

1402351

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Assembled Ethernet cable, shielded, 4-pair, AWG 26 stranded (7-wire), RAL 5021 (sea blue), M12 plug to M12 socket, line, length 2.5 m

### Commercial data

Item number	1402351
Packing unit	1 pc
Minimum order quantity	50 pc
Product key	AF1CMI
GTIN	4046356606547
Weight per piece (including packing)	149.7 g
Weight per piece (excluding packing)	149.7 g
Country of origin	PL



1402351

https://www.phoenixcontact.com/us/products/1402351

### Technical data

### Product properties

Product type	Data cable preassembled
Number of positions	8
No. of cable outlets	1
Shielded	yes
Coding	A
Insulation characteristics	

#### Insulation characteristics

Overvoltage category	II
Degree of pollution	3

### Signaling

Status display	no
Status display present	no

### Electrical properties

Insulation resistance	≥ 100 MΩ
Nominal voltage U <sub>N</sub>	30 V AC
	30 V DC
Nominal current I <sub>N</sub>	2 A

#### Material specifications

Flammability rating according to UL 94	НВ
Seal material	NBR
Material of grip body	TPU, hardly inflammable, self-extinguishing
Contact material	CuZn
Contact surface material	Ni/Au
Contact carrier material	TPU GF
Material for screw connection	Zinc die-cast, nickel-plated

#### Connector

#### Connection 1

Туре	Plug straight M12
Number of positions	8
Coding type	A (Standard)

#### Connection 2

Commodian E	
Туре	Socket straight M12
Number of positions	8
Coding type	A (Standard)

#### Cable/line



1402351

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Cable length	2.5 m
nernet 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
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/blue-blue, white/orange-orange, white/green-green, white/brown-brown
Thickness, outer sheath	1.05 mm
Twisted pairs	2 cores to the pair
Overall twist	4 pairs for core
Optical shield covering	70 %
Insulation 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
Test 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



1402351

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lear end crosstalk attenuation (NEXT)	≤ 100 N  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)  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)
lower-summated near end crosstalk attenuation (PSNEXT)	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) 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)
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lower-summated near end crosstalk attenuation (PSNEXT)	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)  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)
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lower-summated near end crosstalk attenuation (PSNEXT)	44.4 dB (at 62.5 MHz) 41.3 dB (at 100 MHz) 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)
lower-summated near end crosstalk attenuation (PSNEXT)	41.3 dB (at 100 MHz) 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)
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	32.3 dB (at 100 MHz)
leturn 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)
	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)
	according to IEC 60754-1
	according to IEC 60332-1-2
	in accordance with EN 60811-2-1
	-40 C ou C (cable, lixed installation)
mbient temperature (installation)	-40 °C 80 °C (cable, fixed installation) -20 °C 80 °C (Cable, flexible installation)

### Environmental and real-life conditions

Ambient conditions



1402351

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Degree of protection	IP65
	IP67
	IP68
Ambient temperature (operation)	-25 °C 90 °C (Plug / socket)
	-40 °C 70 °C (cable, fixed installation)
	-10 °C 50 °C (Cable, flexible installation)

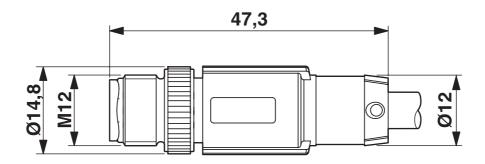


1402351

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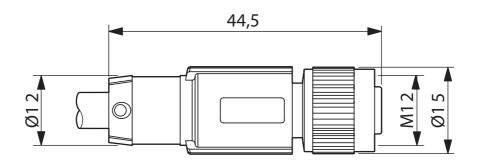
## Drawings

### Dimensional drawing



Plug, M12 x 1, straight, shielded

### Dimensional drawing

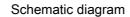


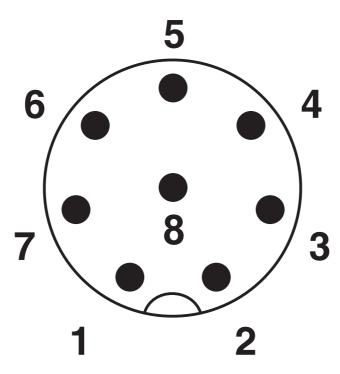
M12 x 1 socket, straight, shielded



1402351

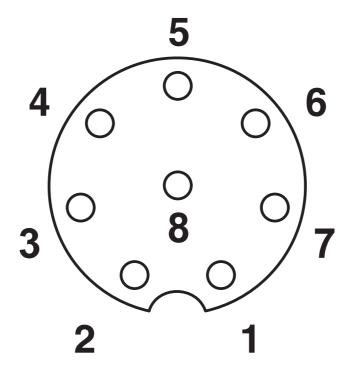
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Pin assignment M12 plug, 8-pos., view plug side

Schematic diagram



Pin assignment M12 socket, 8-pos., A-coded, view female side



1402351

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### Classifications

#### **ECLASS**

ECLASS-13.0	27060307
ECLASS-15.0	27060307

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