

1476025

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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 Push Pull, coding: D / IP67, on Plug straight RJ45 / IP20, cable length: 5 m

Commercial data

Item number	1476025
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	AF1CJJ
Product key	AF1CJJ
GTIN	4063151888879
Weight per piece (including packing)	235.9 g
Weight per piece (excluding packing)	22.22 g
Country of origin	PL



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Technical data

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

Electrical properties

Nominal voltage U _N	48 V AC
	60 V DC
Nominal current I _N	1 A
Transmission medium	Copper

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), Push Pull, 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	Ш
Degree of pollution	3
Material Contact	CuSn
Material Contact surface	Ni/Au
Material Contact carrier	PK
Material Grip body	TPU, hardly inflammable, self-extinguishing
Material Seal	FKM
Flammability rating according to UL 94	V0



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IP65
IP67
-25 °C 85 °C
M12 connector
IEC 61076-2-010

Connection 2

Dimensional drawing



Connector pin assignment plug RJ45

Туре	RJ45 Plug, straight
Signal type/category	Ethernet CAT5 (IEC 11801), 100 Mbps
Insertion/withdrawal cycles	≥ 750
Insulation resistance	≥ 100 MΩ
Overvoltage category	1
Degree of pollution	2
Material Contact	CuSn
Material Contact surface	Ni/Au
Material Contact carrier	PC
Material Housing	PA
Color (Housing)	gray
Flammability rating according to UL 94	V2
Degree of protection	IP20
Ambient temperature (operation)	-25 °C 60 °C

Cable/line

Cable length	5 m
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Ethernet flexible CAT5, 2-pair [93E]

Dimensional drawing



Cable weight	42 kg/km
UL AWM Style	20963 (80°C/30 V)



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Wiring standards/regulations	Electrical requirements EN 50288-2-2		
Number of positions	4		
Shielded	yes		
Cable type	Ethernet flexible CAT5, 2-pair [93E]		
Conductor structure	2x2xAWG26/7, SF/UTP		
Signal runtime	5.3 ns/m		
Conductor structure signal line	7x 0.16 mm		
AWG signal line	26		
Conductor cross section	2x 2x 0.14 mm²		
Wire diameter incl. insulation	0.98 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		
Thickness, outer sheath	1.20 mm		
Twisted pairs	2 cores to the pair		
Overall twist	Two pairs with two fillers to the core		
Optical shield covering	70 %		
Insulation resistance	≥ 500 MΩ*km		
Coupling resistance	≤ 100.00 mΩ/m (at 10 MHz)		
Loop resistance	≤ 290.00 Ω/km		
Wave impedance	100 Ω ±5 Ω (at 100 MHz)		
Cable capacity	approx. 45 nF/km (at 1 kHz)		
Nominal voltage, cable	≤ 100 V (Peak value, not for high-power applications)		
Test voltage Core/Core	700 V (50 Hz, 1 min.)		
Test voltage Core/Shield	700.00 V (50 Hz, 1 min.)		
Current carrying capacity of cable	2.00 A (according to DIN VDE 0891-1)		
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	52 mm		
Tensile strength	≤ 80 N		
Near end crosstalk attenuation (NEXT)	65.3 dB (with 1 MHz)		
	56.3 dB (at 4 MHz)		
	50.3 dB (at 10 MHz)		
	47.2 dB (at 16 MHz)		
	45.8 dB (at 20 MHz)		
	42.9 dB (at 31.25 MHz)		
	38.4 dB (at 62.5 MHz)		
	35.3 dB (at 100 MHz)		
Power-summated near end crosstalk attenuation (PSNEXT)	62.3 dB (with 1 MHz)		
	53.3 dB (at 4 MHz)		



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	47.3 dB (at 10 MHz)
	44.2 dB (at 16 MHz)
	42.8 dB (at 20 MHz)
	39.9 dB (at 31.25 MHz)
	35.4 dB (at 62.5 MHz)
	32.3 dB (at 100 MHz)
Return attenuation (RL)	23 dB (at 4 MHz)
	24.1 dB (at 8 MHz)
	25 dB (at 10 MHz)
	25 dB (at 16 MHz)
	25 dB (at 20 MHz)
	23.6 dB (at 31.25 MHz)
	21.5 dB (at 62.5 MHz)
	20.1 dB (at 100 MHz)
Shield attenuation	3.2 dB (with 1 MHz)
	6 dB (at 4 MHz)
	9.5 dB (at 10 MHz)
	12.1 dB (at 16 MHz)
	13.6 dB (at 20 MHz)
	17.1 dB (at 31.25 MHz)
	24.8 dB (at 62.5 MHz)
	32 dB (at 100 MHz)
Halogen-free	according to IEC 60754-1
Flame resistance	according to IEC 60332-1-2
	in acc. to UL VW1
	in accordance with UN ECE-R 118.03
Resistance to oil	in accordance with EN 60811-2-1
Ambient temperature (operation)	-40 °C 80 °C (cable, fixed installation)
	-20 °C 80 °C (Cable, flexible installation)
Ambient temperature (installation)	-20 °C 80 °C

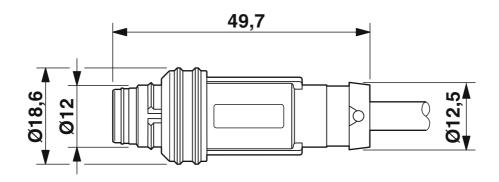


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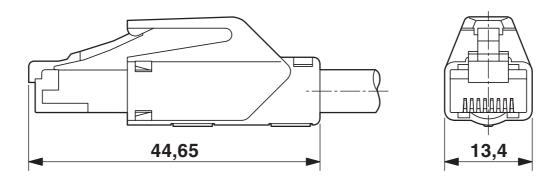
Drawings

Dimensional drawing



M12 push-pull male connector, straight

Dimensional drawing

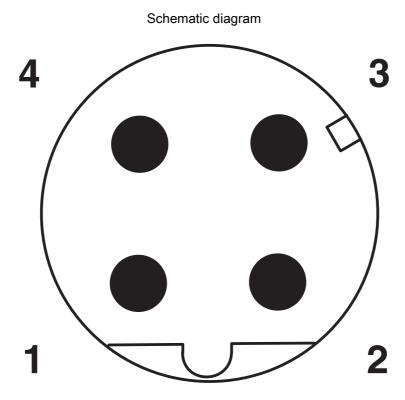


RJ45 connector, IP20



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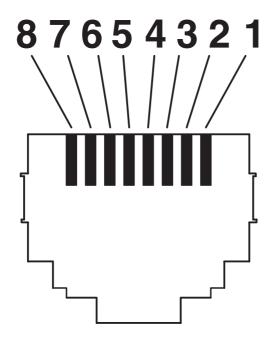
Pin assignment M12 male connector, 4-pos., D-coded, male side



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Schematic diagram



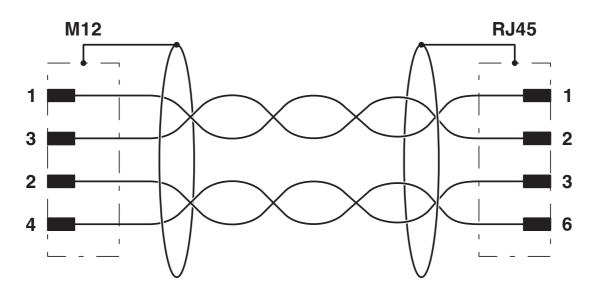
Connector pin assignment plug RJ45



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Circuit diagram



Contact assignment of the M12 and RJ45 plug



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Approvals

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•	cULus Listed Approval ID: E335024				
		Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
		30 V	0.5 A	-	-



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Classifications

ETIM 9.0

ECLASS

	ECLASS-13.0	27060307
ETIM		

EC001855



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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%		
EF3.0 Climate Change			
CO2e kg	1.466 kg CO2e		

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