

1436026

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Bus system cable, CANopen®, DeviceNet[™], 5-position, PUR halogen-free, red lilac RAL 4001, shielded, Socket straight M12 SPEEDCON, coding: A, on Socket straight M12 SPEEDCON, coding: A and Plug straight M12 SPEEDCON, coding: A, cable length: 0.5 m, all connectors unshielded, Shield connected to pin 1

Commercial data

Item number	1436026
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF10
Product key	AF1GAD
Catalog page	Page 434 (C-2-2019)
GTIN	4046356432276
Weight per piece (including packing)	116 g
Weight per piece (excluding packing)	113 g
Customs tariff number	85444290
Country of origin	PL



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Technical data

Product properties

Product type	Data cable preassembled
Application	Standard
Sensor type	CANopen®
Number of positions	5
No. of cable outlets	1
Shielded	no
Coding	A

Insulation characteristics

Overvoltage category	II
Degree of pollution	3

Interfaces

Bus system	CANopen®/DeviceNet™
Signal type/category	CANopen®
	DeviceNet™

Signaling

Status display	no
Status display present	no

Electrical properties

Insulation resistance	≥ 100 MΩ
Nominal voltage U _N	48 V AC
	60 V DC
Nominal current I _N	4 A
Transmission medium	Copper

Material specifications

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

Dimensions



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Dimensional drawing	47,3
Center distance	21 mm

Connection data

Pin assignment

9	
Contact Color (signal designation) Contact (optional)	1 (Distributor) SR (shield) 1 (Plug) 1 (Socket)
	2 (Distributor) RD (V+) 2 (Plug) 2 (Socket)
	3 (Distributor) BK (V-) 3 (Plug) 3 (Socket)
	4 (Distributor) WH (CAN_H) 4 (Plug) 4 (Socket)
	5 (Distributor) BU (CAN_L) 5 (Plug) 5 (Socket)

Connector

Connection 1

Туре	Socket straight M12 SPEEDCON
Number of positions	5
Locking type	SPEEDCON
Coding type	A (Standard)
Ambient temperature (operation)	-25 °C 90 °C

Connection 2

Туре	Socket straight M12 SPEEDCON
Number of positions	5
Locking type	SPEEDCON
Coding type	A (Standard)
Ambient temperature (operation)	-25 °C 90 °C

Connection 3

Туре	Plug straight M12 SPEEDCON
Number of positions	5
Locking type	SPEEDCON
Coding type	A (Standard)
Ambient temperature (operation)	-25 °C 90 °C

Cable/line

Cable length	0.5 m	
CANopen®/DeviceNet™, PUR, violet [920]		



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Dimensional drawing	
UL AWM Style	21198 (80°C/300 V)
Number of positions	4
Shielded	yes
Cable type	CANopen®/DeviceNet™, PUR, violet [920]
Conductor structure	2xAWG24/19+2xAWG22/19
AWG signal line	24
AWG power supply	22
Conductor cross section	2x 0.25 mm² (Data cable)
	2x 0.34 mm² (Power supply)
	1x 0.34 mm² (Drain wire)
Wire diameter incl. insulation	1.95 mm ±0.05 mm (Data cable)
	1.4 mm ±0.05 mm (Power supply)
External cable diameter	6.70 mm ±0.3 mm
Outer sheath, material	PUR
External sheath, color	red lilac RAL 4001
Conductor material	Tin-plated Cu litz wires
Material wire insulation	Foamed PE (Data cable)
	PE (Power supply)
Single wire, color	red-black, blue-white
Twisted pairs	2 cores to the pair
Overall twist	2 pairs around a drain wire in the center to the core
Optical shield covering	80 %
Insulation resistance	≥ 5 GΩ*km (Data cable)
	≥ 5 GΩ*km (Power supply)
Wave impedance	120 Ω ±10 % (with 1 MHz)
Nominal voltage, cable	≤ 300 V (Peak value, not for high-power applications)
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
Dynamic load capacity (bending)	Max. bending cycles: 5000000, Bending radius: 70 mm, Bending radius: 15 x D, Traversing path: 4.5 m, Traversing rate: 3 m/s, Acceleration: 3 m/s², Ambient temperature: -20 °C 60 °C
Shield attenuation	≤ 22.9 dB/km (with 1 MHz)
	≤ 16.4 dB/km (At 500 kHz)
	≤ 9.5 dB/km (At 125 kHz)



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Halogen-free	in accordance with DIN VDE 0472 part 815	
	according to IEC 60754-1	
Flame resistance	UL 1581, Section 1060 and UL 2556, Section 9.3 (FT1)	
	UL 1581, Section 1100 and UL 2556, Section 9.1 (HFT/FT2)	
	IEC 60332-1-2	
	in accordance with ISO 6722-1 5.22 (UN ECE-R 118.01)	
Ambient temperature (operation)	-40 °C 80 °C (cable, fixed installation)	
	-30 °C 70 °C (Cable, flexible installation)	
	-20 °C 60 °C (for installation)	
	-20 °C 60 °C (cable, drag chain applications)	

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP65
	IP67

Standards and regulations

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

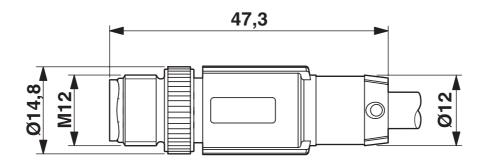


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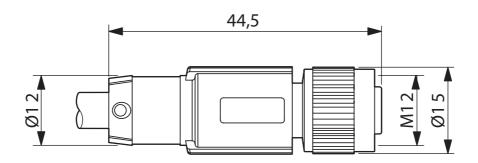
Drawings

Dimensional drawing



M12 SPEEDCON plug, straight

Dimensional drawing



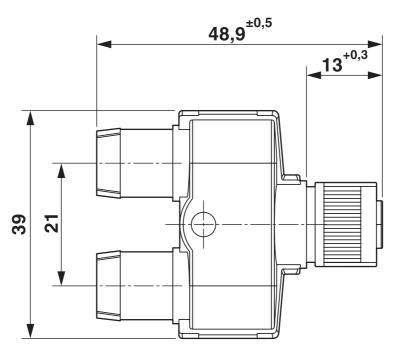
M12-SPEEDCON socket, straight



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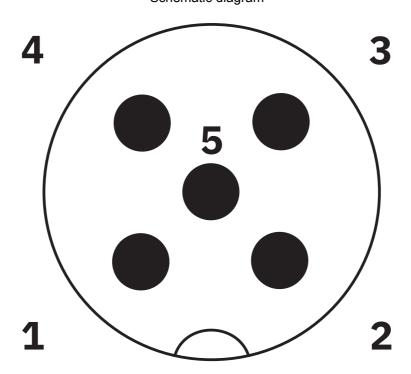
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Dimensional drawing



M12-SPEEDCON socket, Y-distributor

Schematic diagram

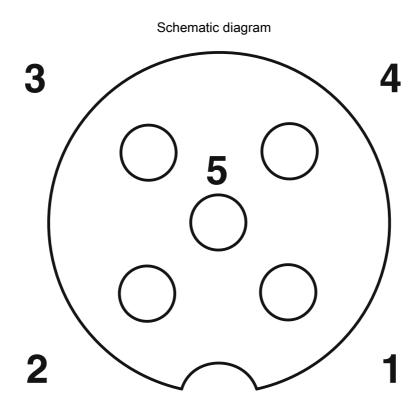


Pin assignment M12 male connector, 5-pos., A-coded, male side

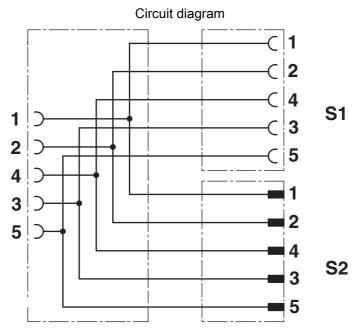


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Pin assignment M12 socket, 5-pos., A-coded, socket side view



Contact assignment of the M12 socket and the M12 plug



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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1436026

UL Listed Approval ID: FILE E 221474					
		Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
		125 V	4 A	-	-

cUL Listed Approval ID: FILE E 221474					
		Nominal voltage U_N	Nominal current I _N	Cross section AWG	Cross section mm ²
		125 V	4 A	-	-

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



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Classifications

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	ECLASS-13.0	27060307
E ⁻	ГІМ	
	ETIM 9.0	EC001855
UI	NSPSC	
	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%
EF3.0 Climate Change	
CO2e kg	0.977 kg CO2e

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