

VS-ASI-J-Y-B-PUR-1,0-M12FS SCO - Distributor



1404456

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AS-Interface distributor with IP67 protection for two flat-ribbon conductors, with 2.0 m PUR round conductor and a molded, straight, A-coded, 4-pos. M12 SPEEDCON socket

Commercial data

Item number	1404456
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	BF10
Product key	BF1GFA
Catalog page	Page 234 (C-6-2017)
GTIN	4046356322287
Weight per piece (including packing)	65.6 g
Weight per piece (excluding packing)	65 g
Customs tariff number	85444290
Country of origin	VN

Technical data

Product properties

Product type	Network distributor box
Number of positions	4
Coding	A

Insulation characteristics

Overvoltage category	II
Degree of pollution	3

Electrical properties

Nominal voltage U_N	≤ 35 V DC
Nominal current I_N	4 A
Transmission medium	Copper

Connection data

Connection technology

Connection method	AS-i penetration technique
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Interfaces

Bus system	AS-Interface
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Signaling

Status display	no
Status display present	No

Connector

Connection 1

Type	Load center lateral AS-i Screw locking
Number of positions	4
Locking type	Screw locking mechanism
Material	CuZn (Contact)
	Ni/Au (Contact surface)
	TPE-U (Contact carriers)
	PA-GF (Housing)
	Stainless steel (Screw connection)
Tightening torque	1.65 Nm (Locking screw)

Connection 2

Type	Socket straight M12 SPEEDCON
Number of positions	4 (5)
Locking type	SPEEDCON
	CuSn (Contact)

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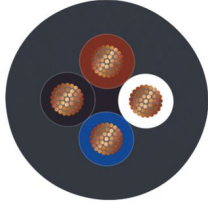
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Material	Ni/Au (Contact surface)
	TPU GF (Contact carriers)
	TPU (Grip body)
	Zinc die-cast, nickel-plated (Screw connection)
Insertion/withdrawal cycles	≥ 100
Tightening torque	0.4 Nm

Cable/line

Cable length	1 m
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PUR halogen-free black [PUR]

Dimensional drawing	
Cable weight	30 kg/km
UL AWM Style	20549 / 10493 (80°C/300 V)
Number of positions	4
Shielded	no
Cable type	PUR halogen-free black [PUR]
Conductor structure signal line	42x 0.10 mm
AWG signal line	22
Conductor cross section	4x 0.34 mm ²
Wire diameter incl. insulation	1.27 mm ±0.02 mm
External cable diameter	4.70 mm ±0.15 mm
Outer sheath, material	PUR
External sheath, color	black-gray RAL 7021
Conductor material	Bare Cu litz wires
Material wire insulation	PP
Single wire, color	brown, white, blue, black
Thickness, insulation	≥ 0.21 mm
Thickness, outer sheath	approx. 0.80 mm
Overall twist	4 wires, twisted
Max. conductor resistance	≤ 58 Ω/km
Insulation resistance	≥ 1 GΩ*km
Nominal voltage, cable	≤ 300 V
Test voltage	≥ 3000 V
Minimum bending radius, fixed installation	5 x D
Minimum bending radius, flexible installation	10 x D
Smallest bending radius, fixed installation	23.5 mm

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Smallest bending radius, movable installation	47 mm
Max. bending cycles	4000000
Minimum bending radius, drag chain applications	10 x D
Bending radius	47 mm
Traversing path	10 m
Traversing rate	3 m/s
Acceleration	10 m/s ²
Flexible cable conduit capable	yes
Halogen-free	in accordance with DIN VDE 0472 part 815
	in accordance with DIN EN 50267-2-1
Flame resistance	according to UL 758/1581 (horizontal)
	in accordance with UL 758/1581 FT2
Resistance to oil	in accordance with DIN EN 60811-2-1
Other resistance	Highly resistant to acids, alkaline solutions and solvents
	hydrolysis and microbe resistant
	partly UV-resistant (in accordance with DIN EN ISO 4892-2-A)
	Low adhesion
	abrasion-resistant
Special properties	Flexible cable conduit capable
	Silicone-free
	Free of substances which would hinder coating with paint or varnish
	flexible
Ambient temperature (operation)	-40 °C ... 80 °C (cable, fixed installation)
	-25 °C ... 80 °C (Cable, flexible installation)

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP65
	IP67
Ambient temperature (operation)	-25 °C ... 75 °C
	-25 °C ... 75 °C (cable, fixed installation)
	-5 °C ... 75 °C (Cable, flexible installation)
Ambient temperature (storage/transport)	-25 °C ... 80 °C

Standards and regulations

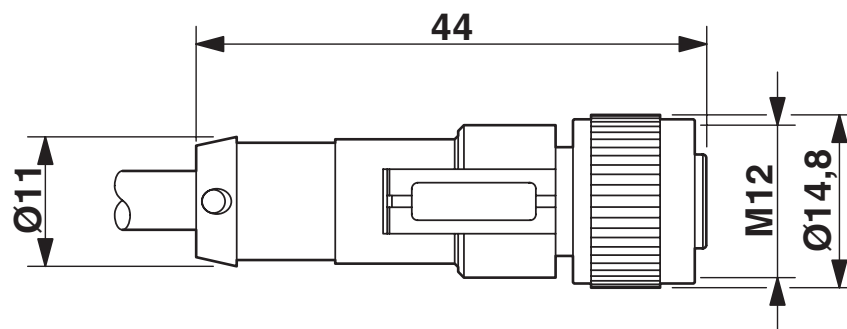
Standard designation	M12 connector
Standards/specifications	IEC 61076-2-101

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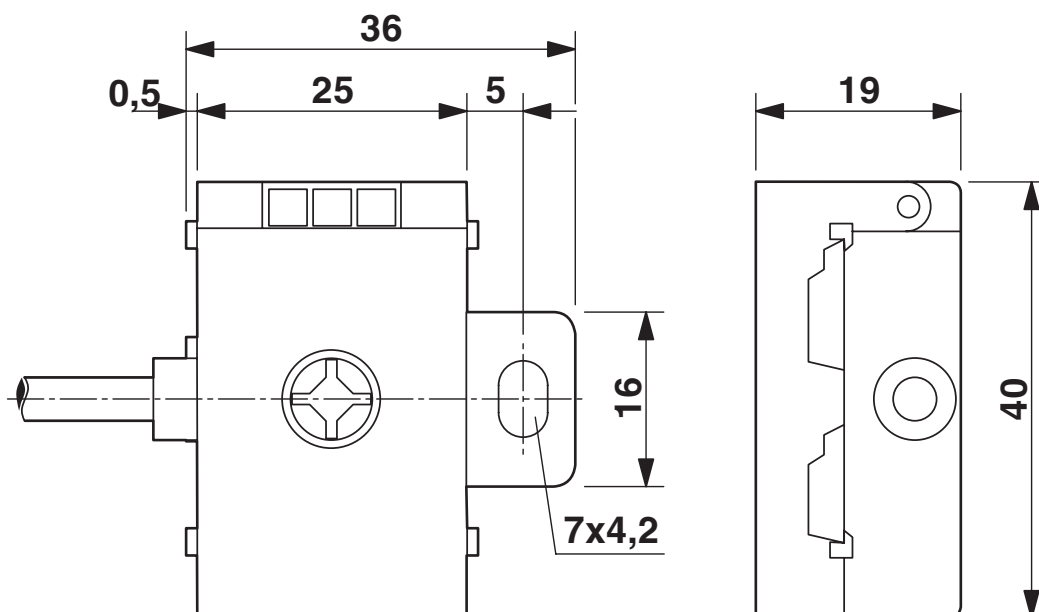
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Drawings

Dimensional drawing



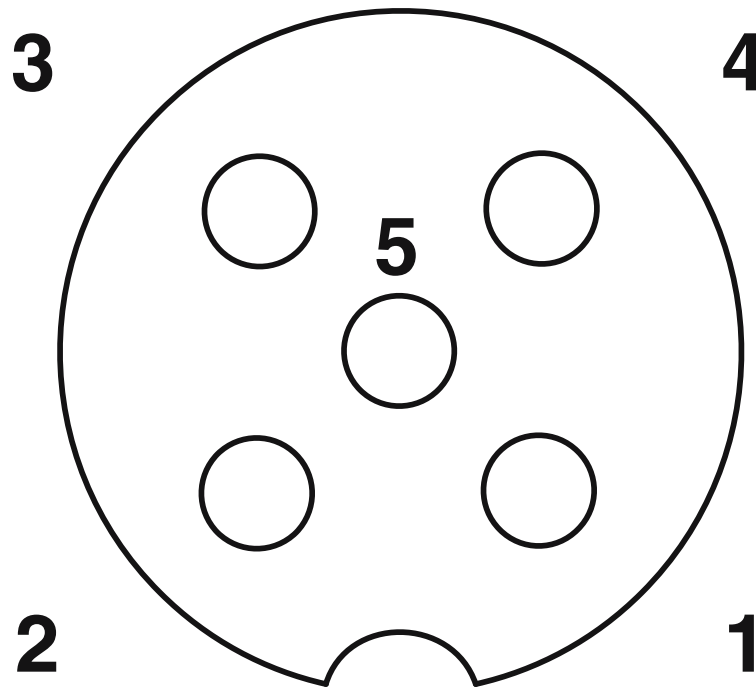
Dimensional drawing



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Schematic diagram



Pin assignment M12, PIN 1: AS-i +, PIN 2: AUX -, PIN 3: AS-i -, PIN 4: AUX +, PIN 5: Not used

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Classifications

ECLASS

ECLASS-11.0	27440106
ECLASS-13.0	27440106

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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Accessories

PROT-MS SCO - Screw plug

1553129

<https://www.phoenixcontact.com/us/products/1553129>



M12 screw plug with fast-locking system for unoccupied M12 female connectors of sensor/actuator cables, boxes, and flush-type connectors

SZK PH2 VDE - Screwdriver

1205163

<https://www.phoenixcontact.com/us/products/1205163>



Screwdriver, PH crosshead, VDE insulated, size: PH 2 x 100 mm, 2-component grip, with non-slip grip

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TSD 04 SAC - Torque screwdriver

1208429

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

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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