

1407376

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Network cable, Ethernet CAT5 (100 Mbps), 4-position, PUR halogen-free, water blue RAL 5021, shielded (Advanced Shielding Technology), Plug straight M12, coding: D / IP67, on Plug straight M12, coding: D / IP67, cable length: 1 m

Commercial data

Item number	1407376
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF04
Product key	AF1CJI
GTIN	4046356775045
Weight per piece (including packing)	75 g
Weight per piece (excluding packing)	75 g
Customs tariff number	85444290
Country of origin	PL



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Technical data

Notes

General	Further products with variable cable type and variable cable length can be found in the accessories section

Product properties

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

Interfaces

Signal type/category	Ethernet CAT5 (IEC 11801), 100 Mbps
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Electrical properties

Nominal voltage U _N	48 V AC
	60 V DC
Nominal current I _N	4 A
Transmission medium	Copper
Transmission speed	100 Mbps

Connector

Connection 1

Dimensional drawing	Pin assignment M12 male connector, 4-pos., D-coded, male side
Туре	M12 Plug, straight, 4-position, shielded (Advanced Shielding Technology), Keying: D
Number of positions	4
Shielded	yes
Shielding	Advanced Shielding Technology
Signal type/category	Ethernet CAT5 (IEC 11801), 100 Mbps
Insertion/withdrawal cycles	≥ 100
Insulation resistance	≥ 100 MΩ
Overvoltage category	II
Degree of pollution	3
Tightening torque	0.4 Nm
Material Contact	CuSn



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Material Contact surface	Ni/Au
Material Contact carrier	PA 6.6
Material Screw connection	Die-cast zinc, nickel-plated
Material Grip body	TPU, hardly inflammable, self-extinguishing
Material Seal	FKM
Flammability rating according to UL 94	VO
Degree of protection	IP65
	IP67
Ambient temperature (operation)	-25 °C 85 °C
Standard designation	M12 connector
Standards/regulations	IEC 61076-2-101

Connection 2

Dimensional drawing	Pin assignment M12 male connector, 4-pos., D-coded, male side
Туре	M12 Plug, straight, 4-position, shielded (Advanced Shielding Technology), Keying: D
Number of positions	4
Shielded	yes
Shielding	Advanced Shielding Technology
Signal type/category	Ethernet CAT5 (IEC 11801), 100 Mbps
Insertion/withdrawal cycles	≥ 100
Insulation resistance	≥ 100 MΩ
Overvoltage category	II
Degree of pollution	3
Tightening torque	0.4 Nm
Material Contact	CuSn
Material Contact surface	Ni/Au
Material Contact carrier	PA 6.6
Material Screw connection	Die-cast zinc, nickel-plated
Material Grip body	TPU, hardly inflammable, self-extinguishing
Material Seal	FKM
Flammability rating according to UL 94	V0
Degree of protection	IP65
	IP67
Ambient temperature (operation)	-25 °C 85 °C
Standard designation	M12 connector
Standards/regulations	IEC 61076-2-101

Cable/line



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Cable length	1 m		
thernet 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		
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		



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Ambient temperature (operation)	-40 °C 80 °C (cable, fixed installation)
	-30 °C 70 °C (Cable, flexible installation)

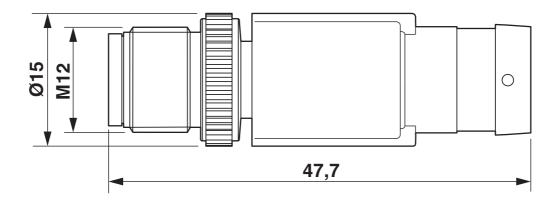


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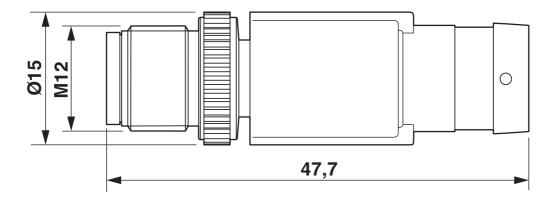
Drawings

Dimensional drawing



Plug, M12 x 1, straight, shielded

Dimensional drawing

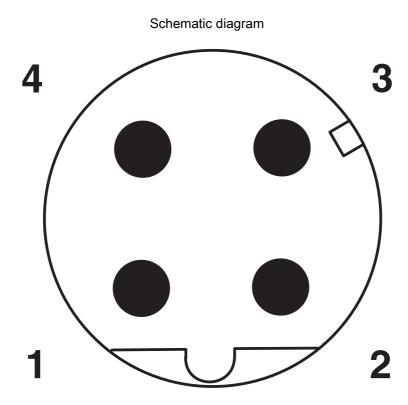


Plug, M12 x 1, straight, shielded



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

Circuit diagram 1 3 2 4

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/1407376

UL Listed Approval ID: FILE E 33	35024			
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
keine				
	30 V	4 A	-	-

cUL Listed Approval ID: FILE E	335024			
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
keine				
	30 V	4 A	-	-

COL	EAC-RoHS
CUL	Approval ID: RU D-DE.HB35.B.00387



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Classifications

ECLASS

	ECLASS-13.0	27060307		
	ECLASS-15.0	27060307		
ETIM				
LITIVI				
	ETIM 9.0	EC001855		
UNSPSC				
	UNSPSC 21.0	26121600		



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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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