

NBC-M12MS-M12MS/94L/... - Network cable



1201768

<https://www.phoenixcontact.com/us/products/1201768>

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Network cable, Ethernet CAT5e (1 Gbps), 8-position, TPE, highly flexible, turquoise, Plug straight M12, coding: A / IP65, on Plug straight M12, coding: A / IP65

Commercial data

Item number	1201768
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	BF17
Product key	AF1IHD
Weight per piece (including packing)	22.22 g
Weight per piece (excluding packing)	22.22 g
Customs tariff number	85444290
Country of origin	US

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Technical data

Product properties

Product type	Data cable preassembled
Application	Standard, U.S. cables
Sensor type	Ethernet
Number of positions	8
Shielded	yes
Coding	A

Interfaces

Bus system	Ethernet
Signal type/category	Ethernet CAT5e, 1 Gbps

Signaling

Status display	no
Status display present	no

Electrical properties

Nominal voltage U_N	48 V AC
	60 V DC
Nominal current I_N	2 A (Plug/socket in accordance with IEC 61076-2-101, cable technical data is to be observed)
Transmission medium	Copper

Material specifications

Material of grip body	TPU, hardly inflammable, self-extinguishing
Contact material	CuSn
Contact surface material	Ni/Au
Contact carrier material	TPU GF
Material for screw connection	Zinc die-cast, nickel-plated

Connector

Connection 1

Type	Plug straight M12 / IP65
Coding type	A (Standard)
Degree of protection	IP65

Connection 2

Type	Plug straight M12 / IP65
Coding type	A (Standard)
Degree of protection	IP65

Cable/line


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Highly flexible Ethernet CAT5e [94L]

Dimensional drawing	
UL AWM Style	2463 (80 °C / 600 V)
Number of positions	8
Shielded	yes
Cable type	Highly flexible Ethernet CAT5e [94L]
Conductor structure	4x2xAWG24/7; SF/UTP
Conductor structure signal line	7x 0.20 mm (7x32)
AWG signal line	24
Conductor cross section	4x 2x 0.2 mm ²
Wire diameter incl. insulation	1.2 mm
External cable diameter	7.40 mm ±0.25 mm
Outer sheath, material	TPE
External sheath, color	turquoise
Conductor material	Tin-plated Cu litz wires
Material wire insulation	PE
Single wire, color	white/blue-blue, white/orange-orange, white/green-green, white/brown-brown
Twisted pairs	2 cores to the pair
Overall twist	4 pairs for core
Optical shield covering	75 %
Wave impedance	100 Ω ±15 Ω (at 100 MHz)
Cable impedance	100 Ω ±15 Ω (at 1 ... 100 MHz)
Nominal voltage, cable	600 V
Test voltage	2000 V
Dynamic load capacity (bending)	Max. bending cycles: 1000000, Bending radius: 10 x D, Traversing path: 0.23 m, Traversing rate: 1.5 m/s, Acceleration: 20.5 m/s ² Max. bending cycles: 10000000, Bending radius: 20 X D (126 cycles/min. at 20 °C)
Dynamic load capacity (torsion)	Torsion: 360 °/m (1 lb. load), Torsion cycles: 4800000, Torsional frequency: 71 cycles/min, Ambient temperature (operation): 20 °C
Near end crosstalk attenuation (NEXT)	50 dB (with 100 MHz (IEC 62153-4-9))
Return attenuation (RL)	20 dB (at 10 MHz (+6LOG)) 26 dB (at 20 MHz) 26 dB (at 100 MHz (-5LOG))
Flame resistance	VW-1

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Other resistance	Resistant to welding splashes (Abrasion and oil resistance)
	UV resistant (CMX outdoor)
Ambient temperature (operation)	-40 °C ... 80 °C (Cable, flexible installation)

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP65
	IP65
Ambient temperature (operation)	-25 °C ... 85 °C (M12 connector)

Standards and regulations

M12

Standard designation	M12 connector
Standards/specifications	IEC 61076-2-101

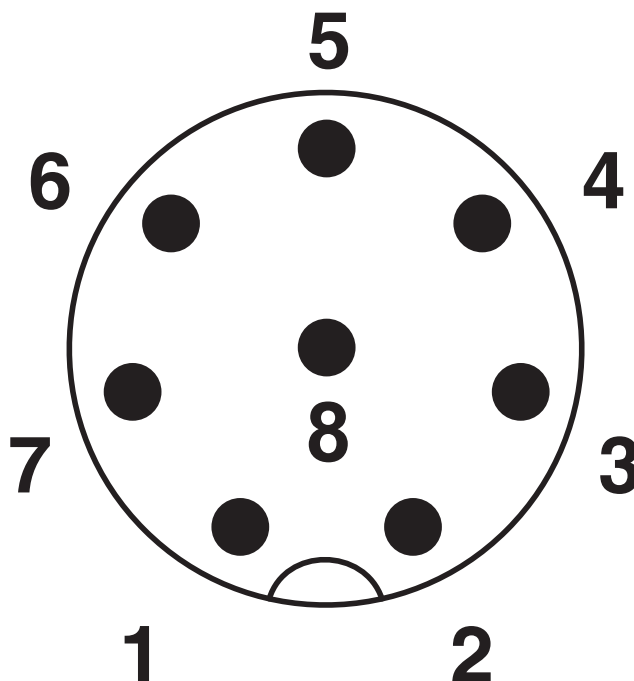
Drawings

Dimensional drawing



Plug, M12 x 1, straight, shielded

Schematic diagram

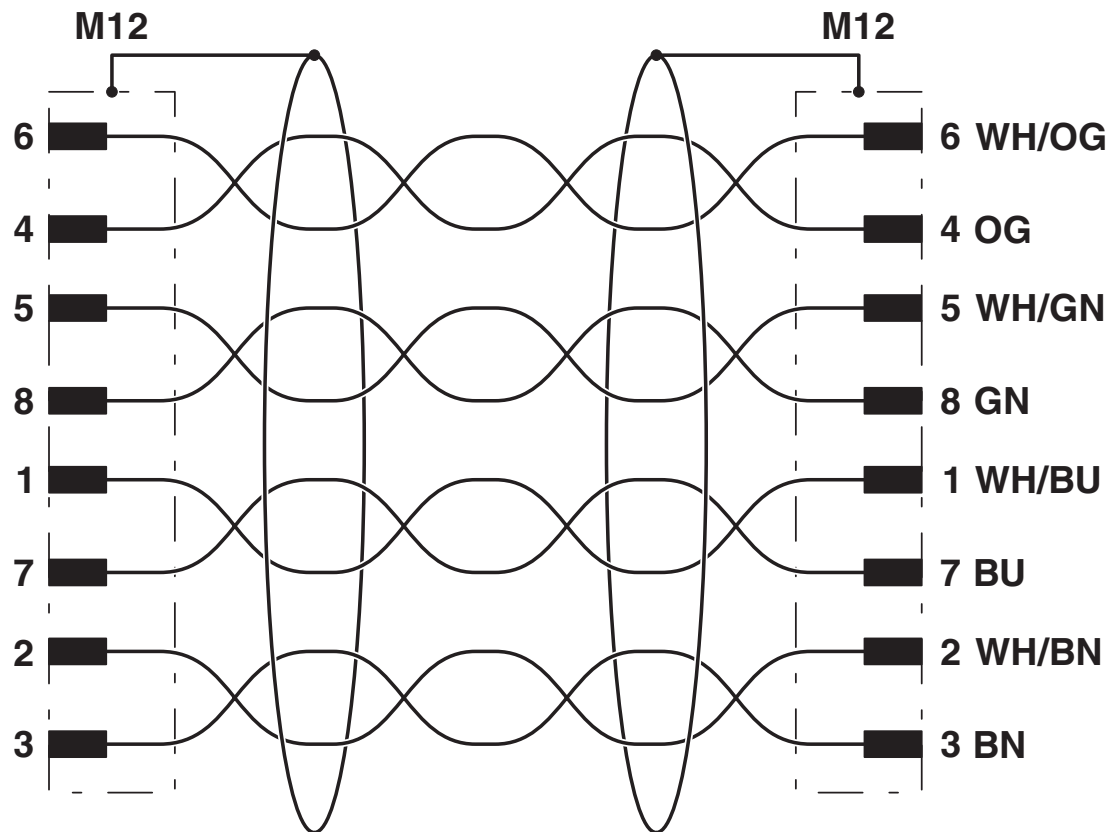


Pin assignment M12 plug, 8-pos., A-coded, view plug side

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Circuit diagram



Contact assignment of the M12 plugs

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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1201768>



UL Listed

Approval ID: FILE E 335024

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	60 V	1.5 A	-	-



cUL Listed

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	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
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cULus Listed

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Classifications

ECLASS

ECLASS-11.0	27060307
ECLASS-12.0	27060307
ECLASS-13.0	27060307

ETIM

ETIM 9.0	EC001855
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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	6(c)

China RoHS

Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

EU REACH SVHC

REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
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