

Constructional Data Form for Connector

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License holder: Tyco Electronics AMP K.K.
(Full address) 3-5-8 Hisamoto, Takatsu-ku, Kawasaki-shi, Kanagawa 213-8535, Japan
Factory: Tyco Electronics Shenzhen Co.,Ltd.
(Full address) Tyco Electronics Technology Park, Shiyan street, Baoan District, Shenzhen Guangdong, P.R.China
Type or Model Number: Dynamic D-4000 series_ D4200 Models
Kind of device: Connectors

Specifications				
Type designation	Connector Dynamic D-4000 series_ D4200 Models			
Contact material	Copper Alloy, Tin or Gold plating			
Number of poles	2/3/4/6/8			
Rated voltage	600 V a.c./d.c. (overvoltage category II) 300V a.c./d.c. (overvoltage category III)			
Rated current	Unit: A			
	Maximum Number of Circuit	Wire gauge		
		AWG# 12	AWG# 14	AWG# 16
	2	24	21	16
	3	23	20	15
	4	22	19	14
	8	20	17	12
Mechanical endurance (cycles)	50 cycles			
Classification	☐ CBC ☒ Non CBC ☐ other:			
Number of bendings (non-rewirable terminals only)	N/A			
Upper limit temperature	105 °C			
Lower limit temperature	-55 °C			
Maximum ambient temperature at rated current	75 °C			

IP Degree Conditions		
Type of connector	Receptacle & TAB Housing	TAB Header
IP code	IP-10 ☒ mated ☐ unmated	IP-00 ☒ mated ☐ unmated
Backshell	N/A	N/A
Cable clamp	N/A	N/A
Cable range	N/A	N/A
Fastening torque	N/A	N/A

TÜV Rheinland Group

2021 Oct. 29

(Date and Signature by TÜVR)

In Masuda

Kawasaki

(Place)

Tyco Electronics Japan G.K.

(Stamp and Signature of Applicant)

2021.10.29

(Date)

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Insulation Coordination	
Overvoltage category	II and III
Pollution degree	2
Test voltages	Contact – contact : 4000 V a.c. Enclosure – contact : 4000 V a.c.
Minimum creepage distances	Contact – contact : 6.65 mm Enclosure – contact : 2.4 mm
Minimum clearance distances	Contact – contact : 4.35 mm Enclosure – contact : 2.4 mm (not applicable for header)
Insulation system (IEC 60664-1) <i>Under the following conditions:</i>	Contact – contact : ☒ basic ☐ reinforced ☐ NA Enclosure – contact : ☒ basic ☐ reinforced ☐ NA Enclosure – contact (Header): ☐ basic ☐ reinforced ☒ NA Header parts are for PCB mounting, proper level of insulation need to be provided by installation.

Specifications (terminals)	
Type of terminals	☐ WRAPPED CONNECTIONS ☐ CLIP CONNECTIONS ☐ INSULATION DISPLACEMENT CONNECTIONS ☐ SCREWLESS TERMINALS ☐ FLAT, QUICK CONNECT TERMINATIONS ☒ SOLDER TERMINALS ☒ CRIMPED CONNECTIONS ☐ PRESS-IN CONNECTIONS ☐ SCREW TERMINALS ☐ other:
Terminal designation	
Spec. Tightening torque	N/A
Rated cross section of conductor	AWG# 12 - 16
Type of conductor	Flexible
Required preparation of the conductor	N/A
Max. Stripping length	5 mm
Max. Number of conductors per terminal	1

Materials		
Type designation	Receptacle, TAB housing and TAB Header	
Contact material	Copper Alloy, Tin or Gold plating	
Contact block (housing)	Pin Front Insert	N/A
	Pin Middle Insert	N/A
	Pin Rear Insert	N/A

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TYPE NOMENCLATURE:

Contacts:

Wire Range	Receptacle		TAB	
	Strip Form	Loose Form	Strip Form	Loose Form
AWG# 16-14	1747418-2	1747499-2	1747419-2	1747501-2
			1-1747419-2	1-1747501-2
AWG# 14-12	1747415-2	1747498-2	1747416-2	1747500-2
			1-1747416-2	1-1747500-2

Note; The prefix 1- denote long size Tab contacts (to be used for protective earthing contact. contact identification is ensured in the end-use product).

D-4200 models:

Connector (Tab housing):

Poles	Panel Mount	Free Hanging
	Part Number	Part Number
2	X-1747535-2	X-1747414-2
3	X-1747535-3	X-1747414-3
4	X-1747535-4	X-1747414-4
6	X-1903331-3	X-1903330-3
8	X-2390395-4	----

Note; The prefix "X"- denote Keying type (e.g. 1~9.)

Connector (receptacle):

Poles	Part Number
2	X-1747276-2
3	X-1747276-3
4	X-1727476-4
6	X-1903329-3
8	X-2390394-4

Connector (header):

	(Vertical type)	(Horizontal type)
Poles	Part Number	Part Number
2	X-1747277-2	X-1903328-2
3	X-1747277-3	X-1903328-3
4	X-1747277-4	X-1903328-4

End of the documentations.

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