

1436107

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Bus system cable, CANopen[®], DeviceNet[™], 5-position, PUR halogen-free, red lilac RAL 4001, shielded (Tinned copper braided shield), Plug straight M12 SPEEDCON, coding: A, on free cable end and free cable end, cable length: 10 m, Connector unshielded, Shield connected to pin 1

Commercial data

Item number	1436107
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF10
Product key	BF1GAD
Catalog page	Page 434 (C-2-2019)
GTIN	4046356432351
Weight per piece (including packing)	1,152.59 g
Weight per piece (excluding packing)	1,143.64 g
Customs tariff number	85444290
Country of origin	PL



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Technical data

Product properties

Application	Standard
Consortuno	
Sensor type	CANopen [®]
Number of positions	5
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

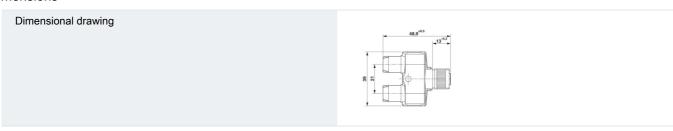
Electrical properties

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	
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





1436107

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Center distance	21 mm
Connection data	
Pin assignment Contact Color (signal designation) Contact (optional)	1 (Distributor) SR (shield)
Contact Color (signal designation) Contact (optional)	2 (Distributor) RD (V+)
	3 (Distributor) BK (V-)
	4 (Distributor) WH (CAN_H)
	5 (Distributor) BU (CAN_L)
	0 (2.00.000.7) 2.0 (0.00.2.7)
Connector	
Connection 1	
Туре	Plug straight M12 SPEEDCON
Number of positions	5
Locking type	SPEEDCON
Coding type	A (Standard)
Ambient temperature (operation)	-25 °C 90 °C
Connection 2	
Туре	free cable end
Connection 3	
Type	free cable end
Cable/line	
Cable length	10 m
CANopen [®] /DeviceNet™, PUR, violet [920]	
Dimensional drawing	
Cable weight	90 kg/km
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
Conductor structure signal line	19x 0.13 mm
AWG signal line	24



1436107

https://www.phoenixcontact.com/us/products/1436107

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	
Type of pair shielding	Plastic-coated aluminum foil, aluminum side outside	
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)	
Loop resistance	≤ 181.80 Ω/km (Data cable)	
	≤ 114.80 Ω/km (Power supply)	
Vave impedance	120 Ω ±10 % (with 1 MHz)	
Cable capacity	nom. 40 nF/km (Data cable)	
Nominal voltage, cable	≤ 300 V (Peak value, not for high-power application	
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	5 x D	
Minimum bending radius, flexible installation	10 x D	
Smallest bending radius, fixed installation	34 mm	
Smallest bending radius, movable installation	67 mm	
Max. bending cycles	5000000	
Shield attenuation	≤ 22.9 dB/km (with 1 MHz)	
	≤ 16.4 dB/km (At 500 kHz)	
	≤ 9.5 dB/km (At 125 kHz)	
Halogen-free	in accordance with DIN VDE 0472 part 815	
	according to IEC 60754-1	
Flame resistance	IEC 60332-1-2	
	in accordance with ISO 6722-1 5.22 (UN ECE-R 118.01)	
Other resistance	Low adhesion	
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



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Ambient conditions

Degree of protection	IP65
	IP67

Standards and regulations

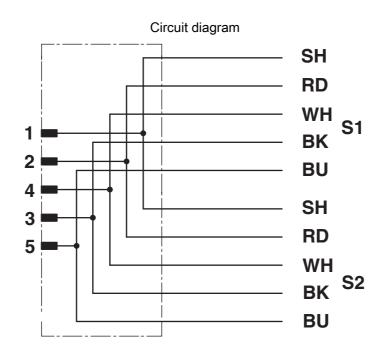
Standard designation	M12 connector	
Standards/specifications	IEC 61076-2-101	



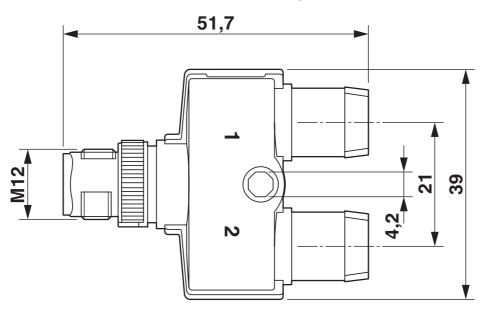
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Drawings



Dimensional drawing



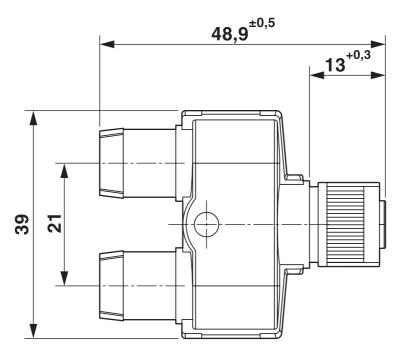
M12 SPEEDCON Y plugs



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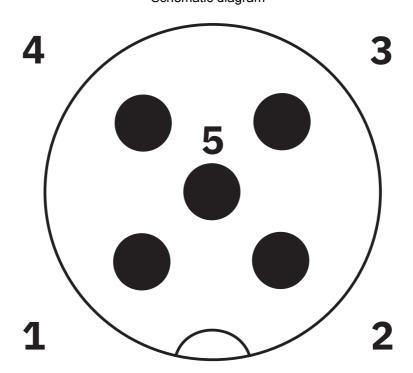


Dimensional drawing



The figure shows the variant with socket

Schematic diagram



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



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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1436107

©	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	-	-

• <u>®</u>	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	-	-

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

cULus Listed



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Classifications

ECLASS

	ECLASS-11.0	27060307		
	ECLASS-12.0	27060307		
	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			
Exemption	6(c)			
China RoHS				
Environment friendly use period (EFUP)	EFUP-50			
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.			
EU REACH SVHC				
REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)			
SCIP	32a1065f-afee-434d-8f71-a9b51b1aa238			



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Accessories

PROT-M12 FS-PA-CHAIN - Sealing cap

1430873

https://www.phoenixcontact.com/us/products/1430873

M12 sealing cap made of plastic with fixing band, for sensor cables, for free M12 plugs



SAC-M12-EXCLIP-M - Locking clip

1558988

https://www.phoenixcontact.com/us/products/1558988



Locking clip for the pin side of sensor/actuator cables with M12 connector and M12 connectors for assembly, for knurl diameter: 15 mm or for Allen key with a wrench size of 14 mm, prevents the disconnection of plug-in connections without tools



1436107

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SACC-M12FS-5PL SH DN - Data connector

1424672

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Data connector, CANopen[®], DeviceNet[™], 5-position, shielded, Socket straight M12, coding: A, Push-lock spring connection, knurl material: Zinc die-cast, nickel-plated, external cable diameter 4 mm ... 8 mm

SACC-M12MS-5PL SH DN - Data connector

1424670

https://www.phoenixcontact.com/us/products/1424670



Data connector, CANopen[®], DeviceNet[™], 5-position, shielded, Plug straight M12, coding: A, Push-lock spring connection, knurl material: Zinc die-cast, nickel-plated, external cable diameter 4 mm ... 8 mm



1436107

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SACC-M12FR-5PL SH DN - Data connector

1424673

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Data connector, CANopen[®], DeviceNet[™], 5-position, shielded, Socket angled M12, coding: A, Push-lock spring connection, knurl material: Zinc die-cast, nickel-plated, external cable diameter 4 mm ... 8 mm

SACC-M12MR-5PL SH DN - Data connector

1424671

https://www.phoenixcontact.com/us/products/1424671



Data connector, CANopen[®], DeviceNet[™], 5-position, shielded, Plug angled M12, coding: A, Push-lock spring connection, knurl material: Zinc die-cast, nickel-plated, external cable diameter 4 mm ... 8 mm



1436107

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SACC-M12FS-5QO SH DN - Data connector

1422760

https://www.phoenixcontact.com/us/products/1422760



Data connector, CANopen[®], DeviceNet[™], 5-position, halogen-free, shielded, Socket straight M12, coding: A, Insulation displacement connection, knurl material: Zinc die-cast, nickel-plated, external cable diameter 5 mm ... 9.7 mm

SACC-M12MS-5QO SH DN - Data connector

1422759

https://www.phoenixcontact.com/us/products/1422759



Data connector, CANopen[®], DeviceNet[™], 5-position, halogen-free, shielded, Plug straight M12, coding: A, Insulation displacement connection, knurl material: Zinc die-cast, nickel-plated, external cable diameter 5 mm ... 9.7 mm



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SAC-5PH-M-F/2XF SH1 SCO - H distributor

1417414

https://www.phoenixcontact.com/us/products/1417414



H distributor, 5-position, Plug straight M12, coding: A, on Socket straight M12, coding: A and Socket straight M12, coding: A, Thread M12 not rotatable, Parallel distributor

SAC-5P-M12T/2XM12 VP - T distributor

1541186

https://www.phoenixcontact.com/us/products/1541186



T distributor, 5-position, Plug straight M12, coding: A, on Socket straight M12, coding: A and Socket straight M12, coding: A, Parallel distributor



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SAC-5PT-F/F-M VP - T distributor

1424712

https://www.phoenixcontact.com/us/products/1424712



T distributor, CANopen[®], DeviceNet[™], 5-position, Socket straight M12, coding: A, on Socket straight M12, coding: A and Plug straight M12, coding: A, Parallel distributor

SAC-5P-M12MS CAN TR - Termination resistor

1507816

https://www.phoenixcontact.com/us/products/1507816



Terminating resistor CANopen[®]/DeviceNet™ M12



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TSD 04 SAC - Torque screwdriver

1208429

https://www.phoenixcontact.com/us/products/1208429



Torque screwdriver, with preset torque of 0.4 Nm and 4 mm hexagonal drive for M12 connectors

TSD-M 1,2NM - Torque screwdriver

1212224

https://www.phoenixcontact.com/us/products/1212224



Torque screw driver, accuracy as per EN ISO 6789 standard, adjustable from 0. 3 - 1.2 Nm



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TSD-M SAC-BIT ADAPTER - Adapter insert

1212600

https://www.phoenixcontact.com/us/products/1212600



Adapter bit for TSD-M...torque tools, E6.3-1/4" drive with 4 mm hexagon to accommodate SAC bits

SAC BIT M12-D15 - Tool

1208432

https://www.phoenixcontact.com/us/products/1208432



Nut for assembling sensor/actuator cables with M12 connector and M12 connectors for assembly, with a knurl diameter of 15 mm, for 4 mm hexagonal drive

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