付

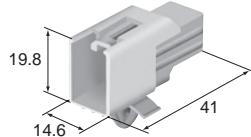
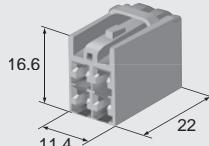


Plate thickness range for clamp:  
 $t=0.6\sim2.0\text{mm}$   
Hole=7.2mm×10.2mm

**M (6098-3452)****F (6098-8480)**

<b>Color</b> 色相	Natural 自然色
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# SL SERIES for HYBRID

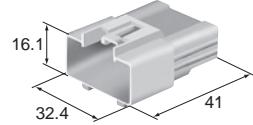
I- 10

14way(10+4)

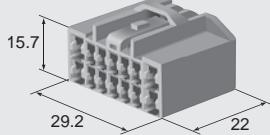
Color  
色 相

Natural  
自然色

Note)



M (6098-3450)



Color  
色 相

Natural  
自然色

F (6098-3458)

Note)

1.5mm, 2.8mm (060, 110)

## Housing (UNIT : mm)

Ref: Terminal part No. [1.5mm] I-02  
ターミナル参照頁 [2.8mm] I-08

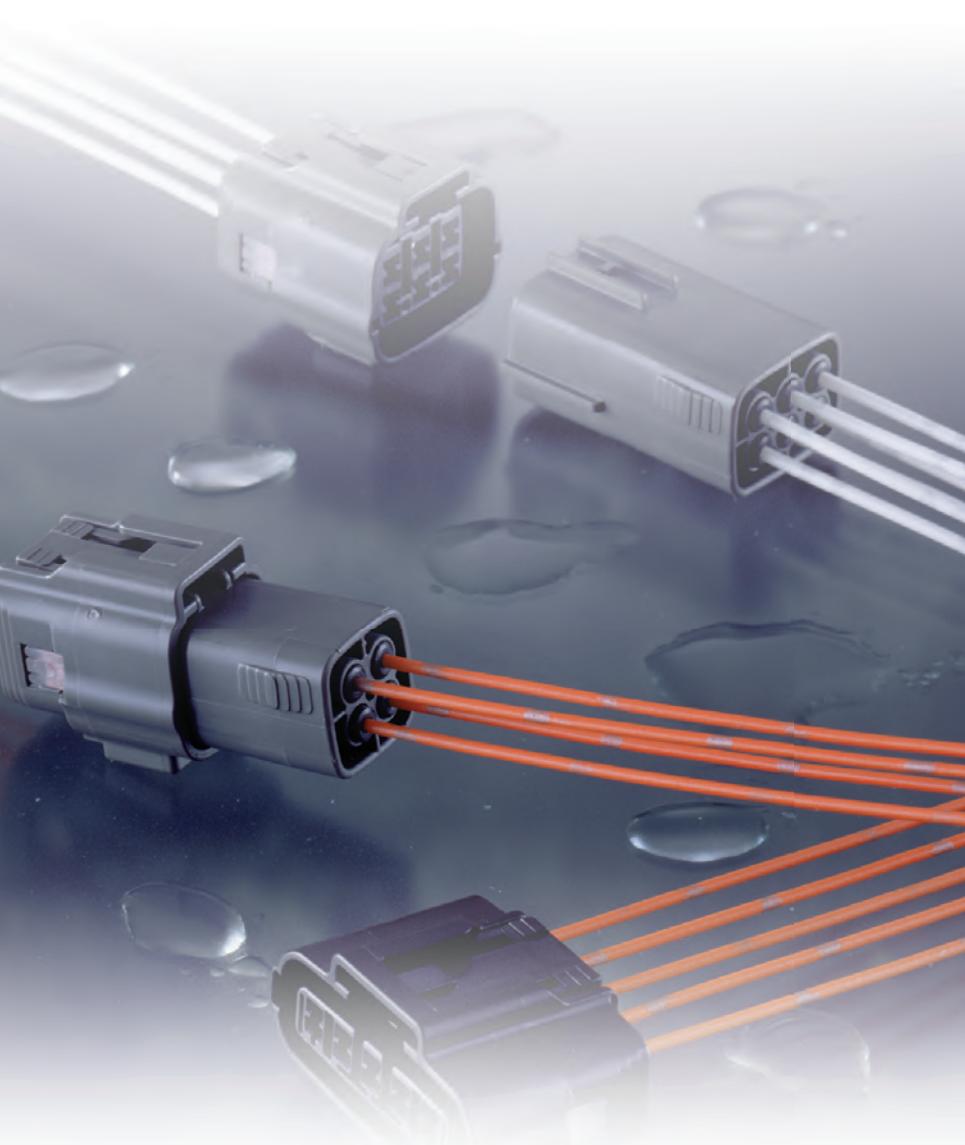
Material  
材 質 PBT

No. of way/ ( ) corresponds to 1.5mm, 2.8mm, in order from left to right.  
Note) Connector can be used together with 2mm<sup>2</sup> wire are 14 poled connectors.

For details of each product, please contact our sales staff.

極数／( )内表示：左から1.5mm 極数、2.8mm 極数  
※Iサイズターミナルの使用できるコネクタは限定されます。  
必ず弊社営業担当にお問い合わせください。

# SL SEALED SERIES



## Features

The SL sealed connector series is adopted a mechanism that detects terminal incomplete insertion by using a dedicated jig. This series consists of 1.5mm, 2.3mm and 8.0mm types classified according to the terminal size, covering an extensive array of applications from signal circuits to low power circuits.

- These connectors can be directly secured to a bracket on the car body. In addition, an extra clip can be attached to the connector to secure it to the car body.  
(Note: Please contact our sales staff, if you have any questions regarding the dedicated jig.)
- RoHS/ELV Compliant

## 特 長

SL 防水シリーズは、専用治具にて端子半挿入を検出する構造を採用しております。ターミナルサイズにより1.5mm・2.3mm・8.0mm型で構成されており、信号回路からパワー回路まで幅広くご利用いただけます。

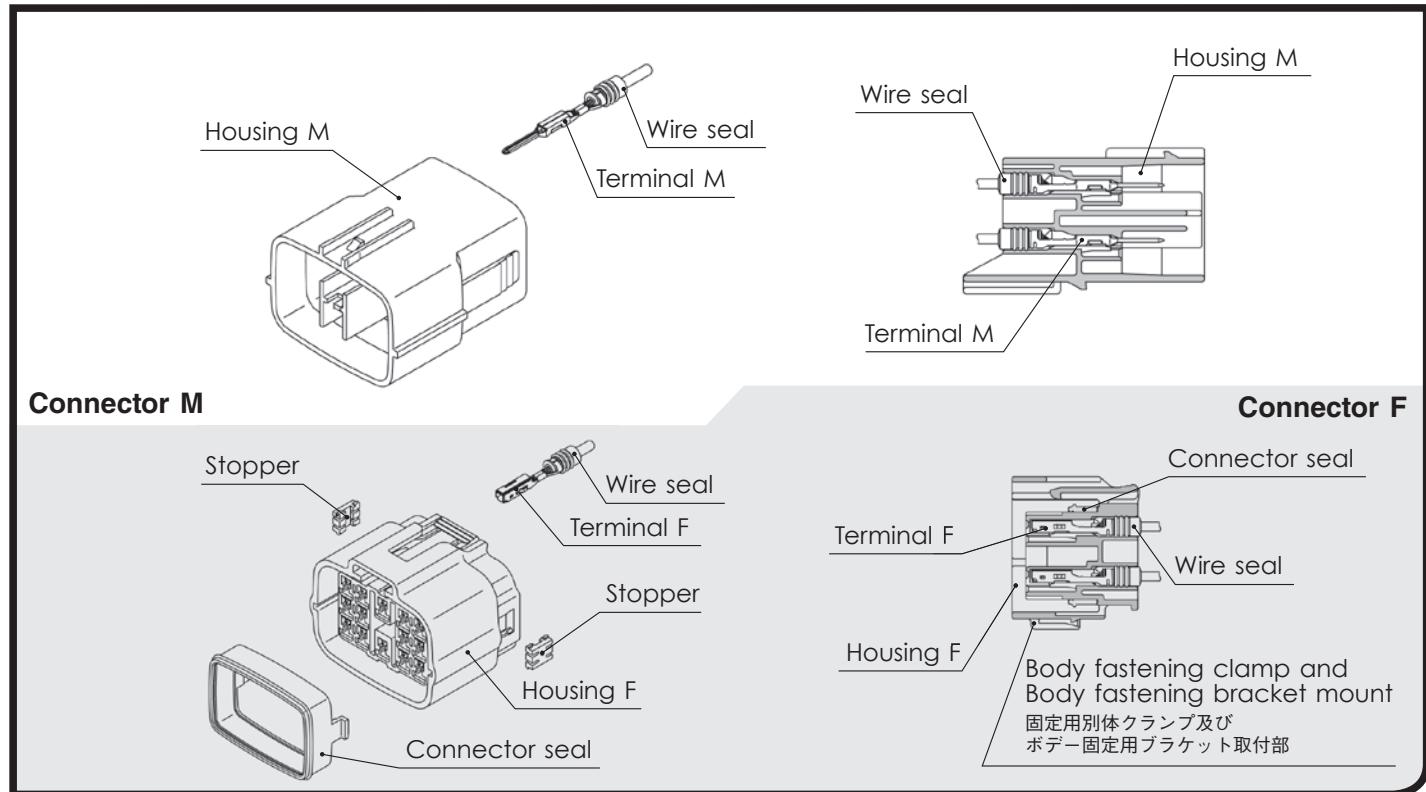
- コネクタは、ボディ側のブラケットに直接固定することができます。  
またコネクタにはボディに固定するためのクランプ(クリップ)を装着することができます。  
注意：専用の導通治具に関しては弊社営業担当にご確認下さい。

- RoHS／ELV 対応

# SL SEALED SERIES for STANDARD

## 1.5mm(060)

### Structure / 構造



1.5mm (060)

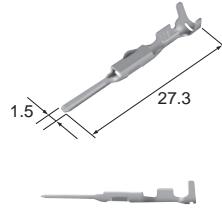
**Terminal** (UNIT : mm)

※ For terminal selection, please contact our sales staff.

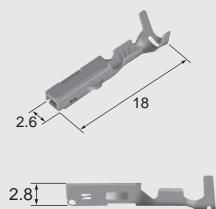
※ ターミナル選定にあたっては、必ず弊社営業担当にお問い合わせください。

(S)

<b>Cable size (mm<sup>2</sup>)</b> 適用電線サイズ	0.3~0.5
<b>Material</b> 材質	Heat-resistant copper alloy
<b>Surface treatment</b> 表面処理	Tin-plated Snメッキ



M (8100-3388)

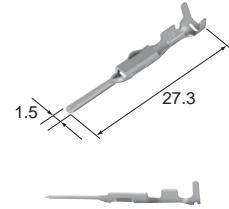


F (8100-3397)

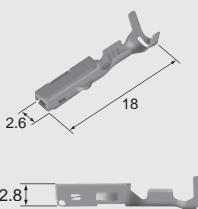
<b>Cable size (mm<sup>2</sup>)</b> 適用電線サイズ	0.3~0.5
<b>Material</b> 材質	Heat-resistant copper alloy
<b>Surface treatment</b> 表面処理	Tin-plated Snメッキ

(S)

<b>Cable size (mm<sup>2</sup>)</b> 適用電線サイズ	0.3~0.5
<b>Material</b> 材質	Heat-resistant copper alloy
<b>Surface treatment</b> 表面処理	Gold-plated Auメッキ



M (8100-3504)

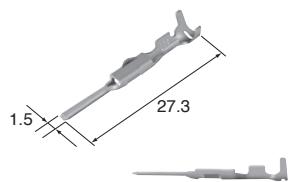


F (8100-3402)

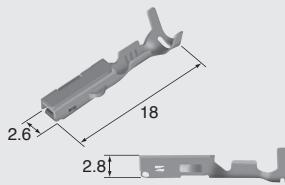
<b>Cable size (mm<sup>2</sup>)</b> 適用電線サイズ	0.3~0.5
<b>Material</b> 材質	Heat-resistant copper alloy
<b>Surface treatment</b> 表面処理	Gold-plated Auメッキ

(M)

<b>Cable size (mm<sup>2</sup>)</b> 適用電線サイズ	0.75~0.85
<b>Material</b> 材質	Heat-resistant copper alloy
<b>Surface treatment</b> 表面処理	Tin-plated Snメッキ



M (8100-3389)



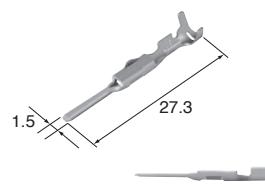
F (8100-3398)

<b>Cable size (mm<sup>2</sup>)</b> 適用電線サイズ	0.75~0.85
<b>Material</b> 材質	Heat-resistant copper alloy
<b>Surface treatment</b> 表面処理	Tin-plated Snメッキ

(M)

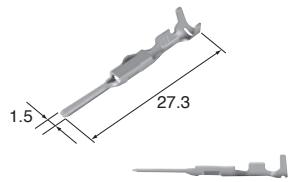
M (8100-3403)

<b>Cable size (mm<sup>2</sup>)</b> 適用電線サイズ	0.75~0.85
<b>Material</b> 材質	Heat-resistant copper alloy
<b>Surface treatment</b> 表面処理	Gold-plated Auメッキ

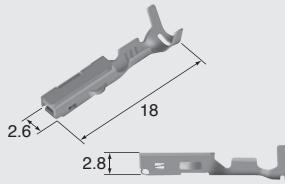


(L)

<b>Cable size (mm<sup>2</sup>)</b> 適用電線サイズ	1.25~2.0
<b>Material</b> 材質	Heat-resistant copper alloy
<b>Surface treatment</b> 表面処理	Tin-plated Snメッキ



M (8100-3390)



F (8100-3399)

<b>Cable size (mm<sup>2</sup>)</b> 適用電線サイズ	1.25~2.0
<b>Material</b> 材質	Heat-resistant copper alloy
<b>Surface treatment</b> 表面処理	Tin-plated Snメッキ

## 1.5mm (060)

### Wire seals (UNIT : mm)

Ref; 1.5mm Terminal detail

1.5mmターミナル参照頁

S (7165-0516) J-07

M (7165-0515) J-07

L (7165-0514) J-07

J-04

## 1.5mm (060)

### Housing (UNIT : mm)

Ref: Terminal part No.

ターミナル参照頁 J-02

Ref: wire seal No.

ワイヤーシール参照頁 J-06

Ref: Dummy plug No.

ダミー栓参照頁 J-07

Material

材 質 PBT

## 1.5mm (060)

### Dummy plugs (UNIT : mm)

Ref; 1.5mm Dummy plug detail

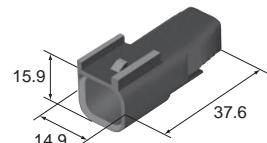
1.5mmダミー栓掲載頁

(7161-9787) B-15

(7165-0193) J-07

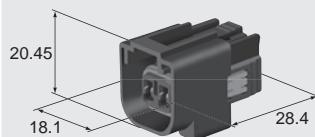
#### 2way

Color  
色 相 Black  
黒  
Note  
備 考 J-11  
Clamp:TYPE2



#### M (6181-6614)

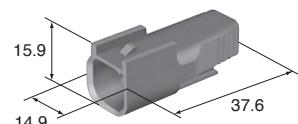
#### F (6189-1076)



Color  
色 相 Black  
黒

#### 2way

Color  
色 相 Black  
黒  
Note  
備 考 J-11  
Clamp:TYPE2



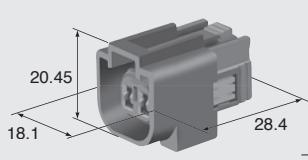
#### 2way

Color  
色 相 Dark Gray  
濃灰  
Note  
備 考 J-11  
Clamp:TYPE2



#### M (6181-6509)

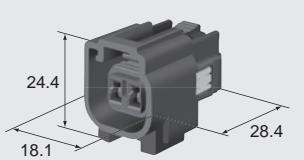
#### F (6189-1073)



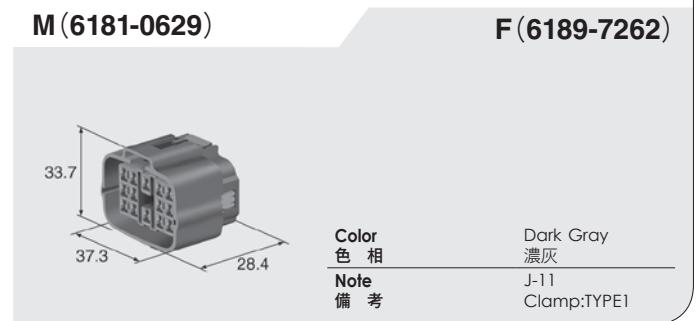
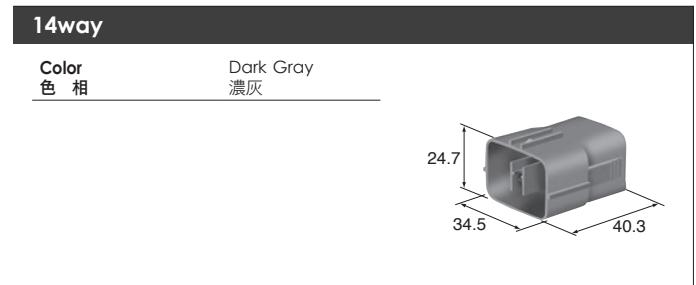
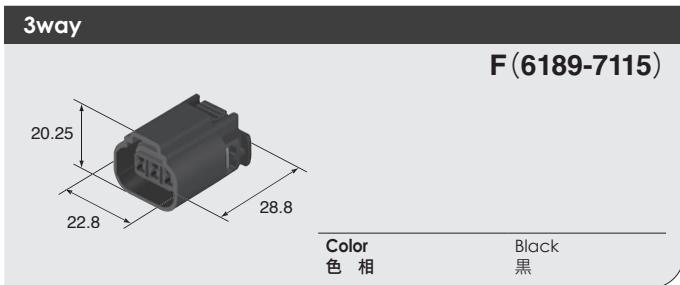
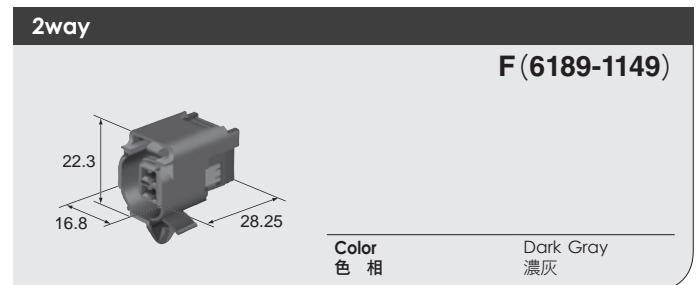
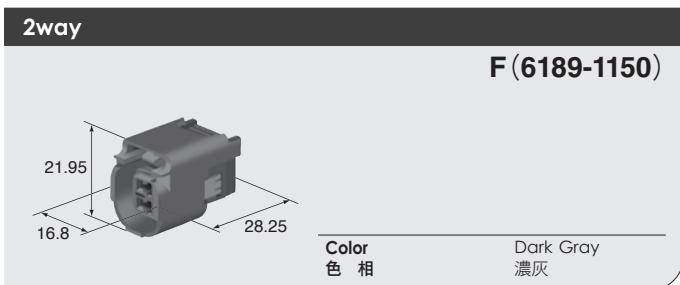
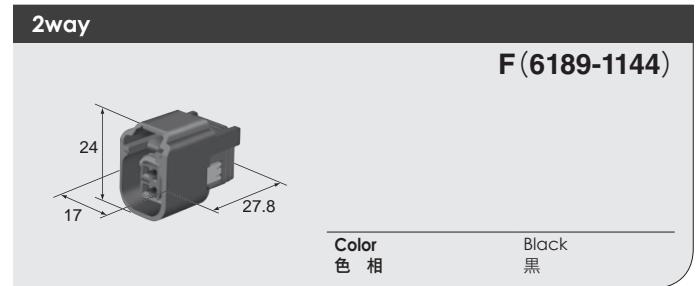
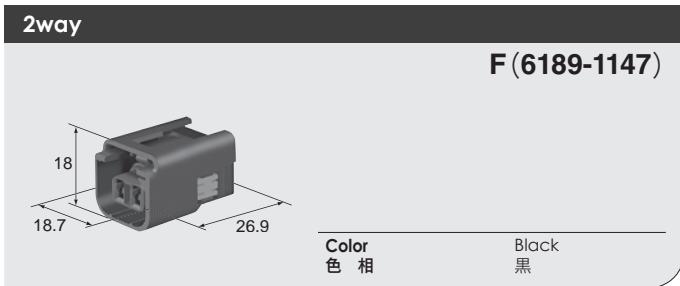
Color  
色 相 Dark Gray  
濃灰

#### M (6181-6492)

#### F (6189-1115)



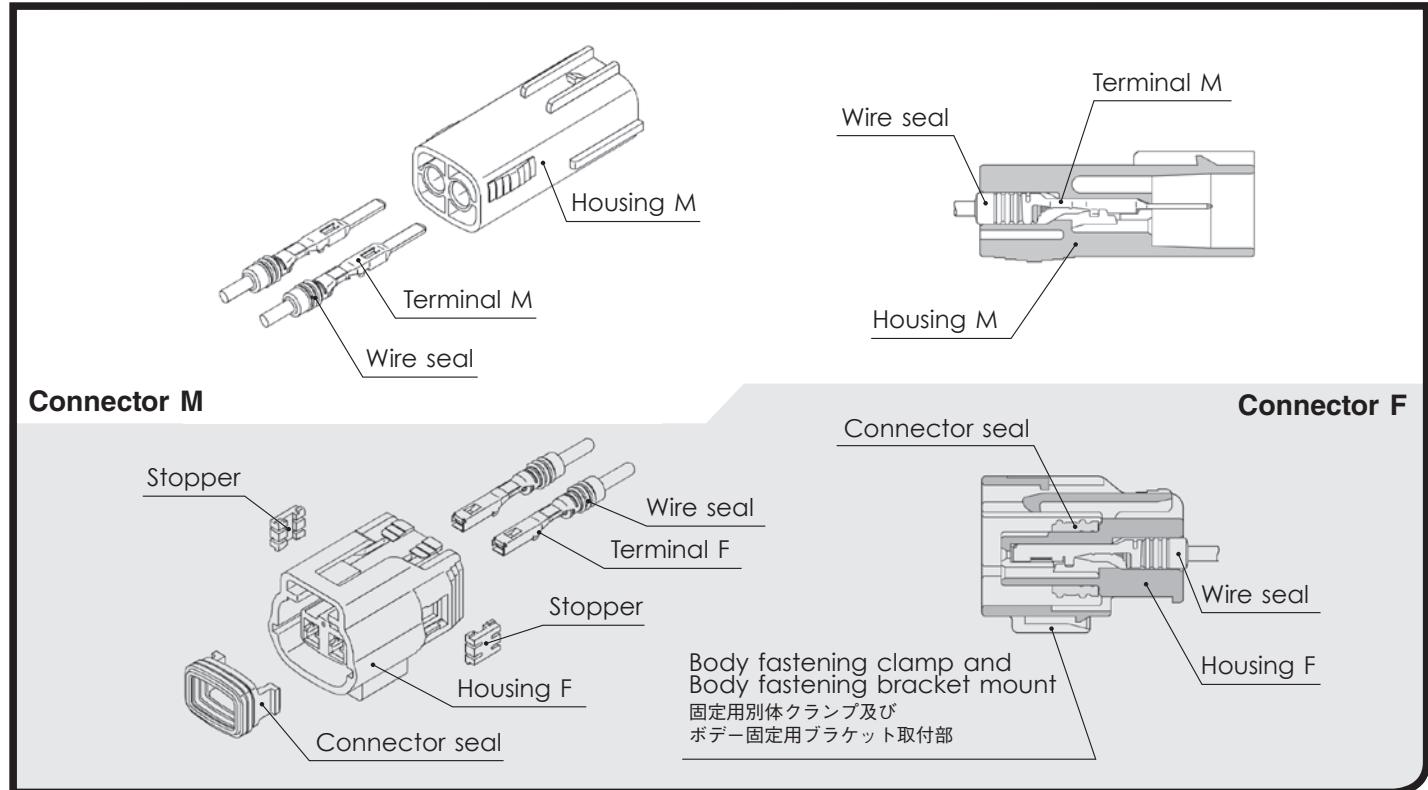
Color  
色 相 Black  
黒  
Note  
備 考 J-11  
Clamp:TYPE1



# SL SEALED SERIES for STANDARD

## 2.3mm(090)

### Structure / 構造



2.3mm(090)

### Terminal (UNIT : mm)

Ref: 2.3mm Terminal detail  
2.3mmターミナル参照頁

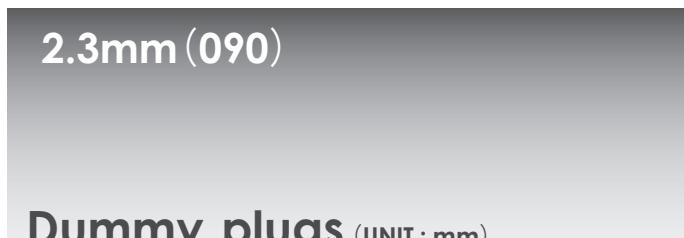
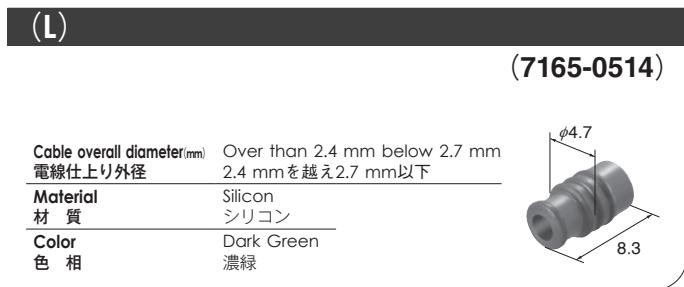
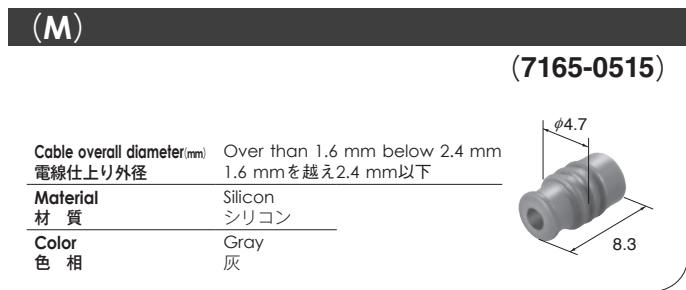
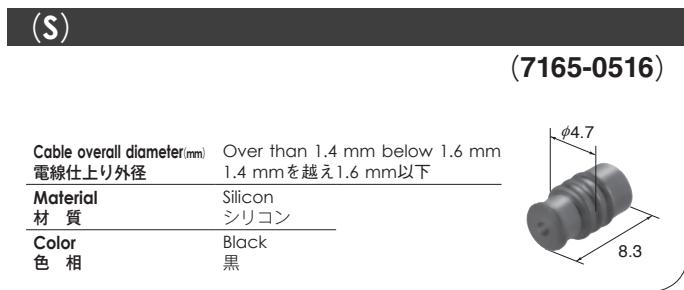
S (8230-4472)	L-02	F (8100-1427)	L-02
M (8230-4562)	L-02	F (8100-1429)	L-02
L (8230-4552)	L-02	F (8100-1428)	L-02

Regarding "Gold-plated Terminal", please refer "L-02".  
AuメッキターミナルはL-02をご参照

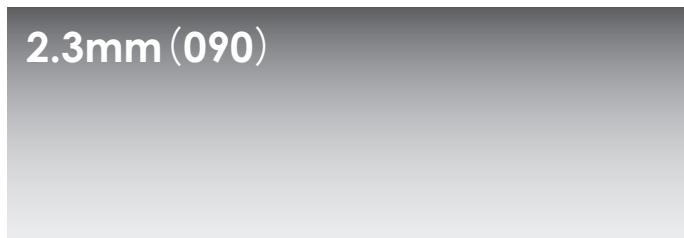
2.3mm(090)

### Wire seals (UNIT : mm)

The wire seals are common to M and F.  
ワイヤシールはM、F共用です。

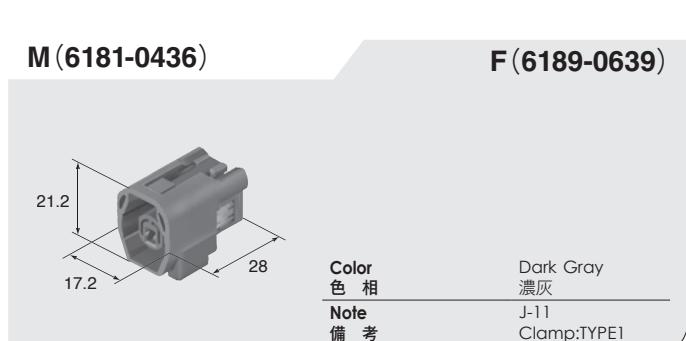


- Dummy plugs are common to M and F.
- Dummy plugs are used to blind unused terminal holes.
- ダミー栓は M、F 共用です。
- 不必要なターミナル穴を塞ぐために、ダミー栓を使用します。



## Housing (UNIT : mm)

Ref: Terminal part No. ターミナル参照頁	L-02
Ref: wire seal No. ワイヤシール参照頁	J-06
Ref: Dummy plug No. ダミー栓参照頁	B-15 J-07
Material 材質	PBT



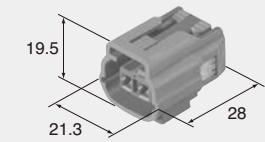
## 2way

Color  
色相

Dark Gray  
濃灰



M (6181-0437)



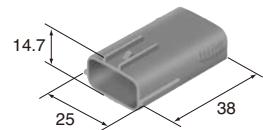
Color  
色相  
Note  
備考

Dark Gray  
濃灰  
J-11  
Clamp:TYPE1

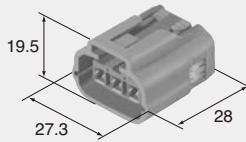
## 3way

Color  
色相

Dark Gray  
濃灰



M (6181-0438)



Color  
色相  
Note  
備考

F (6189-7784)

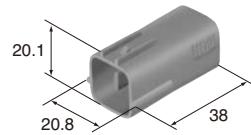
Dark Gray  
濃灰  
J-11  
Clamp:TYPE1

J-08

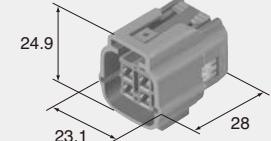
## 4way

Color  
色相

Dark Gray  
濃灰



M (6181-0439)



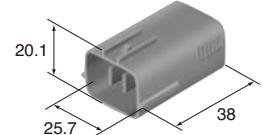
Color  
色相  
Note  
備考

Dark Gray  
濃灰  
J-11  
Clamp:TYPE1

## 6way

Color  
色相

Dark Gray  
濃灰



M (6181-0440)



Color  
色相  
Note  
備考

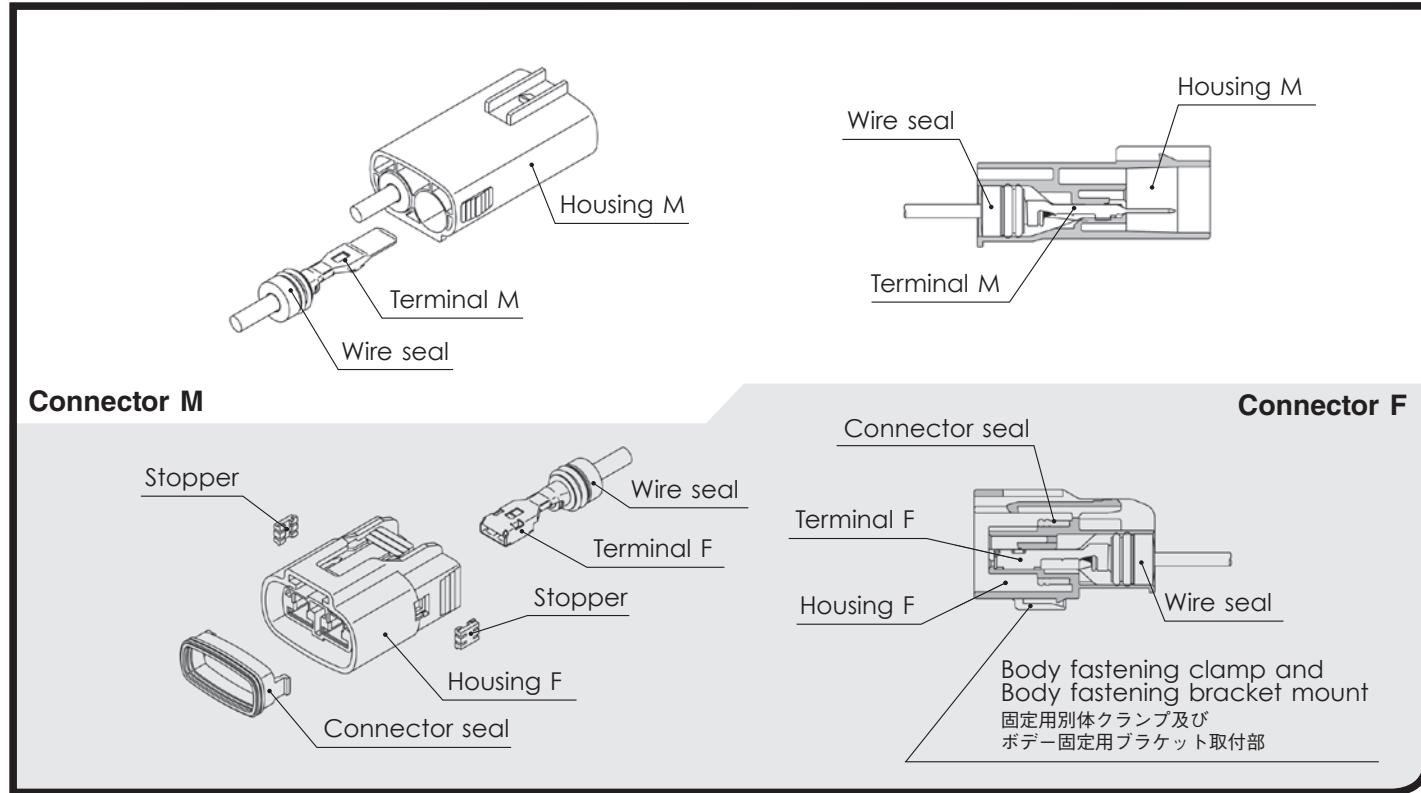
F (6189-0648)

Dark Gray  
濃灰  
J-11  
Clamp:TYPE1

# SL SEALED SERIES for STANDARD

## 8.0mm (312)

Structure / 構造



8.0mm (312)

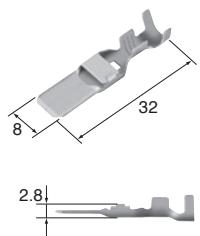
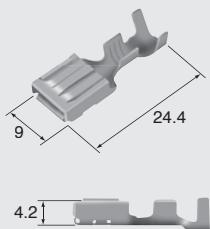
### Terminal (UNIT : mm)

※ For terminal selection, please contact our sales staff.

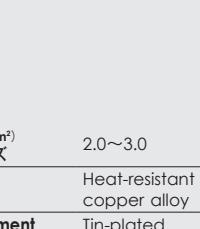
※ ターミナル選定にあたっては、必ず弊社営業担当にお問い合わせください。

## (M)

<b>Cable size (mm<sup>2</sup>)</b> 適用電線サイズ	2.0~3.0
<b>Material</b> 材質	Brass 黄銅
<b>Surface treatment</b> 表面処理	Tin-plated Snメッキ

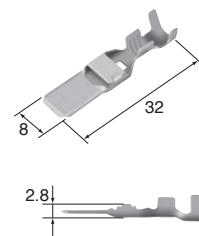
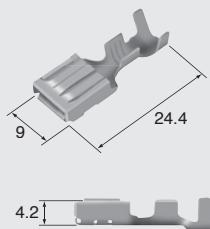
**M (8100-3259)**

<b>Cable size (mm<sup>2</sup>)</b> 適用電線サイズ	2.0~3.0
<b>Material</b> 材質	Heat-resistant copper alloy
<b>Surface treatment</b> 表面処理	Tin-plated Snメッキ

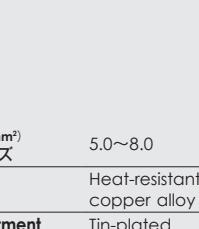
**F (8100-3257)**

## (L)

<b>Cable size (mm<sup>2</sup>)</b> 適用電線サイズ	5.0~8.0
<b>Material</b> 材質	Brass 黄銅
<b>Surface treatment</b> 表面処理	Tin-plated Snメッキ

**M (8100-3260)**

<b>Cable size (mm<sup>2</sup>)</b> 適用電線サイズ	5.0~8.0
<b>Material</b> 材質	Heat-resistant copper alloy
<b>Surface treatment</b> 表面処理	Tin-plated Snメッキ

**F (8100-3258)**

J-10

## 8.0mm (312)

### Wire seals (UNIT : mm)

Ref; 8.0mm Wire Seals detail  
8.0mmワイヤシール掲載頁

**SS (7165-0683)** B-24**S (7165-0400)** B-24**M (7165-0392)** B-24**L (7165-0393)** B-24

The wire seals are common to M and F.

ワイヤシールは M、F 共用です。

## 8.0mm (312)

### Housing (UNIT : mm)

Ref: Terminal part No.  
ターミナル参照頁 J-09

Ref: wire seal No.  
ワイヤシール参照頁 B-24

Ref: Dummy plug No.  
ダミー栓参照頁 B-25

**Material**  
材質 PBT

## 8.0mm (312)

### Dummy plugs (UNIT : mm)

Ref; 8.0mm Dummy plug detail  
8.0mmダミー栓掲載頁

**(7165-0180)** B-25

- Dummy plugs are common to M and F.
- Dummy plugs are used to blind unused terminal holes.
- ダミー栓は M、F 共用です。
- 不必要なターミナル穴を塞ぐために、ダミー栓を使用します。

### 2way

<b>Color</b> 色相	Dark Gray 濃灰
--------------------	-----------------

**M (6181-0613)**

<b>Color</b> 色相	Dark Gray 濃灰
<b>Note</b> 備考	J-11 Clamp:TYPE1

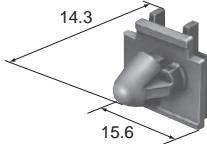
**F (6189-0915)**

# SL SEALED SERIES COMMON USE PARTS

Type 1

(6810-1584)

Material 材質	PBT
Color 色相	Brown 茶
hole size 穴径	7.2×10.2
Plate thickness range for clamp クランプ適合板厚	$t=0.7 \sim 2.0$



## Body fastening clamp (mm)

1.5mm standard type, 2.3mm standard type and 8.0mm standard type connectors, the clamp can be installed.

※The detail dimensions for the mounting portion are specified in drawing

1.5mm 標準・2.3mm 標準・8.0mm 標準のコネクタには、ボディ固定用クランプを必要に応じて取付けることができます。

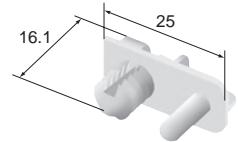
※取付部詳細寸法は、別途図面により規定します。

J-11

Type 2

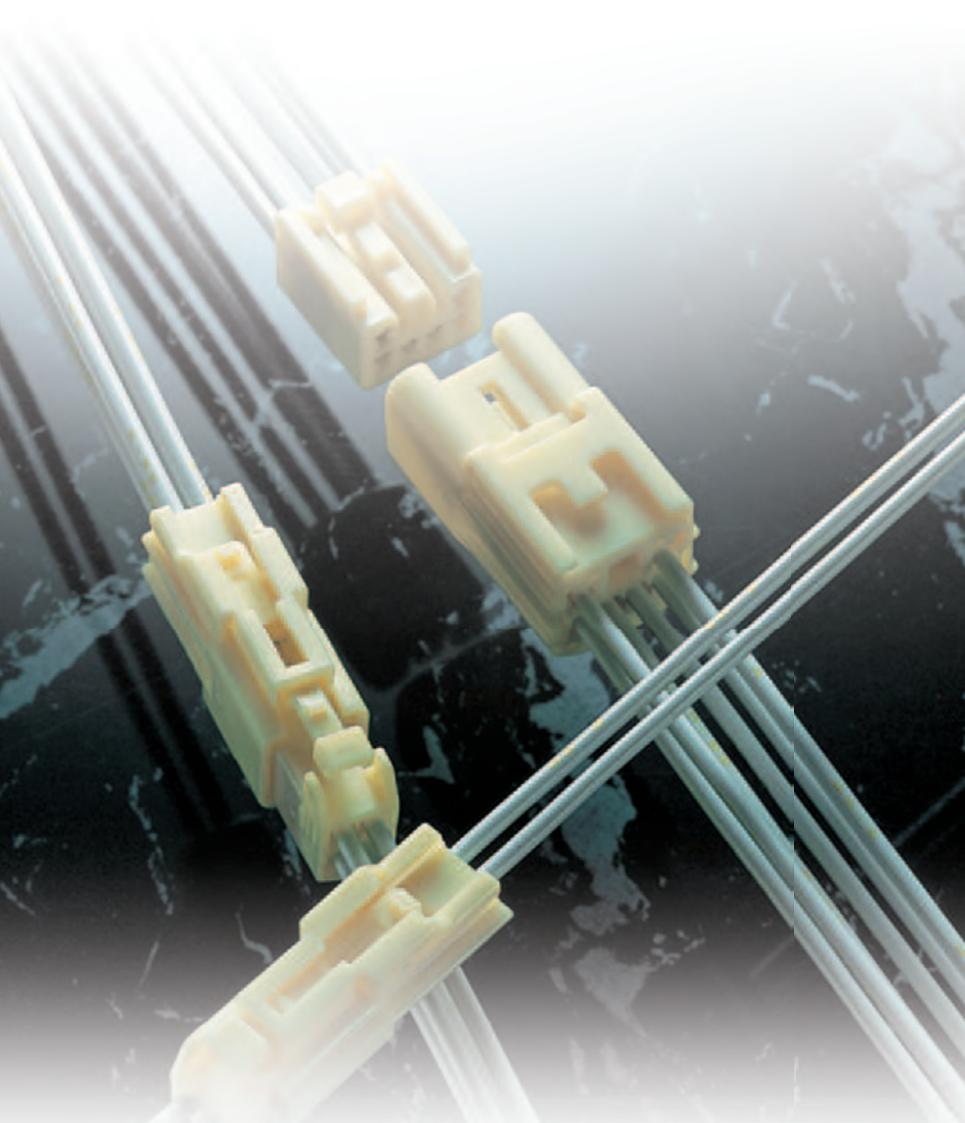
(6810-4982)

Material 材質	PA66
Color 色相	Natural 自然色
Plate thickness range for clamp クランプ適合板厚	$t=2.0$





# DL SERIES



## Features

The DL connector series has a mechanism that detects when terminals are not inserted completely.

This series consists of 0.64mm, 1.0mm and 2.3mm types classified according to the terminal size, supporting use in a variety of control circuits and low power circuits.

- The connector mechanism only allows the retainer to be set when the terminal is completely inserted.
- These connectors can be directly secured to a bracket on the car body.
- RoHS/ELV Compliant

## 特 長

DL シリーズは、挿入不足のターミナルを検知する機構を備えたコネクタシリーズです。

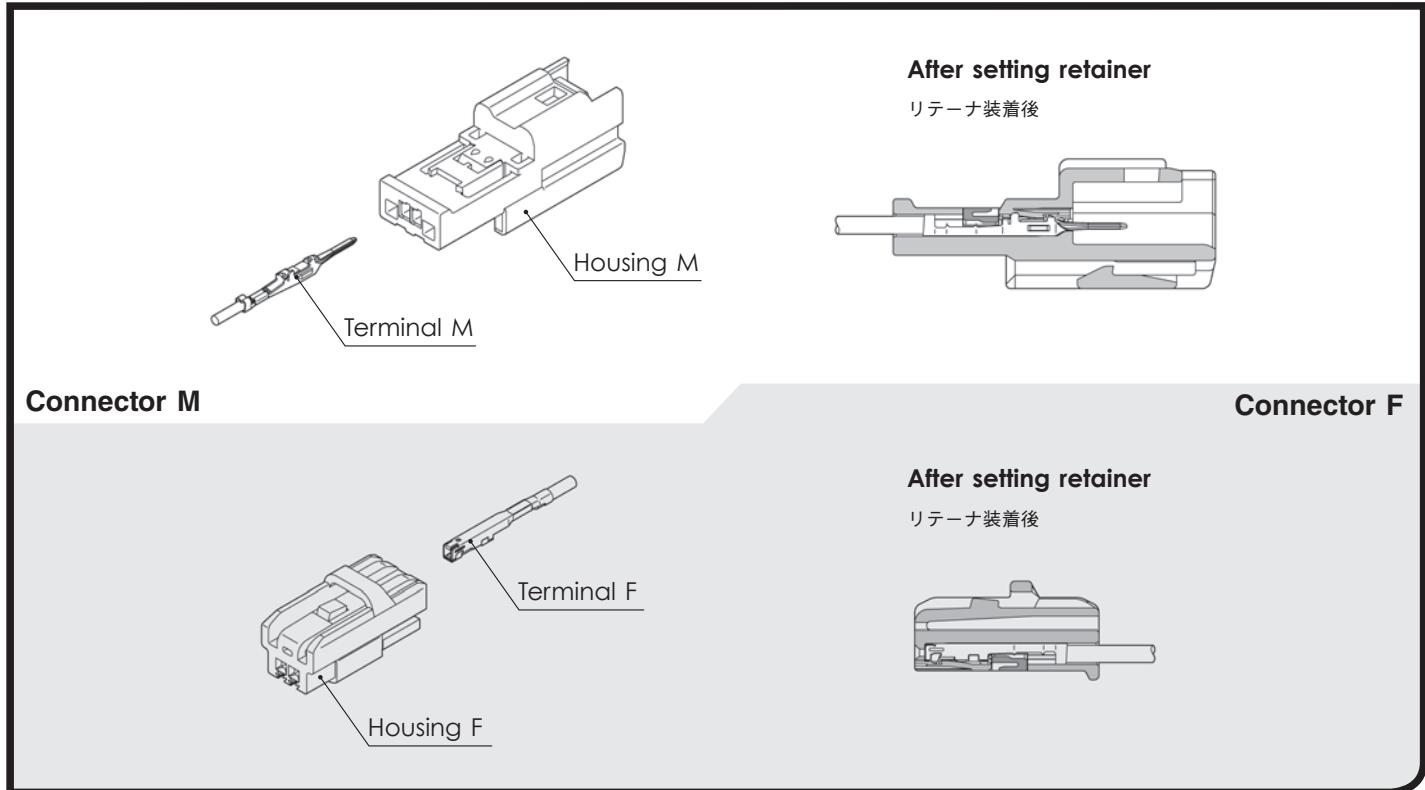
ターミナルサイズにより 0.64mm・1.0mm・2.3mm 型で構成されており、各種の制御回路並びに低パワー回路に対応することができます。

- ターミナルが半挿入の状態では、リテナが装着できない機構になっています。
- コネクタはボディ側のブラケットに直接固定することができます。
- RoHS／ELV 対応

# DL SERIES for STANDARD

## 0.64mm (025)

Structure／構造



0.64mm (025)

### Terminal (UNIT : mm)

Ref: 0.64mm Terminal detail

0.64mm ターミナル参照頁

**S M (8100-4028) C-02 F (8100-4029) C-02**

**M M (8100-4027) C-02 F (8100-4030) C-02**

0.64mm (025)

### Housing (UNIT : mm)

Ref: Terminal part No.

ターミナル参照頁

C-02

Material

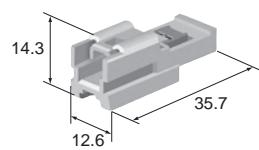
材質

PBT

## 2way

Color  
色相

Natural  
自然色



M (6098-4569)

Color  
色相

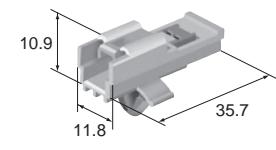
Note  
備考

Plate thickness range for clamp:  
 $t=0.6\sim2.0\text{mm}$   
Hole=7.2mm×10.2mm

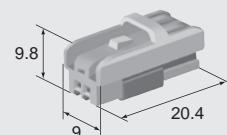
M (6098-4567)

Natural  
自然色

With body fastening clamp.  
回り止めクランプ付



F (6098-4565)



Color  
色相

Natural  
自然色

K-03

DL SERIES

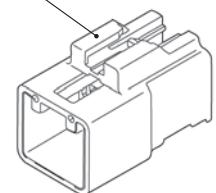
# DL SERIES for STANDARD

## 1.0mm (040)

This connector has a terminal pitch of 2.5 mm.  
端子間ピッチ2.5mmのコネクタです。

### Structure / 構造

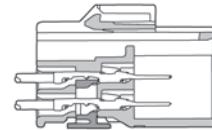
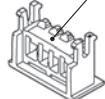
Housing M



Terminal M



Retainer

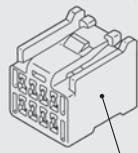


Retainer sliding direction

リテーナを押込むことにより、  
端子の半挿入状態を検知できます。

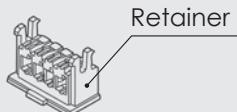
Connector M

Connector F



Housing F

Terminal F



Retainer sliding direction

リテーナを押込むことにより、  
端子の半挿入状態を検知できます。

1.0mm (040)

### Terminal (UNIT : mm)

※ For terminal selection, please contact our sales staff.  
Note) M size terminal can be used connector  
with insertion cavity specified. For details  
please contact our sales staff.

※ Surface treatment of gold-plated is available to  
meet your needs.  
Thick size is for the time being now.

※ ターミナル選定にあたっては、必ず弊社営業担当にお問  
い合わせください。

注) M サイズターミナルの使用出来るコネクタは限定され  
ます。必ず弊社営業担当にお問い合わせください。

※ Au メッキ仕様については、必要に応じ設定は可能です。  
尚、太物サイズについては、現在の所、暫定とさせて頂きます。

**(S)**

Cable size (mm <sup>2</sup> ) 適用電線サイズ	0.3~0.5
Material 材質	Brass 黄銅
Surface treatment 表面処理	Tin-plated Snメッキ

**M (8100-2512)**

**F (8100-1710)**

Cable size (mm <sup>2</sup> ) 適用電線サイズ	0.3~0.5
Material 材質	Heat-resistant copper alloy
Surface treatment 表面処理	Tin-plated Snメッキ

**(S)**

**Au**

**F (8240-0300)**

Cable size (mm <sup>2</sup> ) 適用電線サイズ	0.3~0.5
Material 材質	Heat-resistant copper alloy
Surface treatment 表面処理	Gold-plated Auメッキ

**(M)**

Cable size (mm <sup>2</sup> ) 適用電線サイズ	0.75, 0.85~1.25
Material 材質	Brass 黄銅
Surface treatment 表面処理	Tin-plated Snメッキ

Note)

**M (8100-2513)**

**F (8100-2514)**

Cable size (mm <sup>2</sup> ) 適用電線サイズ	0.75, 0.85~1.25
Material 材質	Heat-resistant copper alloy
Surface treatment 表面処理	Tin-plated Snメッキ

**1.0mm (040)**

**Housing** (UNIT : mm)

Ref: Terminal part No.  
ターミナル参照頁

K-04

Material  
材質

PBT

Note) M size terminal can be used connector with insertion cavity specified. For details please contact our sales staff.

注) M サイズターミナルの使用出来るコネクタは限定されます。

**4way**

Color 色相	Natural 自然色
-------------	----------------

**M (6098-2158)**

**F (6098-2013)**

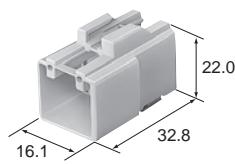
Color 色相	Natural 自然色
-------------	----------------

### 8way

Color  
色 相

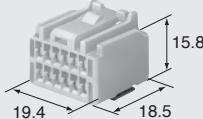
Natural  
自然色

Note)



### 12way

**F (6098-2289)**

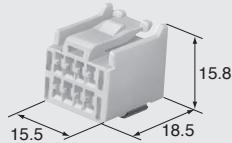


Color  
色 相

Natural  
自然色

**M (6098-2206)**

**F (6098-2208)**



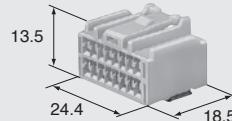
Color  
色 相

Natural  
自然色

Note)

### 16way

**F (6098-1624)**



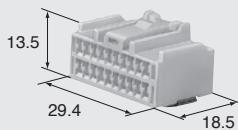
Color  
色 相

Natural  
自然色

### K-06

### 20way

**F (6098-1626)**



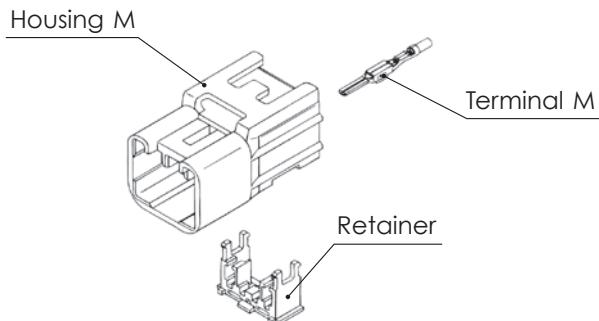
Color  
色 相

Natural  
自然色

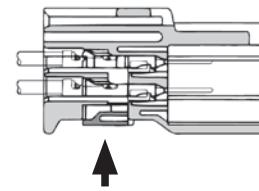
# DL SERIES for STANDARD

## 2.3mm(090)

### Structure / 構造

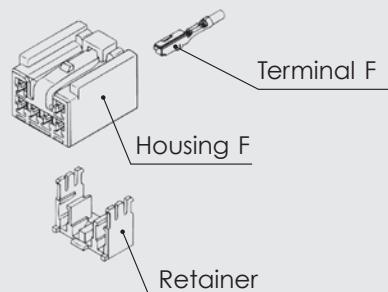


Connector M

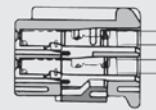


Retainer sliding direction

リテーナを押込むことにより、端子の半挿入状態を検知できます。



Connector F



Retainer sliding direction

リテーナを押込むことにより、端子の半挿入状態を検知できます。

### 2.3mm(090)

#### Terminal (UNIT : mm)

Ref: 2.3mm Terminal detail

2.3mmターミナル参照頁

S M (8230-4492) A-10 F (8240-4882) A-10

M M (8230-4502) A-10 F (8240-4892) A-10

L M (8230-4512) A-10 F (8240-4942) A-10

Regarding "Gold-plated Terminal", please refer "A-10".  
AuメッキターミナルはA-10をご参照

### 2.3mm(090)

#### Housing (UNIT : mm)

Ref: Terminal part No.

ターミナル参照頁

A-10

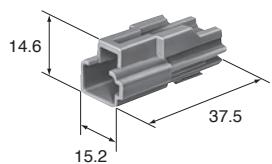
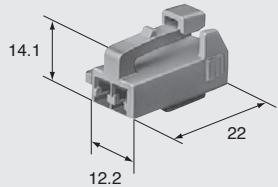
Material  
材質

Low water absorption  
Nylon

## 2way

Color  
色相

Natural  
自然色

**M (6249-1248)**

Color  
色相

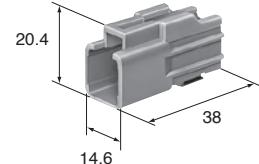
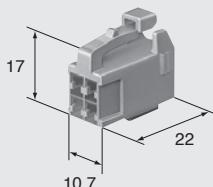
Natural  
自然色

**F (6249-1251)**

## 4way

Color  
色相

Natural  
自然色

**F (6249-1252)****M (6249-1249)**

Color  
色相

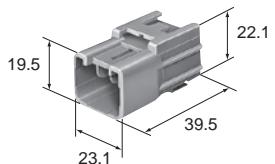
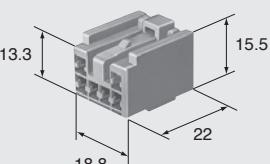
Natural  
自然色

## K-08

## 6way

Color  
色相

Natural  
自然色

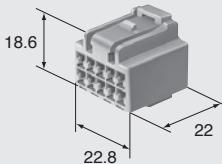
**M (6249-1250)**

Color  
色相

Natural  
自然色

**F (6249-1253)**

## 10way

**F (6248-5311)**

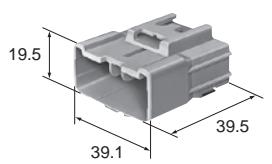
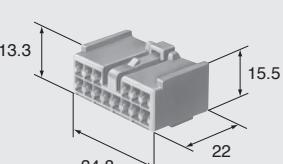
Color  
色相

Natural  
自然色

## 14way

Color  
色相

Natural  
自然色

**M (6249-1265)**

Color  
色相

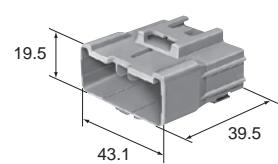
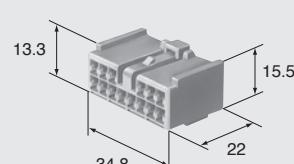
Natural  
自然色

**F (6248-5309)**

## 16way

Color  
色相

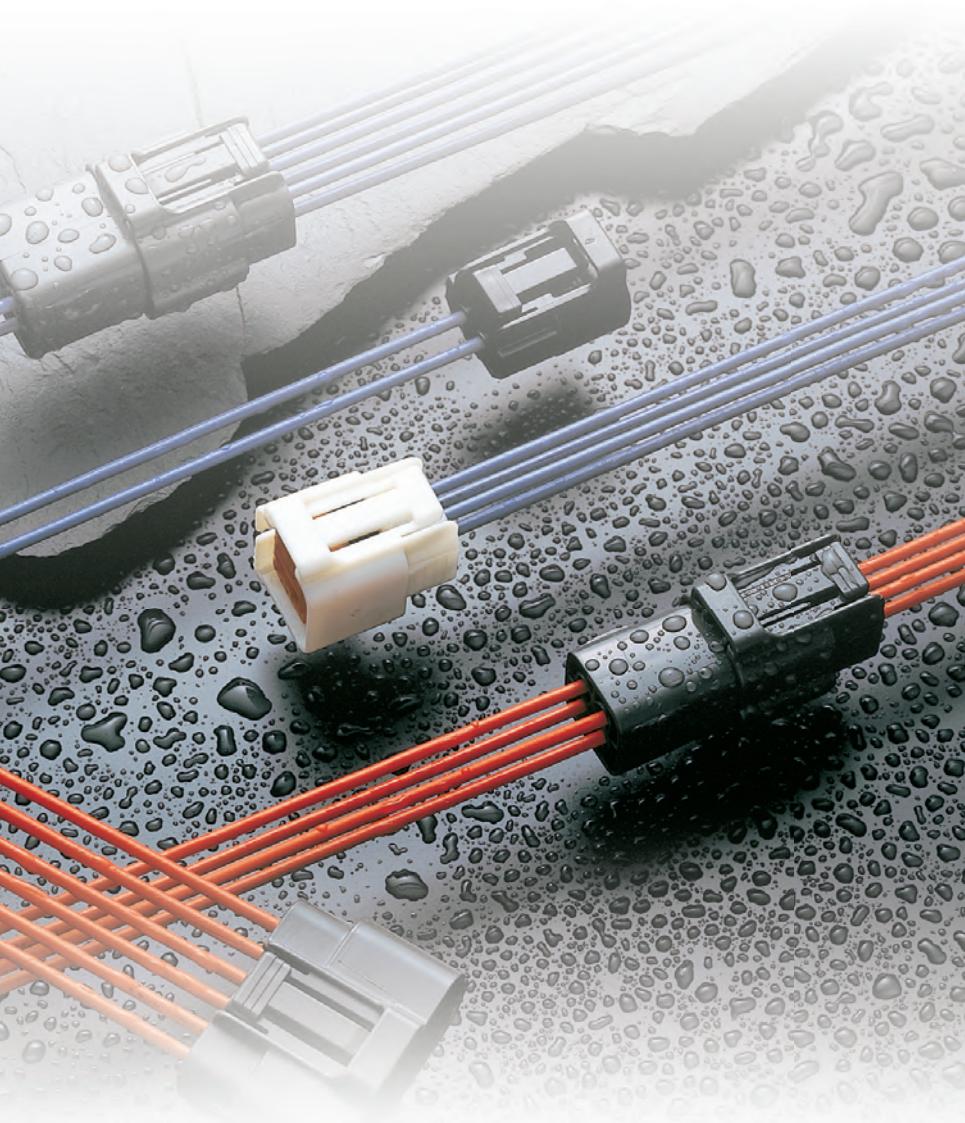
Natural  
自然色

**F (6248-5310)****M (6249-1266)**

Color  
色相

Natural  
自然色

# DL SEALED SERIES



## Features

The DL sealed connector series has a mechanism that detects when terminals are not inserted completely.

The series consists of 2.3mm type covering an extensive array of applications from signal circuits to power circuits.

- The connector mechanism only allows the retainer to be set when the terminal is completely inserted.
- These connectors can be directly secured to a bracket on the car body.
- In addition, an extra clip can be attached to the connector to secure it to the car body.
- RoHS/ELV Compliant

## 特 長

DL 防水シリーズは、挿入不足のターミナルを検知する機構を備えたコネクタシリーズです。

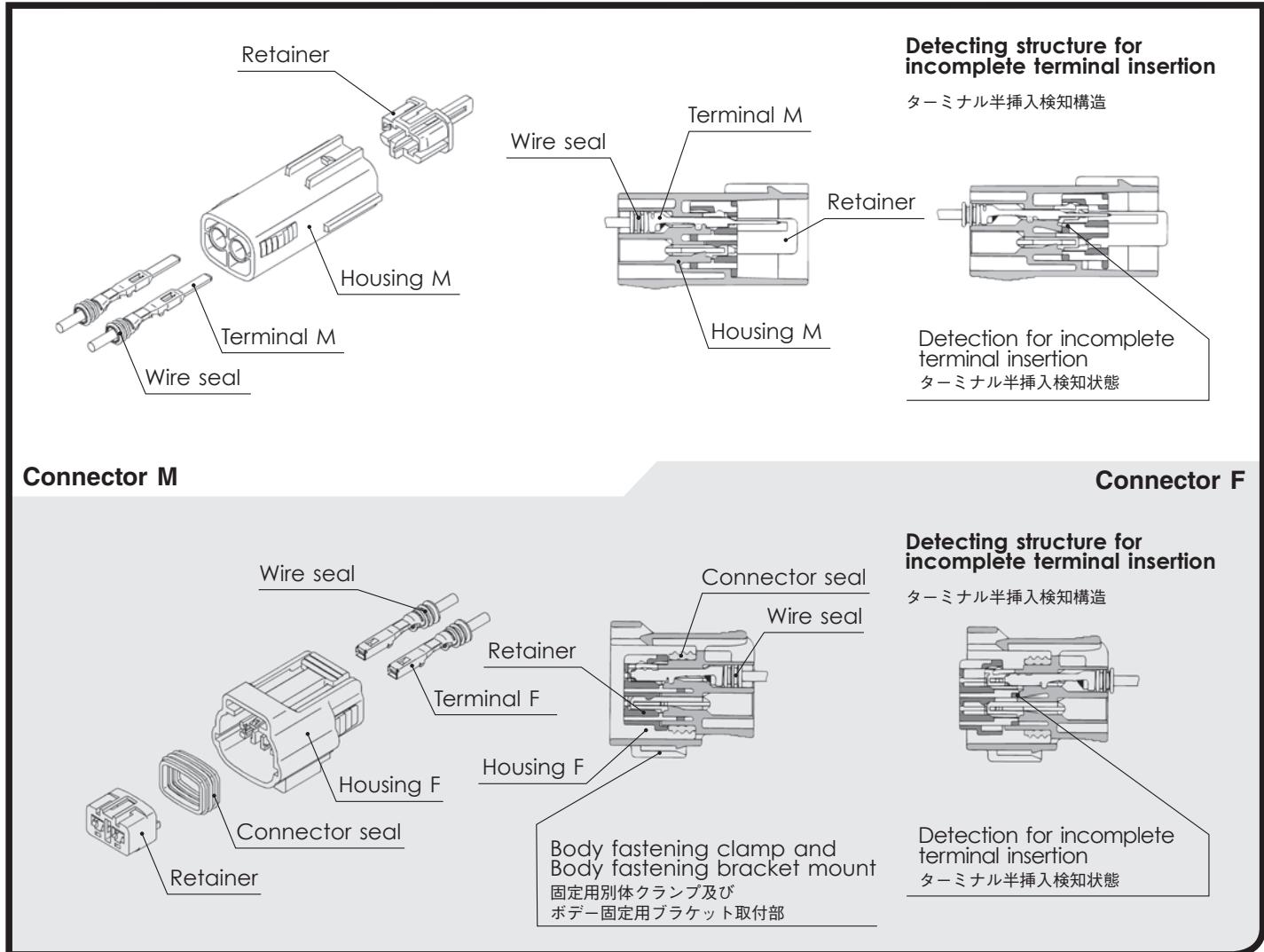
ターミナルサイズが2.3mm型で構成されており、信号回路からパワーリードまで幅広くご利用いただけます。

- ターミナルが半挿入の状態では、リテナが装着できない機構になっています。
- コネクタは、ボディ側のブラケットに直接固定することができます。
- またコネクタにはボディに固定するためのクランプ(クリップ)を装着することができます。
- RoHS／ELV 対応

# DL SEALED SERIES for STANDARD

## 2.3mm(090)

### Structure / 構造



2.3mm (090)

Terminal (UNIT : mm)

※ For terminal selection, please contact our sales staff.

※ ターミナル選定にあたっては、必ず弊社営業担当にお問い合わせください。

<p><b>(S)</b></p> <table border="1"> <tr><td>Cable size (mm<sup>2</sup>)</td><td>0.3~0.5</td></tr> <tr><td>Material</td><td>Brass</td></tr> <tr><td>Surface treatment</td><td>Tin-plated Snメッキ</td></tr> </table> <p><b>M (8230-4472)</b></p> <table border="1"> <tr><td>Cable size (mm<sup>2</sup>)</td><td>0.3~0.5</td></tr> <tr><td>Material</td><td>Heat-resistant copper alloy</td></tr> <tr><td>Surface treatment</td><td>Tin-plated Snメッキ</td></tr> </table> <p><b>F (8100-1427)</b></p>	Cable size (mm <sup>2</sup> )	0.3~0.5	Material	Brass	Surface treatment	Tin-plated Snメッキ	Cable size (mm <sup>2</sup> )	0.3~0.5	Material	Heat-resistant copper alloy	Surface treatment	Tin-plated Snメッキ	<p><b>(S)</b></p> <table border="1"> <tr><td>Cable size (mm<sup>2</sup>)</td><td>0.3~0.5</td></tr> <tr><td>Material</td><td>Brass</td></tr> <tr><td>Surface treatment</td><td>Gold-plated Auメッキ</td></tr> </table> <p><b>M (1500-0159)</b></p> <table border="1"> <tr><td>Cable size (mm<sup>2</sup>)</td><td>0.3~0.5</td></tr> <tr><td>Material</td><td>Heat-resistant copper alloy</td></tr> <tr><td>Surface treatment</td><td>Gold-plated Auメッキ</td></tr> </table> <p><b>F (8100-1458)</b></p>	Cable size (mm <sup>2</sup> )	0.3~0.5	Material	Brass	Surface treatment	Gold-plated Auメッキ	Cable size (mm <sup>2</sup> )	0.3~0.5	Material	Heat-resistant copper alloy	Surface treatment	Gold-plated Auメッキ
Cable size (mm <sup>2</sup> )	0.3~0.5																								
Material	Brass																								
Surface treatment	Tin-plated Snメッキ																								
Cable size (mm <sup>2</sup> )	0.3~0.5																								
Material	Heat-resistant copper alloy																								
Surface treatment	Tin-plated Snメッキ																								
Cable size (mm <sup>2</sup> )	0.3~0.5																								
Material	Brass																								
Surface treatment	Gold-plated Auメッキ																								
Cable size (mm <sup>2</sup> )	0.3~0.5																								
Material	Heat-resistant copper alloy																								
Surface treatment	Gold-plated Auメッキ																								
<p><b>(M)</b></p> <table border="1"> <tr><td>Cable size (mm<sup>2</sup>)</td><td>0.75~0.85</td></tr> <tr><td>Material</td><td>Brass</td></tr> <tr><td>Surface treatment</td><td>Tin-plated Snメッキ</td></tr> </table> <p><b>M (8230-4562)</b></p> <table border="1"> <tr><td>Cable size (mm<sup>2</sup>)</td><td>0.75~0.85</td></tr> <tr><td>Material</td><td>Heat-resistant copper alloy</td></tr> <tr><td>Surface treatment</td><td>Tin-plated Snメッキ</td></tr> </table> <p><b>F (8100-1429)</b></p>	Cable size (mm <sup>2</sup> )	0.75~0.85	Material	Brass	Surface treatment	Tin-plated Snメッキ	Cable size (mm <sup>2</sup> )	0.75~0.85	Material	Heat-resistant copper alloy	Surface treatment	Tin-plated Snメッキ	<p><b>(M)</b></p> <table border="1"> <tr><td>Cable size (mm<sup>2</sup>)</td><td>0.75~0.85</td></tr> <tr><td>Material</td><td>Brass</td></tr> <tr><td>Surface treatment</td><td>Gold-plated Auメッキ</td></tr> </table> <p><b>M (1500-0169)</b></p> <table border="1"> <tr><td>Cable size (mm<sup>2</sup>)</td><td>0.75~0.85</td></tr> <tr><td>Material</td><td>Heat-resistant copper alloy</td></tr> <tr><td>Surface treatment</td><td>Gold-plated Auメッキ</td></tr> </table> <p><b>F (8100-1460)</b></p>	Cable size (mm <sup>2</sup> )	0.75~0.85	Material	Brass	Surface treatment	Gold-plated Auメッキ	Cable size (mm <sup>2</sup> )	0.75~0.85	Material	Heat-resistant copper alloy	Surface treatment	Gold-plated Auメッキ
Cable size (mm <sup>2</sup> )	0.75~0.85																								
Material	Brass																								
Surface treatment	Tin-plated Snメッキ																								
Cable size (mm <sup>2</sup> )	0.75~0.85																								
Material	Heat-resistant copper alloy																								
Surface treatment	Tin-plated Snメッキ																								
Cable size (mm <sup>2</sup> )	0.75~0.85																								
Material	Brass																								
Surface treatment	Gold-plated Auメッキ																								
Cable size (mm <sup>2</sup> )	0.75~0.85																								
Material	Heat-resistant copper alloy																								
Surface treatment	Gold-plated Auメッキ																								
<p><b>(L)</b></p> <table border="1"> <tr><td>Cable size (mm<sup>2</sup>)</td><td>1.25~2.0</td></tr> <tr><td>Material</td><td>Brass</td></tr> <tr><td>Surface treatment</td><td>Tin-plated Snメッキ</td></tr> </table> <p><b>M (8230-4552)</b></p> <table border="1"> <tr><td>Cable size (mm<sup>2</sup>)</td><td>1.25~2.0</td></tr> <tr><td>Material</td><td>Heat-resistant copper alloy</td></tr> <tr><td>Surface treatment</td><td>Tin-plated Snメッキ</td></tr> </table> <p><b>F (8100-1428)</b></p>	Cable size (mm <sup>2</sup> )	1.25~2.0	Material	Brass	Surface treatment	Tin-plated Snメッキ	Cable size (mm <sup>2</sup> )	1.25~2.0	Material	Heat-resistant copper alloy	Surface treatment	Tin-plated Snメッキ	<p><b>(L)</b></p> <table border="1"> <tr><td>Cable size (mm<sup>2</sup>)</td><td>1.25~2.0</td></tr> <tr><td>Material</td><td>Heat-resistant copper alloy</td></tr> <tr><td>Surface treatment</td><td>Gold-plated Auメッキ</td></tr> </table> <p><b>F (8100-1459)</b></p>	Cable size (mm <sup>2</sup> )	1.25~2.0	Material	Heat-resistant copper alloy	Surface treatment	Gold-plated Auメッキ						
Cable size (mm <sup>2</sup> )	1.25~2.0																								
Material	Brass																								
Surface treatment	Tin-plated Snメッキ																								
Cable size (mm <sup>2</sup> )	1.25~2.0																								
Material	Heat-resistant copper alloy																								
Surface treatment	Tin-plated Snメッキ																								
Cable size (mm <sup>2</sup> )	1.25~2.0																								
Material	Heat-resistant copper alloy																								
Surface treatment	Gold-plated Auメッキ																								

## 2.3mm (090)

(SS)

(7165-0210)



### Wire seals (UNIT : mm)

- The wire seals are common to M and F.
- ワイヤーシールはM、F共用です。

(S)

(7165-0118)

L-04

Cable overall diameter(mm) Over than 1.5 mm below 2.0 mm  
電線仕上り外径 1.5 mmを越え2.0 mm以下

Material  
材質 NBR  
Color  
色相 Blue 青



(M)

(7165-0119)

Cable overall diameter(mm) Over than 2.0 mm below 2.9 mm  
電線仕上り外径 2.0 mmを越え2.9 mm以下

Material  
材質 NBR  
Color  
色相 Brown 茶



## 2.3mm (090)

### Dummy plugs (UNIT : mm)

Ref: 2.3mm Dummy plug detail

2.3mmダミー栓掲載頁

(7161-9787) B-15

(7165-0193) J-07

- Dummy plugs are common to M and F.
- Dummy plugs are used to blind unused terminal holes.
- ダミー栓はM、F共用です。
- 不必要なターミナル穴を塞ぐために、ダミー栓を使用します。

## 2.3mm (090)

### Housing (UNIT : mm)

Ref: Terminal part No. L-02  
ターミナル参照頁

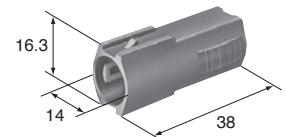
Ref: wire seal No. L-04  
ワイヤーシール参照頁

Ref: Dummy plug No. B-11  
ダミー栓参照頁 J-07

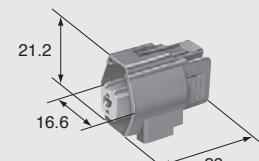
Material PBT or Low water  
材質 absorption Nylon

### 1way

Color Dark Gray  
色相 濃灰



### M (6195-0240)

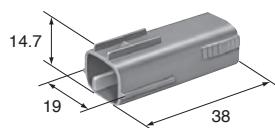


### F (6195-0066)

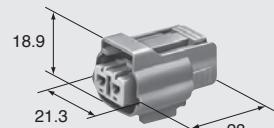
Color Dark Gray  
色相 濃灰  
Note L-07  
備考 Bracket Clamp : TYPE2

### 2way

Color Dark Gray  
色相 濃灰



### M (6195-0006)



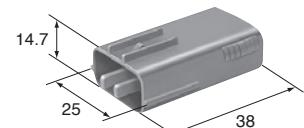
Color Dark Gray  
色相 濃灰  
Note L-07  
備考 Bracket Clamp : TYPE2

### F (6195-0003)

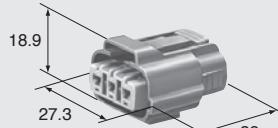
Color Dark Gray  
色相 濃灰  
Note L-07  
備考 Bracket Clamp : TYPE2

### 3way

Color Dark Gray  
色相 濃灰



### M (6195-0012)

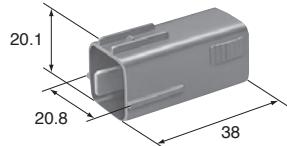


### F (6195-0009)

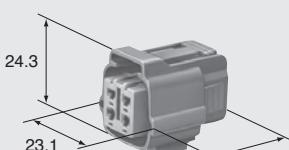
Color Dark Gray  
色相 濃灰  
Note L-07  
備考 Bracket Clamp : TYPE2

### 4way

Color Dark Gray  
色相 濃灰



### M (6195-0018)

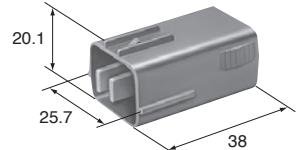


Color Dark Gray  
色相 濃灰  
Note L-07  
備考 Bracket Clamp : TYPE2

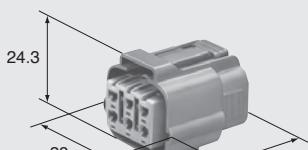
### F (6195-0015)

### 6way

Color Dark Gray  
色相 濃灰



### M (6195-0024)



### F (6195-0021)

Color Dark Gray  
色相 濃灰  
Note L-07  
備考 Bracket Clamp : TYPE2

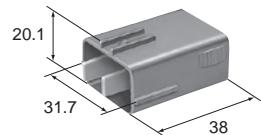
L-05

DL SEALED SERIES

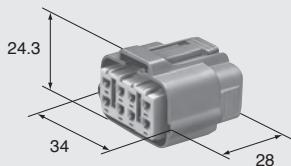
## 8way

Color  
色相

Dark Gray  
濃灰



M (6195-0054)



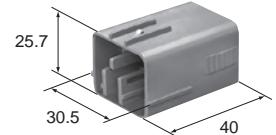
Color  
色相  
Note  
備考

Dark Gray  
濃灰  
L-07  
Bracket Clamp : TYPE2

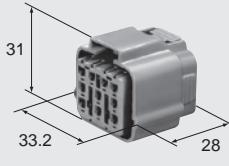
## 10way

Color  
色相

Light Gray  
薄灰



M (6195-0167)



Color  
色相  
Note  
備考

F (6195-0164)

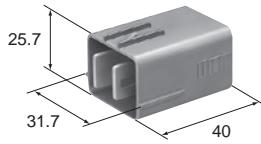
Light Gray  
薄灰  
L-07  
Bracket Clamp : TYPE2

## 12way

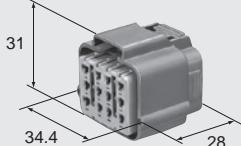
L-06

Color  
色相

Dark Gray  
濃灰



M (6195-0152)



Color  
色相  
Note  
備考

Dark Gray  
濃灰  
L-07  
Bracket Clamp : TYPE2

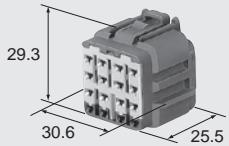
## 16way

Color  
色相  
Note  
備考

Dark Gray  
濃灰  
L-07  
Bracket Clamp : TYPE1



M (6188-0495)



Color  
色相

F (6189-0715)

Dark Gray  
濃灰

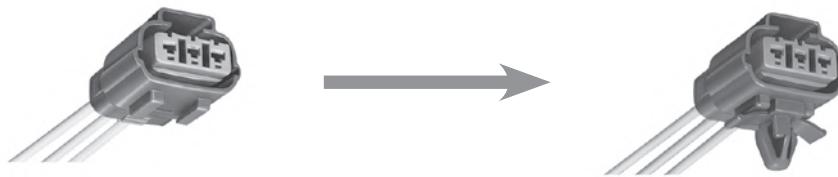
# DL SEALED SERIES COMMON USE PARTS

## Body fastening clamp (mm)

2.3mm standard type connectors, the clamp can be installed.

※ The detail dimensions for the mounting portion are specified in drawing  
2.3mm 標準のコネクタには、ボディ固定用クランプを必要に応じて取付ける  
ことができます。

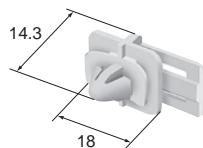
※取付部詳細寸法は、別途図面により規定します。



Type 1

(6810-2653)

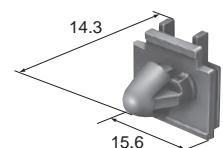
Material 材質	PA6T
Color 色相	Natural 自然色
hole size 穴径	$\phi 7.0$
Plate thickness range for clamp クランプ適合板厚	$t=0.6 \sim 1.6$



Type 2

(6810-1584)

Material 材質	PBT
Color 色相	Brown 茶
hole size 穴径	$7.2 \times 10.2$
Plate thickness range for clamp クランプ適合板厚	$t=0.7 \sim 2.0$

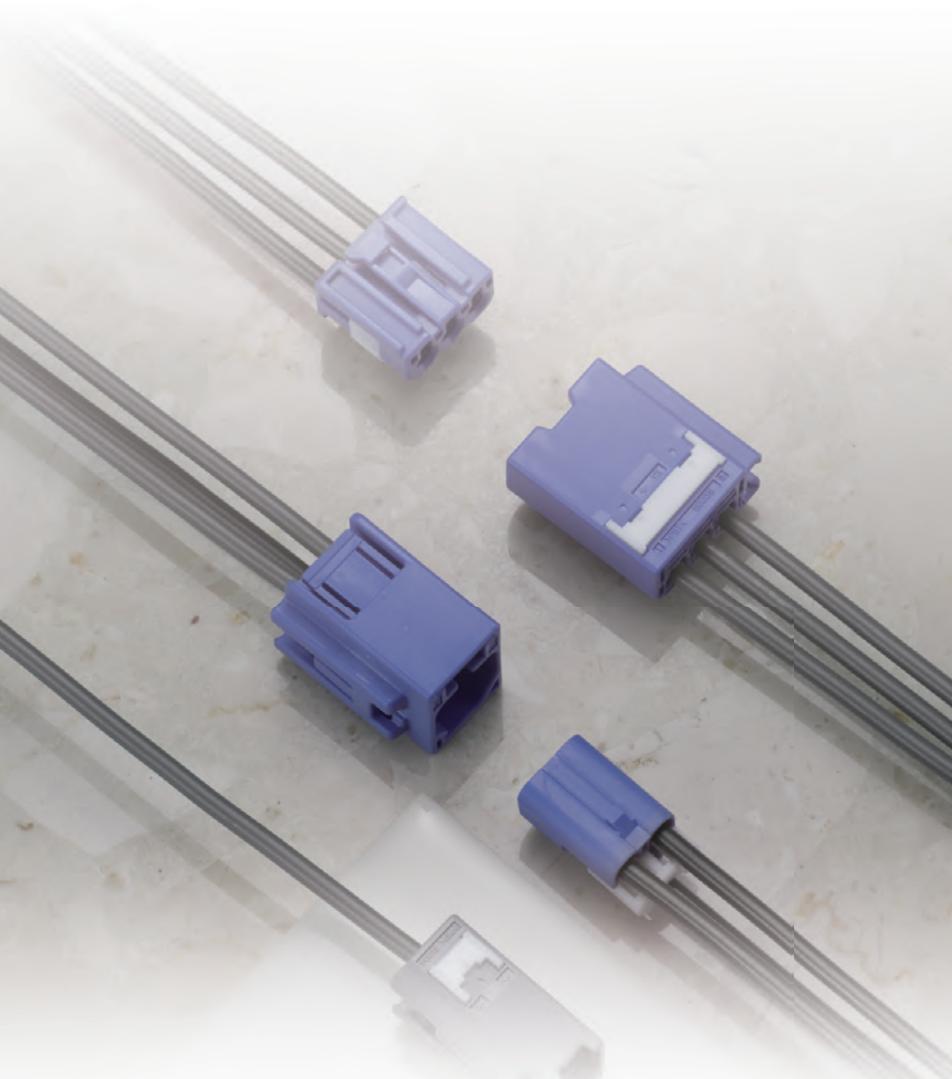


L-07

DL SEALED SERIES



# HFC III SERIES



## Features

HFCIII (High Frequency Connector) series are connectors that connect on-board multimedia devices, such as GPS, TV, VICS and etc., and coaxial wires. These are also suitable for mobile telephone and sensor circuit.

- It reduces reflection/transmission loss and restraints noise radiation. It achieved smaller size with higher performance.
- Hybrid types for high frequency coaxial wire and automobile wire (AV) are established. (It supports diversity receiving system).
- Retainer for secondary lock is preloaded and the strucrure allows the high frequency coaxial wire and AV wire to be set by one operation. Therefore improvement of assembling operation can be planned.
- RoHS/ELV Compliant

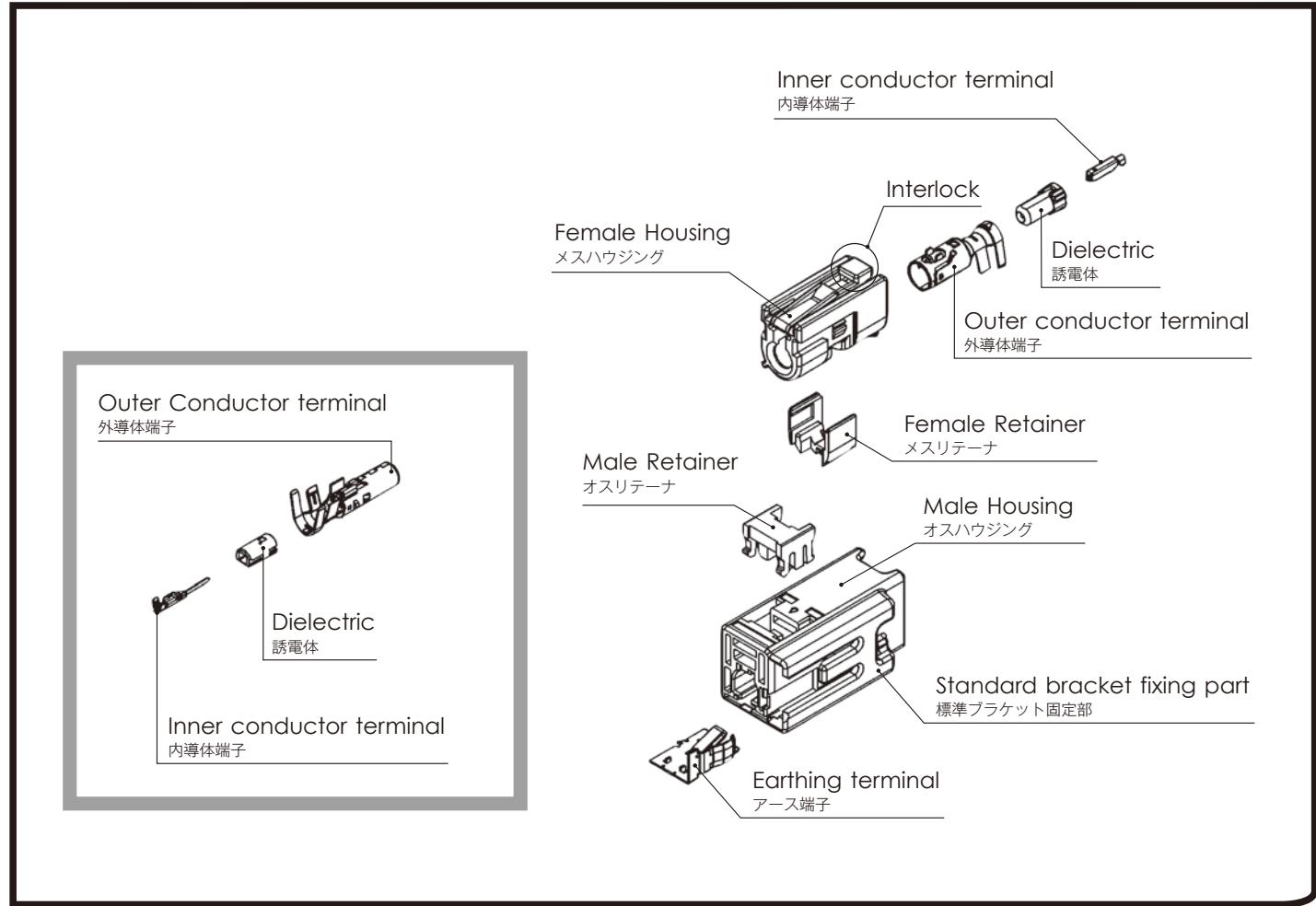
## 特 長

HFC IIIシリーズ（高周波コネクタ）はGPS・TV・VICSなどの車載マルチメディア機器と同じ同軸線の接続用コネクタで車載電話・センサ回路にも適したコネクタです。

- 伝送損失、反射、ノイズ放射を抑制し、小型高性能化を実現しています。
- 高周波同軸線と自動車用電線（AV）のハイブリッドタイプを設定しています。（ダイバシティ受信方式に対応しています。）
- 二重係止用リテーナは予め組み付けられており、高周波同軸線とAV線が同一作業でセットできる構造により、組み付け作業の向上が図れます。
- RoHS／ELV 対応

# HFC III SERIES for STANDARD

## Structure / 構造



## Basic specification / 基本仕様

Type		1 way coaxial wire 2 way coaxial wire + 1way AV wire 2 way coaxial wire + 2way AV wire 3 way coaxial wire 4 way coaxial wire + 2way AV wire
Contact resistance 接触抵抗	Coaxial wire 同軸線	Max. 20mΩ (Initial / 初期)
	AV wire AV線	Max. 8mΩ (Initial / 初期)
Insulation resistance 絶縁抵抗		Min. 100MΩ
Working temperature 使用温度		-40°C ~ +105°C
VSWR	75Ω系	~180MHz Wire to Wire Max. 1.2
		PCB to Wire
	~770MHz	Wire to Wire Max. 1.4
		PCB to Wire
	50Ω系	~3GHz Wire to Wire Max. 1.4
		PCB to Wire Max. 1.3

Material 材質	M Terminal	Inner conductor 内導体	Brass (Sn plating) 黃銅(Snメッキ)
		Outer conductor 外導体	Heat resistant cooper-alloy (Au plating) 耐熱銅合金(Auメッキ)
	F Terminal	Inner conductor 内導体	Heat resistant cooper-alloy (Au plating) 耐熱銅合金(Auメッキ)
		Outer conductor 外導体	Brass (Sn plating) 黃銅(Snメッキ)

(Note) AV wire = MAX. AVSS 0.5mm<sup>2</sup> (Terminal is TS 0.64 type: Ref. A-02).  
注) AV線=最大AVSS 0.5mm<sup>2</sup>(ターミナルはTS 0.64: A-02参照)

Inner conductor terminal 内導体端子 (mm)

(M)

S(8230-5015) M(8230-5016) L(8230-5017)



(F)

S(8240-0276) M(8240-0277) L(8240-0278)

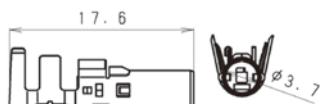


Outer conductor terminal 外導体端子 (mm)

(M)

S(8230-5764) M(8230-5482) L(8230-5483)

F(8230-5484)

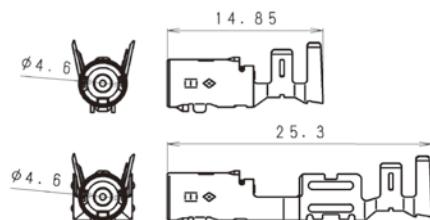


(F)

中継用:S(8240-0713) M(8240-0383) L(8240-0384)

F(8240-0619) FL(8240-0415)

ラジオ用:S(8240-0615) M(8240-0843)



Applicable coaxial wire / 適用同軸線 ※1

			0.8D-2V	1.5C-2V	1.5C-2W	1.5C-2T	1.2D-2V	1.5D-2V	1.5D-2W	2.4D-2V	2.5D foamed ※2	2.5D-2V	3C-2V	Others
Female	Inner terminal	8240-0276	●	●	●	●	●							
		8240-0277						●	●				●	
		8240-0278								●		●		
		8240-0276												Capacitor lead
	Outer terminal assembly	8240-0382	●	●			●	●						
		8240-0383			●	●		●	●		●			
		8240-0384											●	
		8240-0619								●				
		8240-0415												Low capacitance type ※3
		8240-0709		●										
		8240-0388			●								●	
		8240-0389												
Male	Inner terminal	8230-5015	●	●	●	●								
		8230-5016					●	●	●			●		
		8230-5017								●		●		
	Outer terminal assembly	8230-5481	●	●			●	●						
		8230-5482			●	●		●	●		●			
		8230-5483											●	
		8230-5484								●				

※1 For some coaxial wire and wire makers, it might be inapplicable. Please contact our sales representative for more details.  
同軸線・電線メーカーによっては適用できないことがありますので弊社営業担当にお問い合わせ下さい。

※2 When crimping the forming coaxial wire, need the sleeve.  
発泡同軸線を圧着する場合は、スリーブが必要となります。

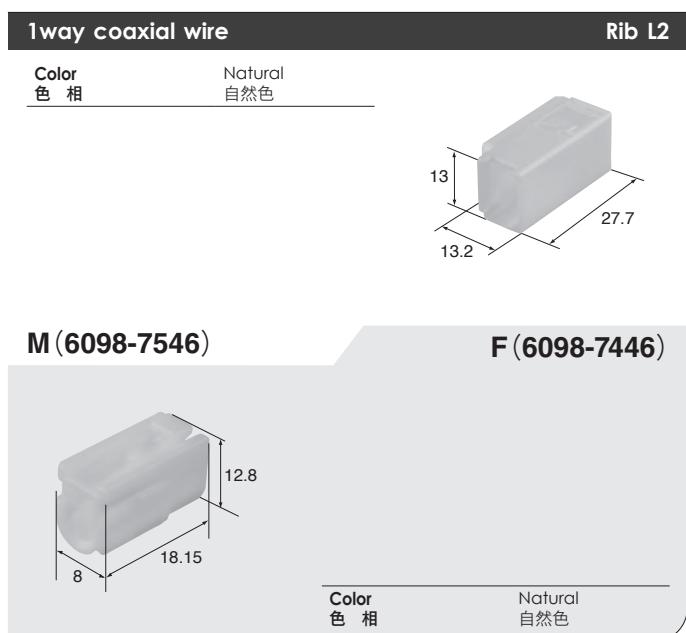
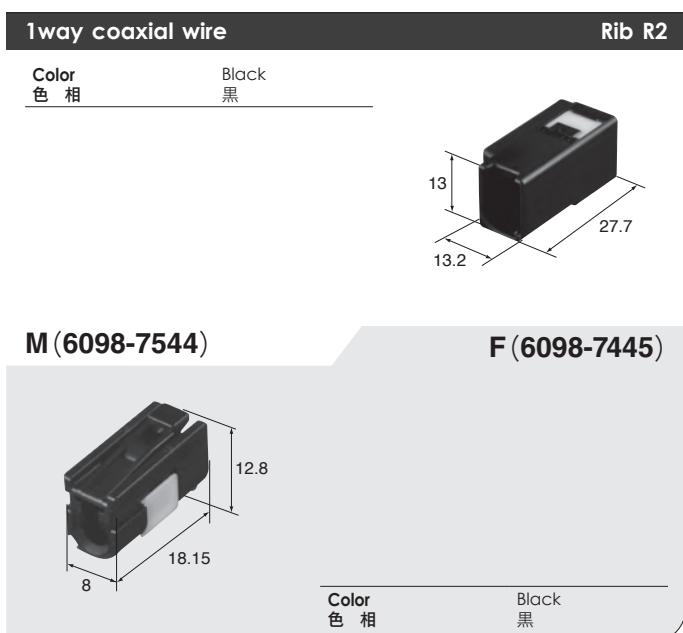
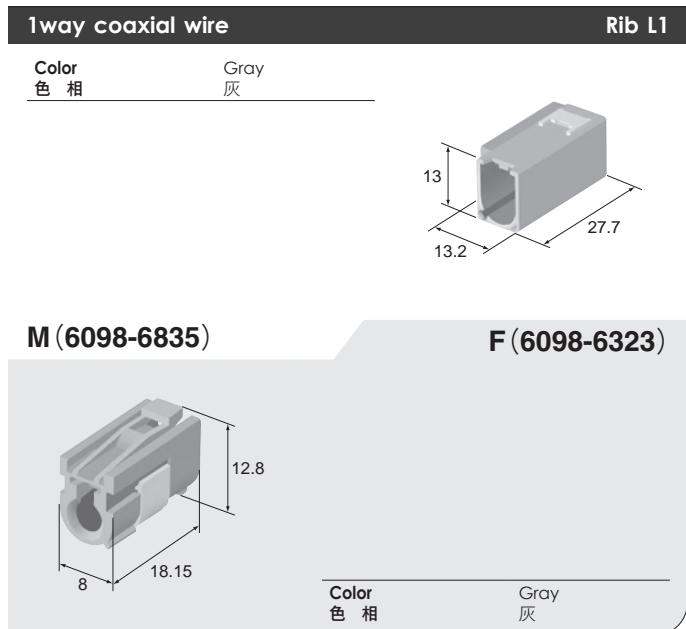
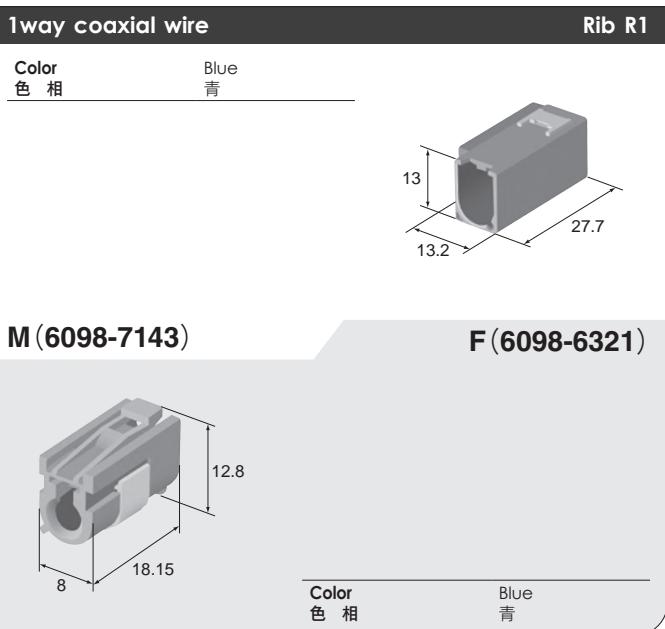
※3 Terminal is the only terminal of main side(6098-6037)female connector, according to the instruction manual of the C-430 HFC Housing for radio.  
端子はC-430ラジオ用HFCハウジング取扱説明書の記載のメスコネクタ(6098-6037)のメイン側専用端子となります。



## Housing (UNIT : mm)

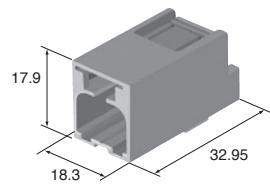
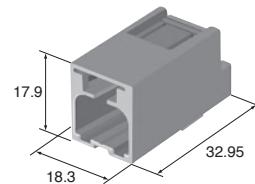
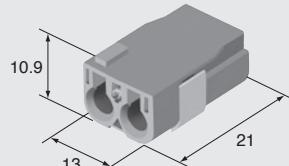
Ref: Terminal part No.  
ターミナル参照頁

<b>coaxial wire</b> 同軸線	M-03
<b>AV wire</b> AV線	A-02

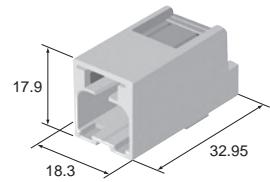
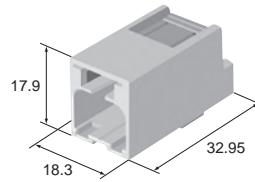
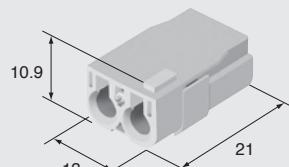


**2 way coaxial wire + 1 way AV wire**

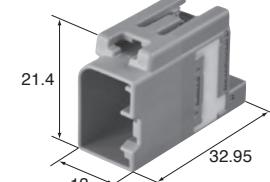
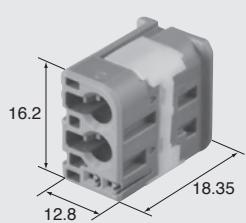
Rib R

Color  
色相Gray  
灰Color  
色相Gray  
灰**M (6098-6331)****M (6098-6373)****F (6098-6336)**Color  
色相Gray  
灰**2 way coaxial wire + 1 way AV wire**

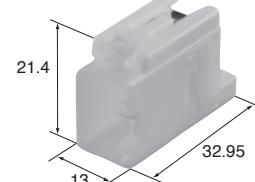
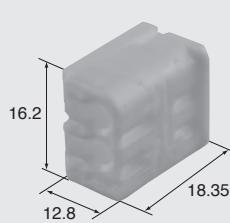
Rib L

Color  
色相Natural  
自然色Color  
色相Natural  
自然色**M (6098-6328)****M (6098-6370)****F (6098-6333)**Color  
色相Natural  
自然色**2 way coaxial wire + 2 way AV wire**

Rib R

Color  
色相Gray  
灰**M (6098-7151)****F (6098-7153)**Color  
色相Gray  
灰**2 way coaxial wire + 2 way AV wire**

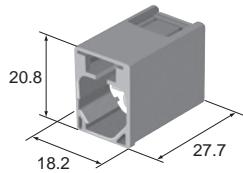
Rib L

Color  
色相Natural  
自然色**M (6098-7145)****F (6098-7148)**Color  
色相Natural  
自然色

### 3 way coaxial wire

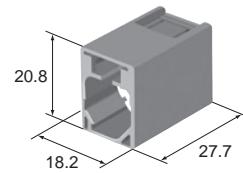
Color  
色相

Blue  
青



Color  
色相

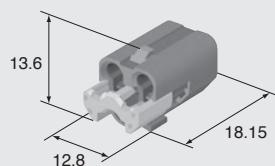
Blue  
青



M (6098-6340)

M (6098-6369)

F (6098-6343)



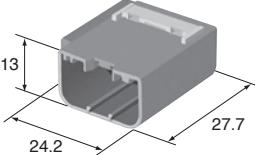
Color  
色相

Blue  
青

### 3 way coaxial wire

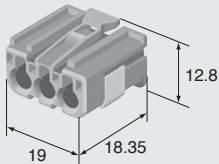
Color  
色相

Blue  
青



M (6098-6838)

F (6098-6841)



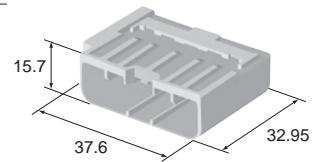
Color  
色相

Blue  
青

### 4 way coaxial wire + 2 way AV wire

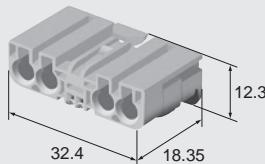
Color  
色相

Natural  
自然色



M (6098-6844)

F (6098-6702)



Color  
色相

Natural  
自然色

# HFC III SERIES

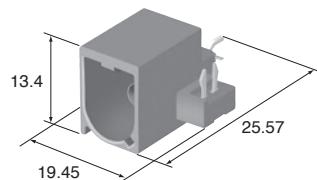
## for PCB

### Housing (UNIT : mm)

#### 1 way coaxial wire

M (6098-6157)

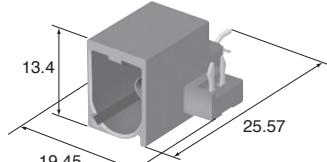
Connector F part No. 6098-6321 (M-04)  
Fコネクタ品番  
Color 色相 Blue 青



#### 1 way coaxial wire

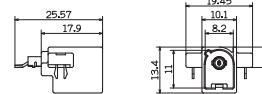
M (6098-6159)

Connector F part No. 6098-6323 (M-04)  
Fコネクタ品番  
Color 色相 Gray 灰

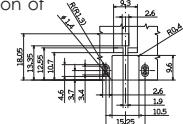


#### Through Hall Type (Rib R)

● Detailed dimension  
寸法詳細



● Recommended demension of  
Circuit board  
基板推奨詳細



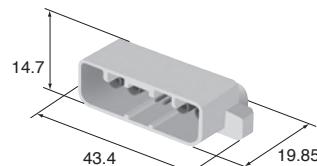
M-07

HFC III SERIES

#### 4 way coaxial wire + 2 way AV wire

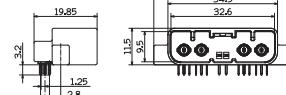
M (6098-6700)

Connector F part No. 6098-6702 (M-06)  
Fコネクタ品番  
Color 色相 Natural 自然色

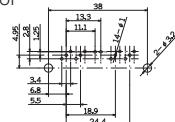


#### Through Hall Type

● Detailed dimension  
寸法詳細



● Recommended demension of  
Circuit board  
基板推奨詳細

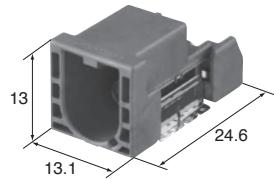


## 1 way coaxial wire

**M (6098-7132)**

Connector F part No. 6098-6321 (M-04)  
Fコネクタ品番

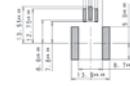
Color  
色相  
Blue  
青



●Detailed dimension  
寸法詳細



●Recommended demension of  
Circuit board  
基板推奨詳細

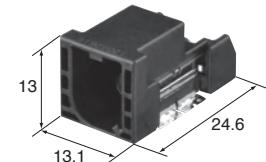


## 1 way coaxial wire

**M (6098-7449)**

Connector F part No. 6098-7445 (M-04)  
Fコネクタ品番

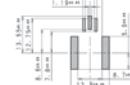
Color  
色相  
Black  
黒



●Detailed dimension  
寸法詳細



●Recommended demension of  
Circuit board  
基板推奨詳細



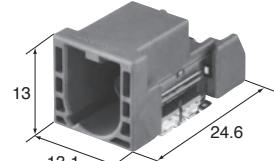
**M-08**

## 1 way coaxial wire

**M (6098-7134)**

Connector F part No. 6098-6323 (M-04)  
Fコネクタ品番

Color  
色相  
Gray  
灰



●Detailed dimension  
寸法詳細



●Recommended demension of  
Circuit board  
基板推奨詳細

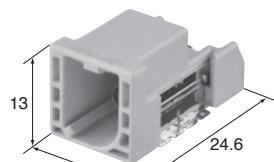


## 1 way coaxial wire

**M (6098-7450)**

Connector F part No. 6098-7446 (M-04)  
Fコネクタ品番

Color  
色相  
Natural  
自然色



●Detailed dimension  
寸法詳細



●Recommended demension of  
Circuit board  
基板推奨詳細



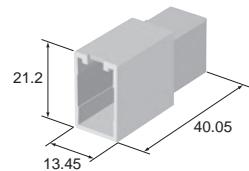
# HFC III SERIES

## for RADIO

### 2 way coaxial wire + 1 way AV wire

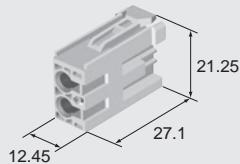
Color  
色 相

Natural  
自然色



**M (6098-6861)**

**F (6098-6037)**



Color  
色 相

Natural  
自然色

### 2 way coaxial wire + 1 way AV wire

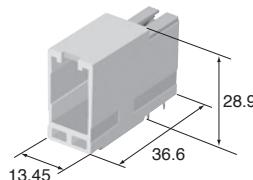
**M (6098-5761)**

Connector F part No.  
Fコネクタ品番

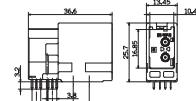
6098-6037 (M-09)

Color  
色 相

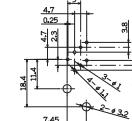
Natural  
自然色



● Detailed dimension  
寸法詳細



● Recommended demension of  
Circuit board  
基板推奨寸法



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## **WARNING**

**Which may result in overheating or fire.**

**発熱・発火の恐れがあります！**

**Do not exceed prescribed current to the connectors.**

**Do not use a broken or cracked housing.**

**Do not use a deformed or rusty terminal.**

●規定の電流値を超えて使用しないでください。

●割れたりヒビが入ったハウジングは使用しないでください。

●変形したり、錆びたターミナルは使用しないでください。

## **CAUTION**

### **Precautions for Selection and Use of Connectors**

#### **コネクタ選定・ご使用に際しての注意事項**

- To select a suitable connector, please consult with our sales staff about operating environment, mounting conditions, and other information (e.g. unsealed type for indoor compartment use, sealed type for engine compartment use).
- The performance of a connector may significantly vary depending on changes in variable elements in the operating environment, such as the number of ways, wire size, ambient temperature, etc.  
For detailed electrical characteristics of each product, see the "Specifications" of the relevant series.
- We have "Specifications" for connector performance and "Instruction Manuals" for connector usage, handling, and precautions, which are available for each connector series. Please be sure to read these in advance to select the appropriate connector and to use it correctly.
- Some connector series require special attention during circuit checks, etc.
- Although some connector specifications include drawings showing mating support, these drawings are provided only for reference. The manufacture of mating parts is not possible without consideration to dimensional tolerances, etc.
- This catalogue include the parts that was designed and developed jointly with a customer and require prior approval before sales. Please contact our sales staff for details.

- コネクタ選定にあたっては、使用環境、組み付け条件等を弊社営業担当にご相談頂き、用途に適合した製品（例：室内は防水用、エンジルーム内は防水用、等）をお選びください。
- コネクタの性能は、極数、使用電線サイズ、周囲温度など、使用環境の可変値によって数値が大きく変化します。  
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- 記載商品にはお客様との共同開発品が一部含まれております。当該お客様向け以外の販売につきましては、事前承認が必要となりますので、弊社営業担当にお問い合わせ下さるようお願い申し上げます。

\*Product specifications may be subject to change without notice.  
Before using the product, please obtain a "customer drawing"  
"Specifications" "Instruction Manuals" from our sales staff.  
Please contact our sales staff for details.

※製品の仕様は、予告なく変更することがあります。  
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上記についての詳細は弊社営業担当にお問い合わせください。

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