

1407438

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Network cable, Ethernet CAT5 (1 Gbps), 8-position, PUR halogen-free, water blue RAL 5021, shielded, Plug straight M12 SPEEDCON, coding: A / IP67, on Plug straight M12 SPEEDCON, coding: A / IP67, cable length: 10 m

Commercial data

Item number	1407438
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF04
Product key	BF1CMI
Catalog page	Page 401 (C-2-2019)
GTIN	4046356775595
Weight per piece (including packing)	501.3 g
Weight per piece (excluding packing)	490.9 g
Customs tariff number	85444210
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	8
No. of cable outlets	1
Shielded	yes
Coding	A

Interfaces

Bus system	Ethernet
Signal type/category	Ethernet CAT5 (based on IEC 11801), 1 Gbps

Signaling

Status display	No
Status display present	No

Electrical properties

Nominal voltage U _N	48 V AC
	60 V DC
Nominal current I _N	2 A
Transmission medium	Copper
Transmission characteristics (category)	CAT5 (IEC 11801:2002)

Connector

Connection 1

Туре	Plug straight M12 SPEEDCON / IP67
Number of positions	8
Locking type	SPEEDCON
Coding type	A (Standard)
Handle color	black
Material	CuZn (Contact)
	Ni/Au (Contact surface)
	TPU GF (Contact carriers)
	TPU, hardly inflammable, self-extinguishing (Grip)
	Zinc die-cast, nickel-plated (Screw connection)
Insertion/withdrawal cycles	≥ 100
Insulation resistance	≥ 100 MΩ



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Tightening torque	0.4 Nm
Degree of protection	IP67
Ambient temperature (operation)	-25 °C 90 °C
Connection 2	
Туре	Plug straight M12 SPEEDCON / IP67
Number of positions	8

Number of positions	8
Locking type	SPEEDCON
Coding type	A (Standard)
Handle color	black
Material	CuZn (Contact)
	Ni/Au (Contact surface)
	TPU GF (Contact carriers)
	TPU, hardly inflammable, self-extinguishing (Grip)
	Zinc die-cast, nickel-plated (Screw connection)
Insertion/withdrawal cycles	≥ 100
Insulation resistance	≥ 100 MΩ
Tightening torque	0.4 Nm
Degree of protection	IP67
Ambient temperature (operation)	-25 °C 90 °C

Cable/line

Cable length	10 m

Ethernet flexible CAT5, 4-pair [94B]

Dimensional drawing



Cable weight 47 kg/km UL AWM Style 20963 (80°C/30 V) Number of positions 8 Shielded yes Cable type Ethernet flexible CAT5, 4-pair [94B] Conductor structure 4x2xAWG26/7, SF/UTP Signal runtime 5.3 ns/m Conductor structure signal line 7x 0.16 mm AWG signal line 26 Conductor cross section 4x 2x 0.14 mm² Wire diameter incl. insulation 0.96 mm		
Number of positions8ShieldedyesCable typeEthernet flexible CAT5, 4-pair [94B]Conductor structure4x2xAWG26/7, SF/UTPSignal runtime5.3 ns/mConductor structure signal line7x 0.16 mmAWG signal line26Conductor cross section4x 2x 0.14 mm²Wire diameter incl. insulation0.96 mm	Cable weight	47 kg/km
Shielded yes Cable type Ethernet flexible CAT5, 4-pair [94B] Conductor structure 4x2xAWG26/7, SF/UTP Signal runtime 5.3 ns/m Conductor structure signal line 7x 0.16 mm AWG signal line 26 Conductor cross section 4x 2x 0.14 mm² Wire diameter incl. insulation 0.96 mm	UL AWM Style	20963 (80°C/30 V)
Cable type Ethernet flexible CAT5, 4-pair [94B] Conductor structure 4x2xAWG26/7, SF/UTP Signal runtime 5.3 ns/m Conductor structure signal line 7x 0.16 mm AWG signal line 26 Conductor cross section 4x 2x 0.14 mm² Wire diameter incl. insulation 0.96 mm	Number of positions	8
Conductor structure 4x2xAWG26/7, SF/UTP Signal runtime 5.3 ns/m Conductor structure signal line 7x 0.16 mm AWG signal line 26 Conductor cross section 4x 2x 0.14 mm² Wire diameter incl. insulation 0.96 mm	Shielded	yes
Signal runtime 5.3 ns/m Conductor structure signal line 7x 0.16 mm AWG signal line 26 Conductor cross section 4x 2x 0.14 mm² Wire diameter incl. insulation 0.96 mm	Cable type	Ethernet flexible CAT5, 4-pair [94B]
Conductor structure signal line 7x 0.16 mm AWG signal line 26 Conductor cross section 4x 2x 0.14 mm² Wire diameter incl. insulation 0.96 mm	Conductor structure	4x2xAWG26/7, SF/UTP
AWG signal line 26 Conductor cross section 4x 2x 0.14 mm² Wire diameter incl. insulation 0.96 mm	Signal runtime	5.3 ns/m
Conductor cross section 4x 2x 0.14 mm ² Wire diameter incl. insulation 0.96 mm	Conductor structure signal line	7x 0.16 mm
Wire diameter incl. insulation 0.96 mm	AWG signal line	26
	Conductor cross section	4x 2x 0.14 mm²
External cable diameter 6.40 mm ±0.2 mm	Wire diameter incl. insulation	0.96 mm
External capic diameter 0.40 mm 20.2 mm	External cable diameter	6.40 mm ±0.2 mm



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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/blue-blue, white/orange-orange, white/green-green, white/brown-brown
Thickness, outer sheath	1.05 mm
rwisted pairs	2 cores to the pair
Overall twist	4 pairs for core
Optical shield covering	70 %
nsulation resistance	≥ 5 GΩ*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	48 nF/km (at 1 kHz)
Nominal voltage, cable	≤ 100 V
Fest voltage Core/Core	700 V (50 Hz, 1 min.)
Test voltage Core/Shield	700.00 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	52 mm
Tensile strength	≤ 100 N
Near end crosstalk attenuation (NEXT)	71.3 dB (with 1 MHz)
	62.3 dB (at 4 MHz)
	56.3 dB (at 10 MHz)
	53.2 dB (at 16 MHz)
	51.8 dB (at 20 MHz)
	48.9 dB (at 31.25 MHz)
	44.4 dB (at 62.5 MHz)
	41.3 dB (at 100 MHz)
Power-summated near end crosstalk attenuation (PSNEXT)	62.3 dB (with 1 MHz)
	53.3 dB (at 4 MHz)
	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)



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	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
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

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP65
	IP67
	IP65/IP67

Standards and regulations

M12

Standard designation	M12 connector
Standards/specifications	IEC 61076-2-101

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