

# Network cable - NBC-MSD/ 2,0-937 SCO RAIL



1407339

<https://www.phoenixcontact.com/us/products/1407339>

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Network cable, PROFINET CAT5 (100 Mbps), Ethernet CAT5 (100 Mbps), 4-position, shielded, Plug straight M12 SPEEDCON / IP65, coding: D, on free cable end, cable length: 2 m, For railway applications

## Your advantages

- Easy and safe: 100% electrically tested plug-in components
- Securely locked by special vibration brake
- Resistant to temperature influences – tested for an extended temperature range and for resistance to temperature shocks
- Reliable signal transmission – 360° shielding in environments with electromagnetic interference

## Commercial Data

Item number	1407339
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to Order (non-returnable)
Sales Key	B06
Product Key	BF1CJN
Catalog Page	Page 133 (C-4-2013)
GTIN	4046356774550
Weight per Piece (including packing)	144.4 g
Weight per Piece (excluding packing)	144.4 g
Customs tariff number	85444290
Country of origin	PL

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## Technical Data

### Notes

General	Further products with variable cable type and variable cable length can be found in the accessories section
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### Product properties

Product type	Data cable preassembled
Number of positions	4
Application	Railway applications
No. of cable outlets	1
Shielded	yes
Coding	D - data

### Insulation characteristics

Overvoltage category	II
Degree of pollution	3

### Interfaces

Bus system	PROFINET
	Ethernet
Signal type/category	PROFINET CAT5 (IEC 11801), 100 Mbps
	Ethernet CAT5 (IEC 11801), 100 Mbps

### LED signaling

Status display	No
Status display present	No

### Electrical properties

Nominal voltage $U_N$	48 V AC
	60 V DC
Nominal current $I_N$	4 A
Transmission medium	Copper

### Material specifications

Color Handle area	black
Flammability rating according to UL 94	V0

### Connector

#### Connection 1

Type	Plug straight M12 SPEEDCON / IP65
Number of positions	4
Coding type	D (Data)
Shielded	yes

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Handle color	black
Material	CuSn (Contact)
	Ni/Au (Contact surface)
	PA 6.6 (Contact carriers)
	PA 6.6 (Grip)
	Zinc die-cast, nickel-plated (Screw connection)
Standards/regulations	PA 6.6: Fire protection in rail vehicles - requirement sets R22, R23, and R24 acc. to DIN EN 45545-2 (Risk level HL1 - HL3)
Insertion/withdrawal cycles	≥ 100
Contact resistance	≤ 5 mΩ
Insulation resistance	≥ 100 MΩ
Tightening torque	0.4 Nm
Degree of protection	IP65
Ambient temperature (operation)	-40 °C ... 85 °C

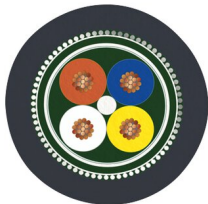
## Connection 2

Type	free cable end
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## Cable / line

Cable length	2 m
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## PROFINET RADOX<sup>®</sup> railway application CAT5 [937]

Dimensional drawing	
Cable weight	70 kg/km
Number of positions	4
Shielded	yes
Cable type	PROFINET RADOX <sup>®</sup> railway application CAT5 [937]
Conductor structure	1x4xAWG22/7; SF/TQ
Signal speed	75 c
Conductor structure signal line	7x 0.25 mm
AWG signal line	22
Conductor cross section	4x 0.34 mm <sup>2</sup>
Wire diameter incl. insulation	approx. 1.5 mm
External cable diameter	6.6 mm ±0.4 mm
Outer sheath, material	PE-X
External sheath, color	black RAL 9005
Conductor material	silver-plated Cu litz wires
Material wire insulation	Foamed PE

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Single wire, color	white-blue, orange-yellow
Thickness, outer sheath	approx. 1 mm
Overall twist	Star quad
Max. conductor resistance	≤ 54.4 Ω/km
Coupling resistance	200.00 mΩ/m (f ≤ 30 MHz)
Wave impedance	100 Ω ±5 Ω (f = 100 MHz)
Working capacitance	≤ 65 pF (core-core)
	≤ 100 pF (core-shield)
Nominal voltage, cable	300 V AC
Test voltage	2000 V AC (50 Hz, 5 minutes)
Minimum bending radius, fixed installation	6 x D
Near end crosstalk attenuation (NEXT)	73 dB (with 1 MHz)
	70 dB (at 4 MHz)
	65 dB (at 10 MHz)
	57 dB (at 31.5 MHz)
	52 dB (at 62.5 MHz)
	48 dB (at 100 MHz)
Return loss (RL)	25 dB (at 4 MHz)
	30 dB (at 10 MHz)
	30 dB (at 31.5 MHz)
	30 dB (at 62.5 MHz)
	28 dB (at 100 MHz)
Remote crosstalk attenuation (FEXT)	78 dB (with 1 MHz)
	77 dB (at 4 MHz)
	70 dB (at 10 MHz)
	65 dB (at 31.5 MHz)
	56 dB (at 62.5 MHz)
	48 dB (at 100 MHz)
Shield attenuation	2 dB (with 1 MHz)
	4.4 dB (at 4 MHz)
	7.4 dB (at 10 MHz)
	14 dB (at 31.5 MHz)
	20 dB (at 62.5 MHz)
	26 dB (at 100 MHz)
	40 dB (30 MHz ≤ f ≤ 100 MHz)
Halogen-free	in accordance with EN 50267-2-1
Flame resistance	EN 60332-1-2
	EN 50266
	EN 60332-3-25
	NF C32-070, 2.1
	NF C32-070, 2.2
	UL 1685, 12 (FT4)
	in accordance with ISO 6722-1 5.22 (UN ECE-R 118.01)
Resistance to oil	according to IRM 902, 72 h at 100 °C

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Fire protection in rail vehicles	BS 6853 (Category Ia, Ib, II)
	GM/RT 2130 (Category Ia, Ib, II)
	EN 45545 (Risk level HL1 - HL3)
	DIN 5510 (Fire protection level 1, 2, 3, 4)
	NF F16-101 (Category A1, A2, B)
	NF F16-101 (Class C/F0)
	NFPA 130
	UNI CEI 11170 (Risk level LR1 - LR4)
Other resistance	Resistance to fuels according to IRM 903, 168 h at 70 °C
Ambient temperature (operation)	-50 °C ... 90 °C (cable, fixed installation)
	-40 °C ... 90 °C (Cable, flexible installation)
Ambient temperature (installation)	-25 °C ... 90 °C

## Ambient conditions

Degree of protection	IP65
Ambient temperature (operation)	-40 °C ... 85 °C (Plug / socket)

## Standards and regulations

### M12

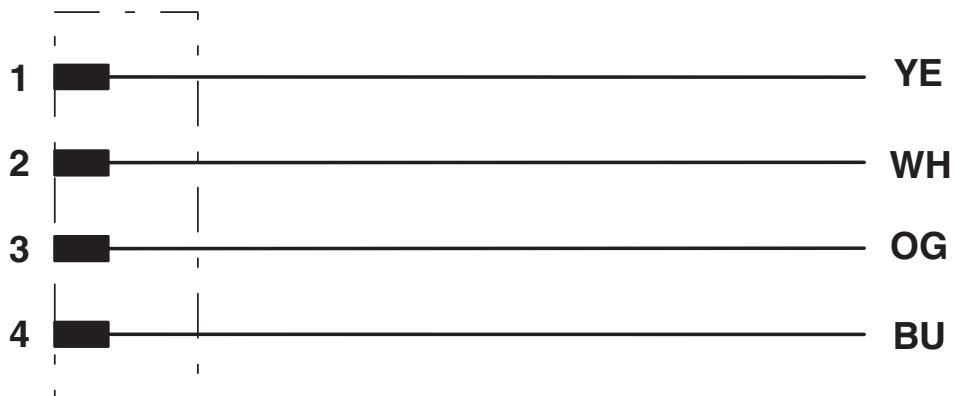
Standards/specifications	IEC 61076-2-101
Standards/specifications	EN 50155

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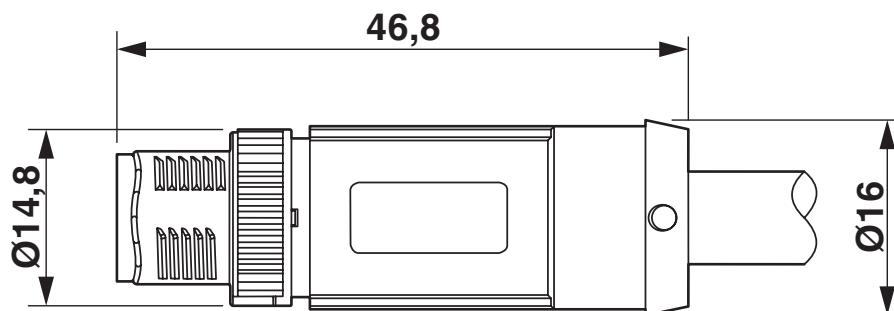
<https://www.phoenixcontact.com/us/products/1407339>

## Drawings

Circuit diagram



Dimensional drawing



M12 SPEEDCON plug, straight, shielded

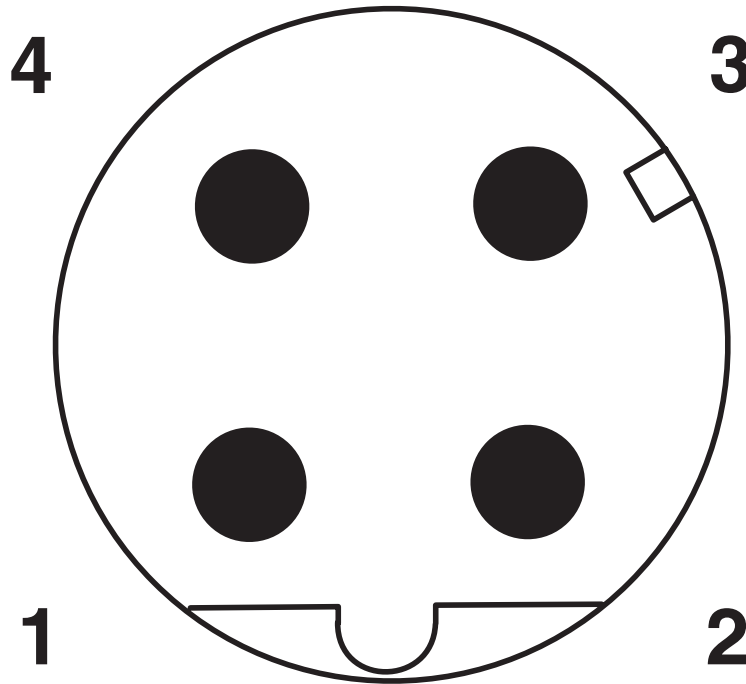
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Schematic diagram



Pin assignment M12 male connector, 4-pos., D-coded, male side

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## Approvals



**EAC**

Approval ID: RU D-DE.HB35.B.00387



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## Classifications

### ECLASS

ECLASS-9.0	27060308
ECLASS-10.0.1	27060308
ECLASS-11.0	27060307

### ETIM

ETIM 8.0	EC001855
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### UNSPSC

UNSPSC 21.0	26121600
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## Environmental Product Compliance

REACH SVHC	Dechlorane Plus
China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

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## Accessories

### Network cable

Network cable - NBC-MSD SCO RAIL/.../... - 1412178

<https://www.phoenixcontact.com/us/products/1412178>



Network cable, PROFINET CAT5 (100 Mbps), Ethernet CAT5 (100 Mbps), 4-position, Variable cable type, shielded, Plug straight M12 SPEEDCON / IP65, coding: D, on free cable end, cable length: Free input (0.2 ... 40.0 m), For railway applications

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### Network cable

Network cable - NBC-MRD SCO RAIL/.../... - 1412179

<https://www.phoenixcontact.com/us/products/1412179>



Network cable, PROFINET CAT5 (100 Mbps), Ethernet CAT5 (100 Mbps), 4-position, Variable cable type, shielded, Plug angled M12 SPEEDCON / IP65, coding: D, on free cable end, cable length: Free input (0.2 ... 40.0 m), For railway applications

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## Network cable

Network cable - NBC-MSD-MSD SCO RAIL/.../... - 1412177

<https://www.phoenixcontact.com/us/products/1412177>



Network cable, PROFINET CAT5 (100 Mbps), Ethernet CAT5 (100 Mbps), 4-position, Variable cable type, shielded, Plug straight M12 SPEEDCON / IP65, coding: D, on Plug straight M12 SPEEDCON / IP65, coding: D, cable length: Free input (0.2 ... 40.0 m), For railway applications

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## Network cable

Network cable - NBC-FSD SCO RAIL/.../... - 1412181

<https://www.phoenixcontact.com/us/products/1412181>



Network cable, PROFINET CAT5 (100 Mbps), Ethernet CAT5 (100 Mbps), 4-position, Variable cable type, shielded, free cable end, on Socket straight M12 SPEEDCON / IP65, coding: D, cable length: Free input (0.2 ... 40.0 m), For railway applications

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## Torque screwdriver

Torque screwdriver - TSD 04 SAC - 1208429

<https://www.phoenixcontact.com/us/products/1208429>



Torque screwdriver, with preset torque of 0.4 Nm and 4 mm hexagonal drive for M12 connectors

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## Torque screwdriver

Torque screwdriver - TSD-M 1,2NM - 1212224

<https://www.phoenixcontact.com/us/products/1212224>



Torque screw driver, accuracy as per EN ISO 6789 standard, adjustable from 0.3 - 1.2 Nm

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<https://www.phoenixcontact.com/us/products/1407339>

## Adapter insert

Adapter insert - TSD-M SAC-BIT ADAPTER - 1212600

<https://www.phoenixcontact.com/us/products/1212600>



Adapter bit for TSD-M...torque tools, E6.3-1/4" drive with 4 mm hexagon to accommodate SAC bits

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## Tool

Tool - SAC BIT M12-D15 - 1208432

<https://www.phoenixcontact.com/us/products/1208432>



Nut for assembling sensor/actuator cables with M12 connector and M12 connectors for assembly, with a knurl diameter of 15 mm, for 4 mm hexagonal drive

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## Sealing cap

Sealing cap - PROT-M12 FS-PA-CHAIN - 1430873

<https://www.phoenixcontact.com/us/products/1430873>

M12 sealing cap made of plastic with fixing band, for sensor cables, for free M12 plugs



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## Locking clip

Locking clip - SAC-M12-EXCLIP-M - 1558988

<https://www.phoenixcontact.com/us/products/1558988>

Locking clip for the pin side of sensor/actuator cables with M12 connector and M12 connectors for assembly, for knurl diameter: 15 mm or for Allen key with a wrench size of 14 mm, prevents the disconnection of plug-in connections without tools



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<https://www.phoenixcontact.com/us/products/1407339>

## Marker pen

Marker pen - B-STIFT - 1051993

<https://www.phoenixcontact.com/us/products/1051993>



Marker pen, for manual labeling of unprinted Zack strips, smear-proof and waterproof, line thickness 0.5 mm

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## Conductor marker carrier

Conductor marker carrier - PATG HF 3/18 - 1014059

<https://www.phoenixcontact.com/us/products/1014059>



Conductor marker carrier, transparent/black, unlabeled, mounting type: slide-on, cable diameter range: 4 ... 7 mm, lettering field size: 18 x 4 mm



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## Conductor marker carrier

Conductor marker carrier - PATG HF 3/23 - 1014060

<https://www.phoenixcontact.com/us/products/1014060>



Conductor marker carrier, transparent/black, unlabeled, mounting type: slide-on, cable diameter range: 4 ... 7 mm, lettering field size: 23 x 4 mm

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## Conductor marker carrier

Conductor marker carrier - PATG HF 3/30 - 1014061

<https://www.phoenixcontact.com/us/products/1014061>



Conductor marker carrier, transparent/black, unlabeled, mounting type: slide-on, cable diameter range: 4 ... 7 mm, lettering field size: 30 x 4 mm

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## Conductor marker carrier

Conductor marker carrier - PATG HF 4/18 - 1014065

<https://www.phoenixcontact.com/us/products/1014065>



Conductor marker carrier, transparent/black, unlabeled, mounting type: slide-on, cable diameter range: 5 ... 10 mm, lettering field size: 18 x 4 mm

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## Conductor marker carrier

Conductor marker carrier - PATG HF 4/23 - 1014066

<https://www.phoenixcontact.com/us/products/1014066>



Conductor marker carrier, transparent/black, unlabeled, mounting type: slide-on, cable diameter range: 5 ... 10 mm, lettering field size: 23 x 4 mm

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<https://www.phoenixcontact.com/us/products/1407339>

## Conductor marker carrier

Conductor marker carrier - PATG HF 4/30 - 1014067

<https://www.phoenixcontact.com/us/products/1014067>



Conductor marker carrier, transparent/black, unlabeled, mounting type: slide-on, cable diameter range: 5 ... 10 mm, lettering field size: 30 x 4 mm

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## Cable marker carrier

Cable marker carrier - KMK HP (25X6) - 0830720

<https://www.phoenixcontact.com/us/products/0830720>



Cable marker carrier, transparent, unlabeled, mounting type: Assembly with cable ties, cable diameter:  $\geq 6$  mm, lettering field size: 25 mm x 6 mm

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<https://www.phoenixcontact.com/us/products/1407339>

## Cable marker carrier

Cable marker carrier - KMK HP (29X8) - 0830721

<https://www.phoenixcontact.com/us/products/0830721>

Cable marker carrier, transparent, unlabeled, mounting type: Assembly with cable ties, cable diameter:  $\geq 6$  mm, lettering field size: 29 x 8 mm



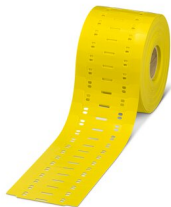
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## Cable marker

Cable marker - WMTB HF (40X12)R YE - 0830408

<https://www.phoenixcontact.com/us/products/0830408>

Cable marker, Roll, yellow, unlabeled, can be labeled with: THERMOMARK E. 300 (D)/600 (D), THERMOMARK ROLL 2.0, THERMOMARK ROLL, THERMOMARK ROLL X1, THERMOMARK ROLLMASTER 300/600, THERMOMARK X1.2, mounting type: Assembly with cable ties, cable diameter:  $\geq 6$  mm, lettering field size: 40 x 12 mm, Number of individual labels: 1000



# Network cable - NBC-MSD/ 2,0-937 SCO RAIL



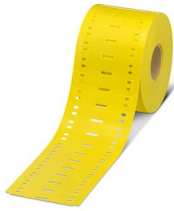
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<https://www.phoenixcontact.com/us/products/1407339>

## Cable marker

Cable marker - WMTB HF (55X15)R YE - 0830410

<https://www.phoenixcontact.com/us/products/0830410>



Cable marker, Roll, yellow, unlabeled, can be labeled with: THERMOMARK E. 300 (D)/600 (D), THERMOMARK ROLL 2.0, THERMOMARK ROLL, THERMOMARK ROLL X1, THERMOMARK ROLLMASTER 300/600, THERMOMARK X1.2, mounting type: Assembly with cable ties, cable diameter:  $\geq 6$  mm, lettering field size: 55 x 15 mm, Number of individual labels: 1000

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## Cable marker

Cable marker - WMTB HF (55X25)R YE - 0830412

<https://www.phoenixcontact.com/us/products/0830412>



Cable marker, Roll, yellow, unlabeled, can be labeled with: THERMOMARK E. 300 (D)/600 (D), THERMOMARK ROLL 2.0, THERMOMARK ROLL, THERMOMARK ROLL X1, THERMOMARK ROLLMASTER 300/600, THERMOMARK X1.2, mounting type: Assembly with cable ties, cable diameter:  $\geq 6$  mm, lettering field size: 55 x 25 mm, Number of individual labels: 500

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## Shrink sleeve

Shrink sleeve - WMS-2 HF 6,4 (60X10)RL YE - 0801025

<https://www.phoenixcontact.com/us/products/0801025>



Shrink sleeve, Roll, yellow, unlabeled, can be labeled with: THERMOMARK E. 300 (D)/600 (D), THERMOMARK ROLLMASTER 300/600, THERMOMARK ROLL X1, THERMOMARK ROLL, THERMOMARK ROLL 2.0, THERMOMARK W, THERMOMARK X1.2, unperforated, mounting type: slide-on, cable diameter range: 3.2 ... 6.4 mm, lettering field size: 60 x 10 mm, Number of individual labels: 1000

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## Shrink sleeve

Shrink sleeve - WMS-2 HF 6,4 (EX10)RL YE - 0833244

<https://www.phoenixcontact.com/us/products/0833244>



Shrink sleeve, Roll, yellow, unlabeled, can be labeled with: THERMOMARK E. SLEEVE, THERMOMARK E.300 (D)/600 (D), THERMOMARK ROLLMASTER 300/600, THERMOMARK ROLL X1, THERMOMARK ROLL, THERMOMARK ROLL 2.0, THERMOMARK W, THERMOMARK X1.2, unperforated, mounting type: slide-on, cable diameter range (automated processing): 3.2 ... 5 mm, cable diameter range: 3.2 ... 6.4 mm, lettering field size: 10 x 100000 mm, roll length: 100 m

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## Shrink sleeve

Shrink sleeve - WMS-2 HF 9,5 (60X16)RL YE - 0801029

<https://www.phoenixcontact.com/us/products/0801029>



Shrink sleeve, Roll, yellow, unlabeled, can be labeled with: THERMOMARK E. 300 (D)/600 (D), THERMOMARK ROLLMASTER 300/600, THERMOMARK ROLL X1, THERMOMARK ROLL, THERMOMARK ROLL 2.0, THERMOMARK W, THERMOMARK X1.2, unperforated, mounting type: slide-on, cable diameter range: 4.8 ... 9.5 mm, lettering field size: 60 x 16 mm, Number of individual labels: 500

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## Shrink sleeve

Shrink sleeve - WMS-2 HF 9,5 (EX16)RL YE - 0833245

<https://www.phoenixcontact.com/us/products/0833245>



Shrink sleeve, Roll, yellow, unlabeled, can be labeled with: THERMOMARK E. SLEEVE, THERMOMARK E.300 (D)/600 (D), THERMOMARK ROLLMASTER 300/600, THERMOMARK ROLL X1, THERMOMARK ROLL, THERMOMARK ROLL 2.0, THERMOMARK W, THERMOMARK X1.2, unperforated, mounting type: slide-on, cable diameter range (automated processing): 4.8 ... 8 mm, cable diameter range: 4.8 ... 9.5 mm, roll length: 80 m

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## Wire marking

Wire marking - UCT-WMCO 5,4 (23X8) - 0832105

<https://www.phoenixcontact.com/us/products/0832105>



Wire marking, Sheet, white, unlabeled, can be labeled with: TOPMARK NEO, TOPMARK LASER, BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, THERMOMARK PRIME, THERMOMARK CARD 2.0, THERMOMARK CARD, mounting type: clip on, cable diameter range: 4.7 ... 5.4 mm, lettering field size: 23 x 8 mm, Number of individual labels: 18

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## Wire marking

Wire marking - UCT-WMCO 6,1 (23X8) - 0832106

<https://www.phoenixcontact.com/us/products/0832106>



Wire marking, Sheet, white, unlabeled, can be labeled with: TOPMARK NEO, TOPMARK LASER, BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, THERMOMARK PRIME, THERMOMARK CARD 2.0, THERMOMARK CARD, mounting type: clip on, cable diameter range: 5.4 ... 6.1 mm, lettering field size: 23 x 8 mm, Number of individual labels: 18



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## Wire marking

Wire marking - UCT-WMCO 6,8 (23X8) - 0832107

<https://www.phoenixcontact.com/us/products/0832107>



Wire marking, Sheet, white, unlabeled, can be labeled with: TOPMARK NEO, TOPMARK LASER, BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, THERMOMARK PRIME, THERMOMARK CARD 2.0, THERMOMARK CARD, mounting type: clip on, cable diameter range: 6.1 ... 6.8 mm, lettering field size: 23 x 8 mm, Number of individual labels: 15

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## Wire marking

Wire marking - UCT-WMCO 7,5 (23X8) - 0832108

<https://www.phoenixcontact.com/us/products/0832108>



Wire marking, Sheet, white, unlabeled, can be labeled with: TOPMARK NEO, TOPMARK LASER, BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, THERMOMARK PRIME, THERMOMARK CARD 2.0, THERMOMARK CARD, mounting type: clip on, cable diameter range: 6.8 ... 7.5 mm, lettering field size: 23 x 8 mm, Number of individual labels: 15

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## Cable marker

Cable marker - WMTB-AL (40X15) - 0830524

<https://www.phoenixcontact.com/us/products/0830524>



Cable marker, Aluminum label, aluminum color, unlabeled, can be labeled with: BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, mounting type: Assembly with cable ties, cable diameter: > 4.6 mm, lettering field size: 40 x 15 mm

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## Cable marker

Cable marker - WMTB-AL (60X15) - 0830525

<https://www.phoenixcontact.com/us/products/0830525>



Cable marker, Aluminum label, aluminum color, unlabeled, can be labeled with: BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, mounting type: Assembly with cable ties, cable diameter: > 4.6 mm, lettering field size: 60 x 15 mm

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## Cable marker

Cable marker - LS-WMTB-AL (40X15) - 0831501

<https://www.phoenixcontact.com/us/products/0831501>



Cable marker, Aluminum label, aluminum color, unlabeled, can be labeled with: TOPMARK NEO, TOPMARK LASER, mounting type: Assembly with cable ties, cable diameter: > 4.6 mm, lettering field size: 40 x 15 mm, Number of individual labels: 16

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## Cable marker

Cable marker - LS-WMTB-AL (40X15) BK - 0831509

<https://www.phoenixcontact.com/us/products/0831509>



Cable marker, Aluminum label, black, unlabeled, can be labeled with: TOPMARK NEO, TOPMARK LASER, mounting type: Assembly with cable ties, cable diameter: > 4.6 mm, lettering field size: 40 x 15 mm, Number of individual labels: 16

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## Cable marker

Cable marker - LS-WMTB-AL (60X15) - 0831502

<https://www.phoenixcontact.com/us/products/0831502>



Cable marker, Aluminum label, aluminum color, unlabeled, can be labeled with: TOPMARK NEO, TOPMARK LASER, mounting type: Assembly with cable ties, cable diameter: > 4.6 mm, lettering field size: 60 x 15 mm, Number of individual labels: 16

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## Cable marker

Cable marker - LS-WMTB-AL (60X15) BK - 0831510

<https://www.phoenixcontact.com/us/products/0831510>



Cable marker, Aluminum label, black, unlabeled, can be labeled with: TOPMARK NEO, TOPMARK LASER, mounting type: Assembly with cable ties, cable diameter: > 4.6 mm, lettering field size: 60 x 15 mm, Number of individual labels: 16

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<https://www.phoenixcontact.com/us/products/1407339>

## Cable marker

Cable marker - LS-WMTB-AL (100X15) - 0831503

<https://www.phoenixcontact.com/us/products/0831503>

Cable marker, Aluminum label, aluminum color, unlabeled, can be labeled with: TOPMARK NEO, TOPMARK LASER, mounting type: Assembly with cable ties, cable diameter: > 4.6 mm, lettering field size: 100 x 15 mm, Number of individual labels: 8



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## Cable marker

Cable marker - LS-WMTB-AL (100X15) BK - 0831511

<https://www.phoenixcontact.com/us/products/0831511>

Cable marker, Aluminum label, black, unlabeled, can be labeled with: TOPMARK NEO, TOPMARK LASER, mounting type: Assembly with cable ties, cable diameter: > 4.6 mm, lettering field size: 100 x 15 mm, Number of individual labels: 8



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## Cable-cutting tool

Cable-cutting tool - CUTFOX 12 - 1212128

<https://www.phoenixcontact.com/us/products/1212128>



**Cable cutter**, for copper and aluminum up to 12 mm diameter (up to 35 mm<sup>2</sup>)

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## Diagonal cutter

Diagonal cutter - CUTFOX-S VDE - 1212207

<https://www.phoenixcontact.com/us/products/1212207>



Diagonal cutter for hard (piano wire) and soft wires, VDE 1000 V AC/1500 V DC tested

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<https://www.phoenixcontact.com/us/products/1407339>

## Diagonal cutter

Diagonal cutter - MICROFOX-SP-1 - 1212487

<https://www.phoenixcontact.com/us/products/1212487>



Electronic diagonal cutter, tapered head, without chamfer, with opening spring, non-reflective phosphate-treated surface, punched version

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## Stripping tool

Stripping tool - WIREFOX 4 - 1212156

<https://www.phoenixcontact.com/us/products/1212156>



Stripping tool, for cables and conductors (especially for rubber and silicone insulations) from 0.1 - 4 mm<sup>2</sup>, self-adjusting, stripping length of up to 18 mm, cutting capacity of up to 10 mm<sup>2</sup> stranded/1.5 mm<sup>2</sup> solid, replaceable stripping blade

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## Stripping tool

Stripping tool - WIREFOX-E 4 - 1212704

<https://www.phoenixcontact.com/us/products/1212704>



Stripping tool, for cables and conductors (especially for rubber and silicone insulations) from 0.1 - 4 mm<sup>2</sup>, self-adjusting, stripping length of up to 18 mm, cutting capacity of up to 10 mm<sup>2</sup> stranded/1.5 mm<sup>2</sup> solid, replaceable stripping blade

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## Stripping tool

Stripping tool - WIREFOX 10 - 1212150

<https://www.phoenixcontact.com/us/products/1212150>



Stripping tool, for cables and conductors from 0.02 - 10 mm<sup>2</sup>, self-adjusting, stripping length of up to 18 mm, cutting capacity of up to 10 mm<sup>2</sup> stranded/1.5 mm<sup>2</sup> solid, replaceable stripping blade



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<https://www.phoenixcontact.com/us/products/1407339>

## Data connector

Data connector - SACC-M12MSD-4QO SH PN - 1411068

<https://www.phoenixcontact.com/us/products/1411068>



Data connector, PROFINET CAT5 (100 Mbps), 4-position, halogen-free, shielded, Plug straight M12 SPEEDCON, D-coded, Insulation displacement connection, knurl material: Zinc die-cast, nickel-plated, external cable diameter 5 mm ... 9.7 mm

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## Data connector

Data connector - SACC-M12FSD-4QO SH PN - 1411071

<https://www.phoenixcontact.com/us/products/1411071>



Data connector, PROFINET CAT5 (100 Mbps), 4-position, halogen-free, shielded, Socket straight M12 SPEEDCON, D-coded, Insulation displacement connection, knurl material: Zinc die-cast, nickel-plated, external cable diameter 5 mm ... 9.7 mm

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## Data connector

Data connector - SACC-M12MSD-4PL SH PN - 1424682

<https://www.phoenixcontact.com/us/products/1424682>



Data connector, PROFINET CAT5 (100 Mbps), 4-position, shielded, Plug straight M12, D-coded, Push-lock spring connection, knurl material: Zinc die-cast, nickel-plated, external cable diameter 4 mm ... 8 mm

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## Data connector

Data connector - SACC-M12MRD-4PL SH PN - 1424684

<https://www.phoenixcontact.com/us/products/1424684>



Data connector, PROFINET CAT5 (100 Mbps), 4-position, shielded, Plug angled M12, D-coded, Push-lock spring connection, knurl material: Zinc die-cast, nickel-plated, external cable diameter 4 mm ... 8 mm

# Network cable - NBC-MSD/ 2,0-937 SCO RAIL



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<https://www.phoenixcontact.com/us/products/1407339>

## Data connector

Data connector - SACC-M12FSD-4PL SH PN - 1424683

<https://www.phoenixcontact.com/us/products/1424683>



Data connector, PROFINET CAT5 (100 Mbps), 4-position, shielded, Socket straight M12, D-coded, Push-lock spring connection, knurl material: Zinc die-cast, nickel-plated, external cable diameter 4 mm ... 8 mm

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## Data connector

Data connector - SACC-M12FRD-4PL SH PN - 1424685

<https://www.phoenixcontact.com/us/products/1424685>



Data connector, PROFINET CAT5 (100 Mbps), 4-position, shielded, Socket angled M12, D-coded, Push-lock spring connection, knurl material: Zinc die-cast, nickel-plated, external cable diameter 4 mm ... 8 mm

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<https://www.phoenixcontact.com/us/products/1407339>

## Data connector

Data connector - SACC-M12MSD-4CT-CM SH PN - 1422846

<https://www.phoenixcontact.com/us/products/1422846>



Data connector, PROFINET CAT5 (100 Mbps), 4-position, shielded, Plug straight M12, D-coded, Crimp connection, knurl material: Zinc die-cast, tin-plated, external cable diameter 4.5 mm ... 7.5 mm, without crimp contacts

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## Data connector

Data connector - SACC-M12MRD-4CT-CM SH PN - 1422847

<https://www.phoenixcontact.com/us/products/1422847>



Data connector, PROFINET CAT5 (100 Mbps), 4-position, shielded, Plug angled M12, D-coded, Crimp connection, knurl material: Zinc die-cast, tin-plated, external cable diameter 4.5 mm ... 7.5 mm, without crimp contacts

# Network cable - NBC-MSD/ 2,0-937 SCO RAIL



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<https://www.phoenixcontact.com/us/products/1407339>

## Data connector

Data connector - SACC-M12FSD-4CT-CM SH PN - 1422848

<https://www.phoenixcontact.com/us/products/1422848>



Data connector, PROFINET CAT5 (100 Mbps), 4-position, shielded, Socket straight M12, D-coded, Crimp connection, knurl material: Zinc die-cast, tin-plated, external cable diameter 4.5 mm ... 7.5 mm, without crimp contacts

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## Data connector

Data connector - SACC-M12FRD-4CT-CM SH PN - 1422849

<https://www.phoenixcontact.com/us/products/1422849>



Data connector, PROFINET CAT5 (100 Mbps), 4-position, shielded, Socket angled M12, D-coded, Crimp connection, knurl material: Zinc die-cast, tin-plated, external cable diameter 4.5 mm ... 7.5 mm, without crimp contacts

# Network cable - NBC-MSD/ 2,0-937 SCO RAIL



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<https://www.phoenixcontact.com/us/products/1407339>

## Data connector

Data connector - SACC-PO12MSD-4CT-CM SH PN - 1021830

<https://www.phoenixcontact.com/us/products/1021830>



Data connector, PROFINET CAT5 (100 Mbps), 4-position, shielded, Plug straight M12 Push-Pull, D-coded, Crimp connection, knurl material: PA 6.6, external cable diameter 4.5 mm ... 7.5 mm, without crimp contacts

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## Data connector

Data connector - SACC-PO12MRD-4CT-CM SH PN - 1021831

<https://www.phoenixcontact.com/us/products/1021831>



Data connector, PROFINET CAT5 (100 Mbps), 4-position, shielded, Plug angled M12 Push-Pull, D-coded, Crimp connection, knurl material: PA 6.6, external cable diameter 4.5 mm ... 7.5 mm, without crimp contacts

# Network cable - NBC-MSD/ 2,0-937 SCO RAIL



1407339

<https://www.phoenixcontact.com/us/products/1407339>

## Data connector

Data connector - SACC-M12MSD-4QO SH ETH - 1411066

<https://www.phoenixcontact.com/us/products/1411066>



Data connector, Ethernet CAT5 (100 Mbps), 4-position, halogen-free, shielded, Plug straight M12 SPEEDCON, D-coded, Insulation displacement connection, knurl material: Zinc die-cast, nickel-plated, external cable diameter 5 mm ... 9.7 mm

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## Data connector

Data connector - SACC-M12FSD-4QO SH ETH - 1411069

<https://www.phoenixcontact.com/us/products/1411069>



Data connector, Ethernet CAT5 (100 Mbps), 4-position, halogen-free, shielded, Socket straight M12 SPEEDCON, D-coded, Insulation displacement connection, knurl material: Zinc die-cast, nickel-plated, external cable diameter 5 mm ... 9.7 mm

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