

Network cable - NBC-M8MSD/ 5,0-93C/R4AC - 1423713

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Network cable, PROFINET CAT5 (100 Mbps), EtherCAT® CAT5 (100 Mbps), 4-position, PUR/FRNC halogen-free, green RAL 6018, shielded (Advanced Shielding Technology), Plug straight M8 / IP67, coding: D, on Plug straight RJ45 / IP20, cable length: 5 m



Key Commercial Data

Packing unit	1 pc
GTIN	 4 0 5 5 6 2 6 5 6 9 2 6 0
GTIN	4055626569260
Weight per Piece (excluding packing)	340.000 g
Custom tariff number	85444290
Country of origin	Poland

Technical data

Dimensions

Length of cable	5 m
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Ambient conditions

Degree of protection	IP65 (M12 connector)
	IP67 (M12 connector)
	IP20 (RJ45 connector)
Ambient temperature (operation)	-25 °C ... 90 °C (M12 connector)
	-25 °C ... 80 °C (RJ45 connector)

General data

Note	This product corresponds to the PROFINET Cabling and Interconnection Technology Guideline for PROFINET regulations, version 2.00, order
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Technical data

General data

	no: 2.252, Chapter 8.2 Connectors for Outside Environment (Balanced cabling)
Rated current at 40°C	1 A
Rated voltage	48 V AC 60 V DC
Number of positions	4
Signal type/category	PROFINET CAT5 (IEC 11801), 100 Mbps EtherCAT® CAT5 (IEC 11801), 100 Mbps
Standards/regulations	M8 connector IEC 61076-2-114
Transmission characteristics (category)	CAT5
Transmission speed	100 Mbps

Characteristics head 1

Head type	Plug straight M8 / IP67
No. of positions (pin connector pattern)	4
Coding	D (Data)
Color	black
Material (component)	CuSn (Contact) Ni/Au (Contact surface) PA 6.6 (Contact carriers) TPU, hardly inflammable, self-extinguishing (Grip) Brass, nickel-plated (Screw connection)
Shielded	yes
Insulation resistance	≥ 100 MΩ
Insertion/withdrawal cycles	≥ 100
Torque	0.2 Nm
Ambient temperature (operation)	-25 °C ... 90 °C

Characteristics head 2

Head type	Plug straight RJ45 / IP20
No. of positions (pin connector pattern)	4 (8)
Color	black
Material (component)	CuSn (Contact) Ni/Au (Contact surface) PA (Contact carriers) PA (Housing)
Insertion/withdrawal cycles	≥ 750
Ambient temperature (operation)	-25 °C ... 80 °C

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Technical data

Standards and Regulations

Standards/specifications	M8 connector IEC 61076-2-114
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Cable

Product labeling	"sequential length in metres" PN-CABLE-934-C / PUR-4X22AWG/7 Trailing * 22AWG (SHIELDED) (UL) E119100 CMX 75°C VERIFIED (UL) CAT 5E PATCH CABLE FRNC * (Cable printing cable supplier)
Cable type	PROFINET drag chain CAT5
Cable type (abbreviation)	93C
Signal type/category	PROFINET CAT5 (IEC 11801), 100 Mbps EtherCAT® CAT5 (IEC 11801), 100 Mbps
Cable structure	1x4xAWG22/7; SF/TQ
Conductor cross section	4x 0.34 mm ²
AWG signal line	22
Conductor structure signal line	7x 0.25 mm
Core diameter including insulation	1.5 mm
Wire colors	White, yellow, blue, orange
Overall twist	Star quad
Shielding	Aluminum-coated foil, tinned copper braided shield
Optical shield covering	85 %
External sheath, color	green RAL 6018
Outer sheath thickness	approx. 0.9 mm
External cable diameter D	6.5 mm ±0.2 mm
Minimum bending radius, fixed installation	5 x D
Minimum bending radius, flexible installation	7.5 x D
Number of bending cycles	3000000
Bending radius	100 mm
Traversing path	10 m
Traversing rate	4 m/s
Acceleration	4 m/s ²
Torsion force	± 30 °/m
Tensile strength GRP	≤ 150 N
Cable weight	61 kg/km
Outer sheath, material	PUR
Material, inner sheath	FRNC
Material conductor insulation	PE
Conductor material	Tin-plated Cu litz wires
Insulation resistance	≥ 500 MΩ*km
Loop resistance	≤ 120.00 Ω/km

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Technical data

Cable

Wave impedance	100 Ω ±15 Ω (at 1 ... 100 MHz)	
Near end crosstalk attenuation (NEXT)	80 dB (with 1 MHz)	
	76 dB (at 4 MHz)	
	70 dB (at 10 MHz)	
	65 dB (at 16 MHz)	
	63 dB (at 20 MHz)	
	60 dB (at 31.25 MHz)	
	55 dB (at 62.5 MHz)	
	50 dB (at 100 MHz)	
	Attenuation	2.1 dB (with 1 MHz)
		4 dB (at 4 MHz)
6.3 dB (at 10 MHz)		
8 dB (at 16 MHz)		
9 dB (at 20 MHz)		
11.4 dB (at 31.25 MHz)		
16.5 dB (at 62.5 MHz)		
21.3 dB (at 100 MHz)		
Signal speed		0.66 c
Signal runtime		5.3 ns/m
Coupling resistance	≤ 20.00 mΩ/m (at 10 MHz)	
Nominal voltage, cable	600 V (UL rating)	
Test voltage Core/Core	2000 V (50 Hz, 1 min.)	
Test voltage Core/Shield	2000 V (50 Hz, 1 min.)	
Special properties	Electrical properties according to EN 50288-2-2	
Flame resistance	according to IEC 60332-1-2	
Halogen-free	yes	
Resistance to oil	in accordance with DIN EN 60811-2-1	
Other resistance	UV resistant	
Ambient temperature (operation)	-40 °C ... 70 °C (cable, fixed installation)	
	-40 °C ... 70 °C (Cable, flexible installation)	
Ambient temperature (installation)	-20 °C ... 60 °C	
Ambient temperature (storage/transport)	-50 °C ... 70 °C	
Shielded	yes	

Environmental Product Compliance

China RoHS	Environmentally Friendly Use Period = 50 years
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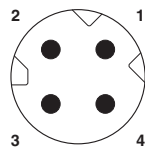
Technical data

Environmental Product Compliance

	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"
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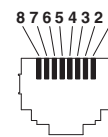
Drawings

Schematic diagram



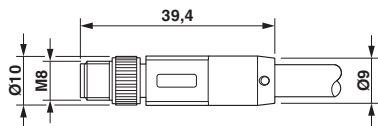
Pin assignment M8 male connector, 4-pos., D-coded, view of pin side

Schematic diagram



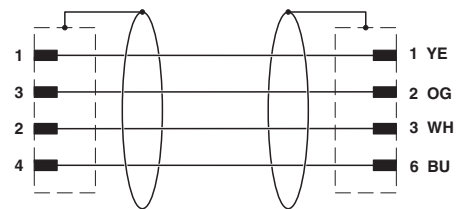
Connector pin assignment plug RJ45

Dimensional drawing



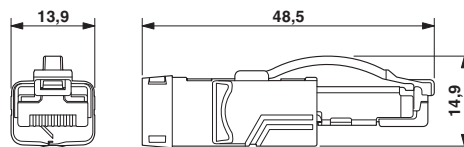
Plug M8 x 1, straight, shielded

Circuit diagram



Contact assignment of the M8 and RJ45 plug

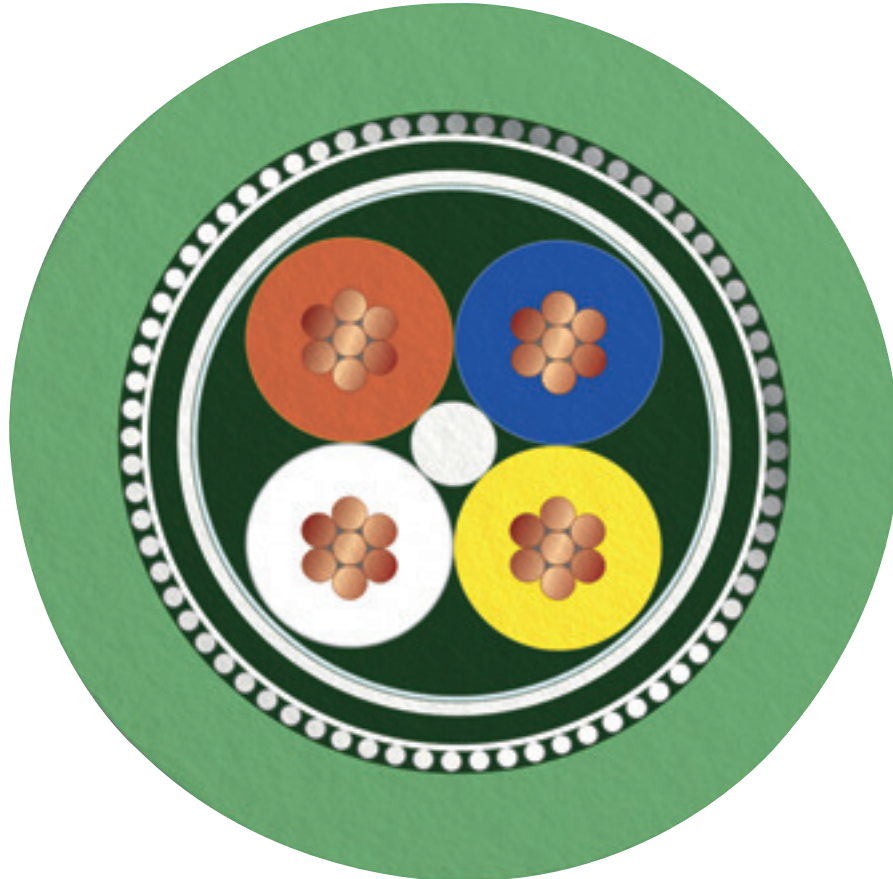
Dimensional drawing



RJ45 connector, IP20

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Cable cross section



PROFINET drag chain CAT5 [93C]

Classifications

eCl@ss

eCl@ss 10.0.1	27060308
eCl@ss 11.0	27060307
eCl@ss 7.0	27060308
eCl@ss 9.0	27060308

ETIM

ETIM 6.0	EC001262
ETIM 7.0	EC001855

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Classifications

UNSPSC

UNSPSC 18.0	26121604
UNSPSC 19.0	26121604
UNSPSC 20.0	26121604
UNSPSC 21.0	26121604

Approvals


Approvals


Approvals


EAC-RoHS / EAC / UL Listed / cUL Listed / cULus Listed


Ex Approvals

Approval details

EAC-RoHS		RU D- DE.HB35.B.00385
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EAC		RU C- DE.BL08.B.00286
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UL Listed		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	E335024
Nominal voltage UN		30 V	
Nominal current IN		0.5 A	

cUL Listed		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	E335024
Nominal voltage UN		30 V	

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Approvals

Nominal current I _N	0.5 A
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cULus Listed	
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