

NBC-M12FSBPS-RJ45S-93B/0,12 - Network cable



1221641

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Network cable, degree of protection: IP20, cable length: 0.12 m, number of positions: 4, 100 Mbps, CAT5, PROFINET, 1x4xAWG22/7, SF/TQ, green RAL 6018

Your advantages

- Perfect for industrial applications
- Compact angle
- Perfect for office, building, and protected industrial applications (e.g., in control cabinets)

Commercial data

Item number	1221641
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	ABNPAB
Product key	ABNPAB
GTIN	4063151309947
Weight per piece (including packing)	81,377 g
Weight per piece (excluding packing)	81,377 g
Customs tariff number	85444290
Country of origin	PL

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Technical data

Product properties

Sensor type	PROFINET
Number of positions	4
Shielded	yes

Material specifications

Flammability rating according to UL 94	V0
Outer sheath, material	PVC
Conductor material	Tin-plated Cu litz wires

Electrical properties

Nominal current I_N	2 A
Transmission medium	Copper
Transmission speed	100 Mbps
Transmission characteristics (category)	CAT5 (IEC 11801:2002)

Connector

Connection 1

Type	Flush-type female connector straight M12
Locking type	SPEEDCON
Coding type	D
Degree of protection	IP65/IP67

Connection 2

Type	Plug straight RJ45
Degree of protection	IP20

Cable/line

Cable length	0.12 m
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PROFINET PVC stranded CAT5 [93B]

Dimensional drawing	
Cable weight	67 kg/km
UL AWM Style	21694
Number of positions	4

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Shielded	yes
Cable type	PROFINET PVC stranded CAT5 [93B]
Conductor structure	1x4xAWG22/7, SF/TQ
Signal runtime	5.3 ns/m
Signal speed	0.66 c
Conductor structure signal line	7x 0.25 mm
AWG signal line	22
Conductor cross-section	4x 0.34 mm²
Wire diameter incl. insulation	1.55 mm
External cable diameter	6.50 mm ±0.2 mm
Outer sheath, material	PVC
External sheath, color	green RAL 6018
Conductor material	Tin-plated Cu litz wires
Material wire insulation	PE
Single wire, color	white, yellow, blue, orange
Thickness, outer sheath	approx. 0.90 mm
Overall twist	Star quad
Optical shield covering	85 %
Insulation resistance	≥ 500 MΩ*km
Coupling resistance	≤ 20.00 mΩ/m (at 10 MHz)
Loop resistance	≤ 120.00 Ω/km
Wave impedance	100 Ω ±15 Ω (at 100 MHz)
Nominal voltage, cable	600 V
Test voltage Core/Core	2000 V (50 Hz, 1 min.)
Test voltage Core/Shield	2000.00 V (50 Hz, 1 min.)
Minimum bending radius, fixed installation	3 x D
Minimum bending radius, flexible installation	7 x D
Smallest bending radius, fixed installation	20 mm
Smallest bending radius, movable installation	46 mm
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)
Shield 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)

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	21.3 dB (at 100 MHz)
Flame resistance	according to UL 1685 (CSA FT 4)
Resistance to oil	Resistant to oil to a limited extent
Other resistance	UV resistant (according to UL 1581, Section 1200)
Ambient temperature (operation)	-40 °C ... 70 °C (cable, fixed installation)
	-40 °C ... 70 °C (Cable, flexible installation)
Ambient temperature (installation)	-20 °C ... 60 °C

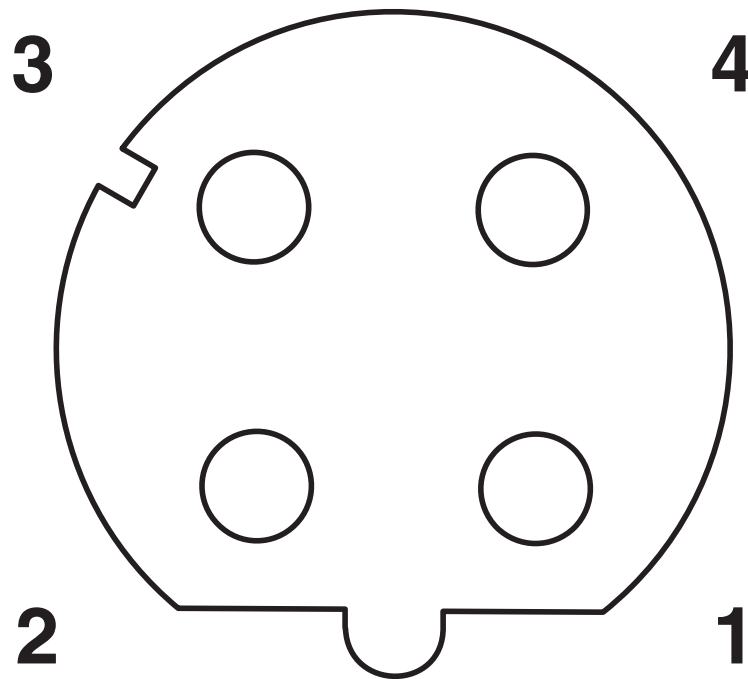
Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20 (RJ45 jack)
	IP65/IP67 (M12 socket)
	IP20

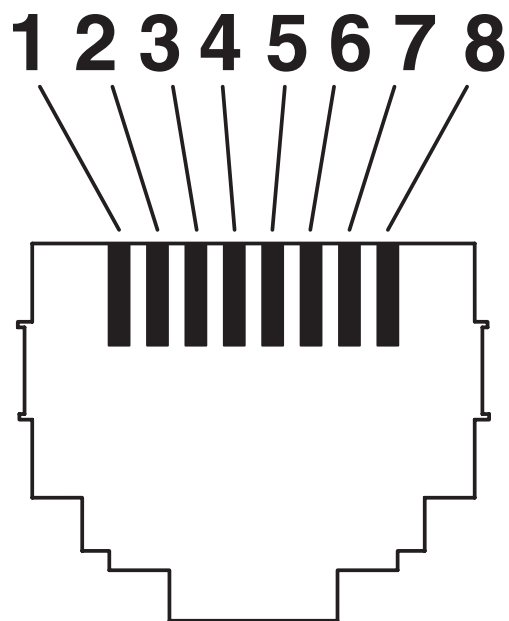
Drawings

Schematic diagram



Pin assignment M12 socket, 4-pos., D-coded, female side

Schematic diagram



RJ45 jack insert

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Approvals

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EAC

Approval ID: 19060508

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Classifications

ECLASS

ECLASS-15.0	27440103
ECLASS-13.0	27440103

ETIM

ETIM 10.0	EC003570
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UNSPSC

UNSPSC 21.0	39121400
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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
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China RoHS

Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits

EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%
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