

1407500

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Network cable, PROFINET CAT5 (100 Mbps), EtherCAT® CAT5 (100 Mbps), 4-position, PVC/PVC, green RAL 6018, shielded (Advanced Shielding Technology), Plug straight M12, coding: D / IP67, on Plug straight RJ45 / IP20, cable length: 2 m  $\,$ 

### Commercial data

Item number	1407500
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	AF1CJN
Product key	AF1CJN
Catalog page	Page 397 (C-2-2019)
GTIN	4046356778107
Weight per piece (including packing)	148 g
Weight per piece (excluding packing)	148 g
Customs tariff number	85444290
Country of origin	PL



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### Technical data

#### Notes

General	This product corresponds to the PROFINET Cabling and Interconnection Technology Guideline for PROFINET regulations, version 2.00, order no: 2.252, Chapter 10.1 Cord Sets for Balanced Cabling
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	PROFINET	
Number of positions	4	
Shielded	yes	

### Interfaces

Signal type/category	PROFINET CAT5 (IEC 11801), 100 Mbps	
	EtherCAT® CAT5 (IEC 11801), 100 Mbps	

### Electrical properties

Nominal voltage U <sub>N</sub>	48 V AC
	60 V DC
Nominal current I <sub>N</sub>	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), Keying: D	
Number of positions	4	
Shielded	yes	
Shielding	Advanced Shielding Technology	
Signal type/category	EtherCAT® CAT5 (IEC 11801), 100 Mbps	
	PROFINET CAT5 (IEC 11801)	
Insertion/withdrawal cycles	≥ 100	
Insulation resistance	≥ 100 MΩ	



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П		
3		
CuSn		
PA 6.6		
Die-cast zinc, nickel-plated		
TPU, hardly inflammable, self-extinguishing		
FKM		
V0		
IP65		
IEC 61076-2-101		

### Connection 2

Dimensional drawing	87654321  Connector pin assignment plug RJ45	
Туре	RJ45, straight	
Signal type/category	PROFINET CAT5 (IEC 11801), 100 Mbps	
	EtherCAT® CAT5 (IEC 11801)	
Insertion/withdrawal cycles	≥ 750	
Insulation resistance	≥ 100 MΩ	
Overvoltage category	I	
Degree of pollution	2	
Material Contact	CuSn	
Material Contact surface	Ni/Au	
Material Contact carrier	PA	
Material Housing	PA	
Color (Housing)	black	
Flammability rating according to UL 94	V2	
Degree of protection	IP20	
Ambient temperature (operation)	-25 °C 80 °C	

### Cable/line

Cable length	2 m



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#### PROFINET PVC stranded CAT5 [93B]

21695 (80 °C / 600 V)		
4		
yes		
PROFINET PVC stranded CAT5 [93B]		
1x4xAWG22/7, SF/TQ		
22		
4x 0.34 mm²		
1.5 mm ±0.1 mm		
6.50 mm ±0.2 mm		
PVC		
green RAL 6018		
Tin-plated Cu litz wires		
PE		
white, yellow, blue, orange		
Star quad		
85 %		
≥ 5 GΩ*km		
≤ 120.00 Ω/km		
100 Ω ±5 Ω (at 100 MHz)		
≤ 600 V		
2000 V ((50 Hz/1 min))		
2000.00 V ((50 Hz/1 min))		
4 x D		
8 x D		
UL 1581, Section 1060 and UL 2556, Section 9.3 (FT1)		
UL 1685 (CSA FT 4)		
UL 1581, Section 1100 and UL 2556, Section 9.1 (HFT/FT2)		
OIL RES I according to UL 2256		
UV resistant (according to UL 1581, Section 1200)		
-40 °C 80 °C (cable, fixed installation)		
-10 °C 70 °C (Cable, flexible installation)		

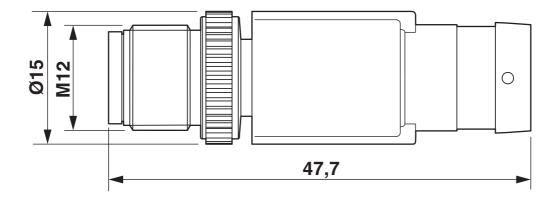


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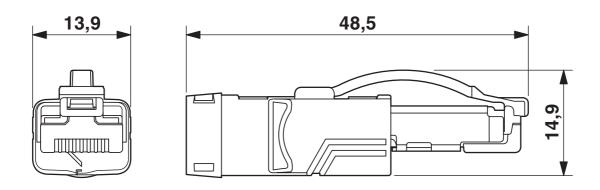
## Drawings

### Dimensional drawing



Plug, M12 x 1, straight, shielded

### Dimensional drawing

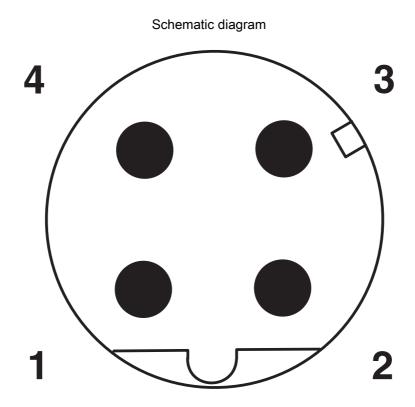


RJ45 connector, IP20



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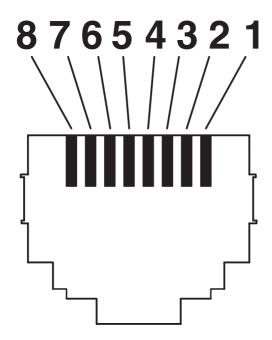
Pin assignment M12 male connector, 4-pos., D-coded, male side



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Schematic diagram



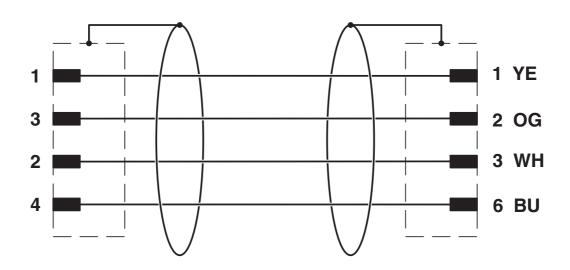
Connector pin assignment plug RJ45



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### Circuit diagram



Contact assignment of the M12 and RJ45 plug



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### **Approvals**

To download certificates, visit the product detail page: https://www.phoenixcontact.com/au/products/1407500

<u> </u>	<b>UL Listed</b> Approval ID: FILE E 335024				
		Nominal voltage U <sub>N</sub>	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
		60 V	0.5 A	-	-

• <u>®</u>	<b>cUL Listed</b> Approval ID: FILE E 33502	24			
		Nominal voltage $U_N$	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
		60 V	0.5 A	-	-

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



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## Classifications

<b>ECLAS</b>	S
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	ECLASS-13.0	27060307	
ETIM			
	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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