

NBC-M12MSD/ 0,5-93E/M12MSD CO - Network cable



1401599

<https://www.phoenixcontact.com/us/products/1401599>

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.



Network cable, Ethernet, 4-position, PUR halogen-free, water blue RAL 5021, shielded, Plug straight M12, coding: D, on Plug straight M12, coding: D, cable length: 0.5 m

Commercial data

Item number	1401599
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	BF04
Product key	BF1CJI
GTIN	4046356566667
Weight per piece (including packing)	60 g
Weight per piece (excluding packing)	59.2 g
Customs tariff number	85444210
Country of origin	PL

Technical data

Product properties

Product type	Data cable preassembled
Sensor type	Ethernet
Number of positions	4
Shielded	yes

Insulation characteristics

Overvoltage category	II
Degree of pollution	3

Interfaces

Bus system	Ethernet
Signal type/category	Ethernet

Electrical properties

Insulation resistance	$\geq 100 \text{ M}\Omega$
Nominal voltage U_N	48 V AC
	60 V DC
Nominal current I_N	4 A

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	≥ 100
-----------------------------	------------

Material specifications

Flammability rating according to UL 94	V0
Seal material	NBR
	NBR

Connector

Connection 1

Type	Plug straight M12
Coding type	D (Data)
Material	CuZn (Contact)
	Ni/Au (Contact surface)
	PA (Contact carriers)
	TPU, hardly inflammable, self-extinguishing (Grip)
	Zinc die-cast, nickel-plated (Screw connection)

Connection 2

Type	Plug straight M12
Coding type	D (Data)

NBC-M12MSD/ 0,5-93E/M12MSD CO - Network cable



1401599

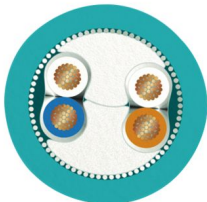
<https://www.phoenixcontact.com/us/products/1401599>

Material	CuZn (Contact)
	Ni/Au (Contact surface)
	PA (Contact carriers)
	TPU, hardly inflammable, self-extinguishing (Grip)
	Zinc die-cast, nickel-plated (Screw connection)

Cable/line

Cable length	0.5 m
--------------	-------

Ethernet [930]

Dimensional drawing	
Cable weight	54 kg/km
Number of positions	4
Shielded	yes
Cable type	Ethernet [930]
Signal runtime	46 ns/m
Signal speed	0.72 c
Conductor structure signal line	7x 0.20 mm
AWG signal line	24
Conductor cross section	0.25 mm²
Wire diameter incl. insulation	1.4 mm
External cable diameter	8.00 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-green, white-orange
Twisted pairs	2 cores to the pair
Type of pair shielding	Aluminum-lined polyester foil
Overall twist	2 cores with 2 fillers to the core
Optical shield covering	65 %
Max. conductor resistance	84 mΩ/m
Insulation resistance	5 GΩ*km
Wave impedance	100 Ω ±5 %
Working capacitance	42.5 pF
Nominal voltage, cable	125 V
Test voltage	1000 V

NBC-M12MSD/ 0,5-93E/M12MSD CO - Network cable



1401599

<https://www.phoenixcontact.com/us/products/1401599>

Smallest bending radius, fixed installation	min. 40 mm
Smallest bending radius, movable installation	min. 40 mm
Shield attenuation	60.00 dB (up to 1000 MHz)
Ambient temperature (operation)	-20 °C ... 70 °C (cable, fixed installation)
	0 °C ... 50 °C (Cable, flexible installation)

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP65
	IP67
	IP65/IP67/IP69K
Ambient temperature (operation)	-25 °C ... 90 °C (Plug / socket)
	-20 °C ... 70 °C (cable, fixed installation)
	0 °C ... 50 °C (Cable, flexible installation)

Phoenix Contact 2024 © - 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