

1401599

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

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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	AF1CJI
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



1401599

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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	≥ 100 MΩ
Nominal voltage U _N	48 V AC
	60 V DC
Nominal current I _N	4 A

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	≥ 100
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Material specifications

Flammability rating according to UL 94	V0
Seal material	NBR
	NBR

Connector

Connection 1

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

Connection 2

Connection 2		
	Туре	Plug straight M12
	Coding type	D (Data)



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Material	CuZn (Contact)
	Ni/Au (Contact surface)
	PA (Contact carriers)
	TPU, hardly inflammable, self-extinguishing (Grip body)
	Zinc die-cast, nickel-plated (Screw connection)
e/line	
Cable length	0.5 m
nernet [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 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
	400 0 15 0/
Wave impedance	100 Ω ±5 %
Wave impedance Working capacitance	42.5 pF



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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)

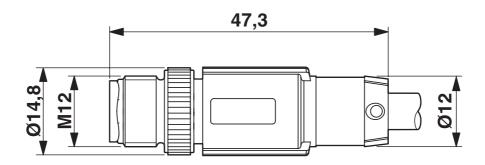


1401599

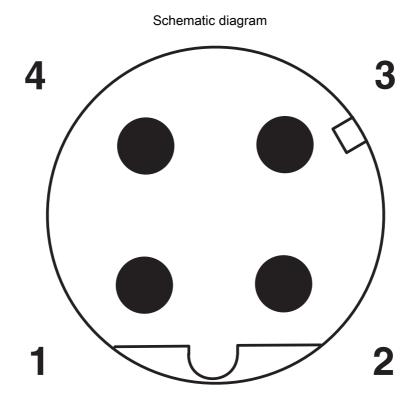
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Drawings

Dimensional drawing



Plug, M12 x 1, straight, shielded



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



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Classifications

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		A.7.7

	21.00		
	ECLASS-13.0	27060307	
ETIM			
	ETIM 9.0	EC001855	
UNSPSC			
	UNSPSC 21.0	26121600	



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Environmental product compliance

EU RoHS

20.10.10			
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%		

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