

NBC-M12MSD/1,63-93E/M12MRDC4 - Bus system cable



1408343

<https://www.phoenixcontact.com/us/products/1408343>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



Assembled Ethernet cable, CAT5e, shielded, 2-pair, 26 AWG stranded (7-wire), RAL 5021 (water blue), straight M12 plug to angled M12 plug with C4-encoding SPEEDCON, line, length: 1.63 m

Commercial data

Item number	1408343
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	BF19
Product key	AF1CJI
GTIN	4046356812962
Weight per piece (including packing)	107 g
Weight per piece (excluding packing)	107 g
Customs tariff number	85444210
Country of origin	PL

NBC-M12MSD/1,63-93E/M12MRDC4 - Bus system cable



1408343

<https://www.phoenixcontact.com/us/products/1408343>

Technical data

Product properties

Product type	Data cable preassembled
Number of positions	4
No. of cable outlets	1
Coding	D

Interfaces

Bus system	Ethernet
Signal type/category	Ethernet CAT5, 100 Mbps

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 speed	100 Mbps

Connector

Connection 1

Type	Plug straight M12 SPEEDCON / IP67
Number of positions	4
Locking type	SPEEDCON
Coding type	D (Data)
Handle color	black
Material	CuZn (Contact)
	Ni/Au (Contact surface)
	PA (Contact carrier)
	TPU, hardly inflammable, self-extinguishing (Grip body)
	Zinc die-cast, nickel-plated (Screw connection)
Insertion/withdrawal cycles	≥ 100
Insulation resistance	≥ 100 MΩ
Degree of protection	IP67

Connection 2

Type	Plug angled M12 SPEEDCON / IP67
Locking type	SPEEDCON
Coding type	D (Data)
Handle color	black
	CuSn (Contact)

NBC-M12MSD/1,63-93E/M12MRDC4 - Bus system cable



1408343

<https://www.phoenixcontact.com/us/products/1408343>

Material	Ni/Au (Contact surface)
	PA (Contact carrier)
	TPU, hardly inflammable, self-extinguishing (Grip body)
	Zinc die-cast, nickel-plated (Screw connection)
Degree of protection	IP67

Cable/line

Cable length	1.63 m
--------------	--------

Ethernet [93E]

Cable weight	42 kg/km
Number of positions	4
Shielded	yes
Cable type	Ethernet [93E]
Conductor structure	2x2xAWG26/7 PIMF
Signal speed	0.72 c
Conductor structure signal line	7x 0.15 mm
AWG signal line	26
Conductor cross-section	2x 2x 0.14 mm ²
Wire diameter incl. insulation	≤ 1.05 mm
External cable diameter	6.70 mm
Outer sheath, material	PUR
External sheath, color	water blue RAL 5021
Conductor material	Bare Cu litz wires
Material wire insulation	Cell PE
Single wire, color	white/orange-orange, white/green-green
Twisted pairs	2 cores to the pair
Type of pair shielding	Aluminum-lined polyester foil
Overall twist	Two pairs with two fillers to the core
Max. conductor resistance	≤ 150 Ω/km
Insulation resistance	≥ 5 GΩ*km
Coupling resistance	5.00 mΩ/m (at 10 MHz)
Wave impedance	100 Ω ±5 % (at 100 MHz)
Working capacitance	42 pF
Nominal voltage, cable	max. 125 V
Test voltage	1000 V
Smallest bending radius, movable installation	34 mm
Tensile strength	30 N (for installation)
	10 N (in accordance with installation)
Shield attenuation	60.00 dB (up to 1000 MHz)
Halogen-free	complying with IEC 60754-1/2
Flame resistance	complying with IEC 60332-2-2
Concentration of fumes	in accordance with IEC 61034-1/2
Resistance to oil	in accordance with DIN EN 60811-2-1

NBC-M12MSD/1,63-93E/M12MRDC4 - Bus system cable



1408343

<https://www.phoenixcontact.com/us/products/1408343>

Other resistance	Microbe resistance as per VDE 0282 section 10
	Hydrolysis resistance as per DIN 53504
Special properties	Free of substances which would hinder coating with paint or varnish
Ambient temperature (operation)	-40 °C ... 70 °C (cable, fixed installation)
	-10 °C ... 50 °C (Cable, flexible installation)

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP65/IP67
Ambient temperature (operation) (male connector/female connector)	-25 °C ... 85 °C (M12 connector)

Standards and regulations

M12

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

NBC-M12MSD/1,63-93E/M12MRDC4 - Bus system cable

1408343

<https://www.phoenixcontact.com/us/products/1408343>

Drawings

Dimensional drawing



Plug, M12 x 1, straight, shielded

Schematic diagram



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

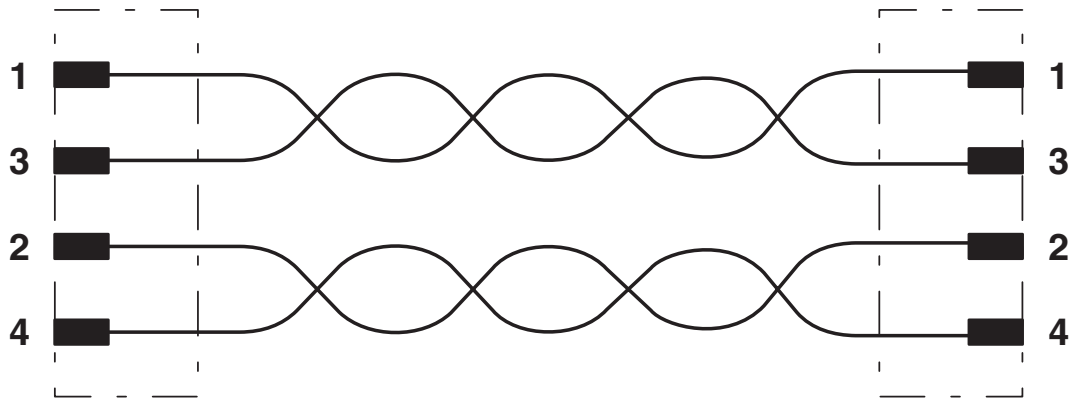
NBC-M12MSD/1,63-93E/M12MRDC4 - Bus system cable



1408343

<https://www.phoenixcontact.com/us/products/1408343>

Circuit diagram



Contact assignment of the M12 plugs

NBC-M12MSD/1,63-93E/M12MRDC4 - Bus system cable



1408343

<https://www.phoenixcontact.com/us/products/1408343>

Classifications

ECLASS

ECLASS-13.0	27060307
ECLASS-15.0	27060307

UNSPSC

UNSPSC 21.0	26121600
-------------	----------

NBC-M12MSD/1,63-93E/M12MRDC4 - Bus system cable



1408343

<https://www.phoenixcontact.com/us/products/1408343>

Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
---	--------------------

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%
-------------------------------------	----------------------------

Phoenix Contact 2026 © - all rights reserved
<https://www.phoenixcontact.com>

Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com