

1448616

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Network cable, Ethernet CAT5, 4-position, PUR halogen-free, water blue RAL 5021, shielded, Plug angled M12, coding: D, on free cable end, cable length: 5 m

Commercial data

Item number	1448616
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	BF04
Product key	AF1CJI
GTIN	4046356703000
Weight per piece (including packing)	232.8 g
Weight per piece (excluding packing)	232.8 g
Customs tariff number	85444290
Country of origin	PL



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Technical data

Product properties

Product type	Data cable preassembled		
Sensor type	Ethernet		
Number of positions	4		
No. of cable outlets	1		
Shielded	yes		
Coding	D		
Insulation characteristics			
Overvoltage category	II II		
Degree of pollution	3		

Interfaces

Bus system	Ethernet
Signal type/category	Ethernet CAT5 (IEC 11801:2002)

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 (Plug/socket in accordance with IEC 61076-2-101, cable technical data is to be observed)
Transmission medium	Copper
Transmission characteristics (category)	CAT5 (IEC 11801:2002)

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	≥ 100
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Material specifications

Flammability rating according to UL 94	V0
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Connector

Connection 1

Туре	Plug angled M12
Coding type	D (Data)
Material	CuZn (Contact)
	Ni/Au (Contact surface)
	TPU GF (Contact carrier)



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	TDU best to the second of the
	TPU, hardly inflammable, self-extinguishing (Grip body)
	Zinc die-cast, nickel-plated (Screw connection)
Connection 2	
Туре	free cable end
ble/line	
Cable length	5 m
Ethernet flexible CAT5, 2-pair [93E]	
Dimensional drawing	
UL AWM Style	21238 (80 °C / 600 V)
Number of positions	4
Shielded	yes
Cable type	Ethernet flexible CAT5, 2-pair [93E]
Conductor structure	2x2xAWG26/7, SF/UTP
AWG signal line	26
Conductor cross section	2x 2x 0.14 mm²
Wire diameter incl. insulation	0.95 mm ±0.05 mm
External cable diameter	6.40 mm ±0.2 mm
Outer sheath, material	PUR
External sheath, color	water blue RAL 5021
Conductor material	Bare Cu litz wires
Material wire insulation	Foamed PE
Single wire, color	white/orange-orange, white/green-green
Twisted pairs	2 cores to the pair
Overall twist	Two pairs with two fillers to the core
Optical shield covering	70 %
Insulation resistance	≥ 5 GΩ*km
Loop resistance	≤ 280.00 Ω/km
Wave impedance	100 Ω ±5 Ω (at 100 MHz)
Nominal voltage, cable	≤ 100 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	4 x D
Minimum bending radius, flexible installation	8 x D
Smallest bending radius, fixed installation	26 mm
Smallest bending radius, movable installation	51 mm



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Halogen-free	according to IEC 60754-1
Flame resistance	according to IEC 60332-1-2
	in accordance with UN ECE-R 118.03
	UL 1581, Section 1060 and UL 2556, Section 9.3 (FT1)
	UL 1581, Section 1100 and UL 2556, Section 9.1 (HFT/FT2)
Resistance to oil	in accordance with IEC 60811-404
Ambient temperature (operation)	-40 °C 80 °C (cable, fixed installation)
	-30 °C 70 °C (Cable, flexible installation)

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP65
	IP67
	IP65/IP67/IP69K
Ambient temperature (operation) (male connector/female connector)	-25 °C 90 °C (Plug / socket)

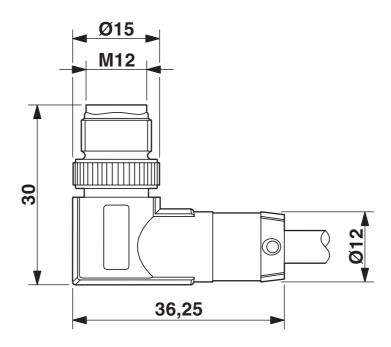


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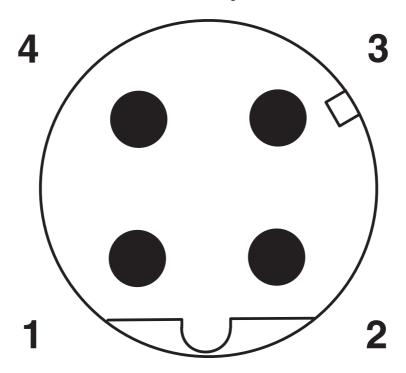
Drawings

Dimensional drawing



M12 x 1 male plug, angled, shielded

Schematic diagram



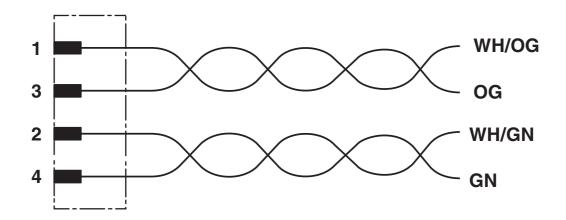
Pin assignment M12 male connector, 4-pos., D-coded, male side



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Circuit diagram



Contact assignment of the M12 plug



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Classifications

ECLASS

	ECLASS-13.0	27060307	
	ECLASS-15.0	27060307	
	TINA		
ETIM			
	ETIM 9.0	EC001855	
UNSPSC			
	UNSPSC 21.0	26121604	



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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%

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