

VS-FSDBPS-IP20-93K-LI/2,0 - Bus system cable



1419167

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Bus system cable, degree of protection: IP67/IP20, cable length: 2 m, number of positions: 4, cable outlet: straight, Sercos, 1x4xAWG22/7, SF/TQ, signal red RAL 3020

Commercial data

Item number	1419167
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	AB18
Product key	ABNPAA
GTIN	4046356541121
Weight per piece (including packing)	174.5 g
Weight per piece (excluding packing)	173.964 g
Customs tariff number	85444210
Country of origin	PL

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Technical data

Product properties

Product type	Circular connectors (device side)
Sensor type	Sercos
Number of positions	4
No. of cable outlets	1
Shielded	yes
Cable outlet	straight

Material specifications

Outer sheath, material	PVC
Conductor material	Tin-plated Cu litz wires

Electrical properties

Transmission medium	Copper
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Connector

Connection 1

Type	Flush-type female connector straight M12
Locking type	SPEEDCON
Coding type	A
Degree of protection	IP65/IP67


Connection 2

Type	Plug straight RJ45
Degree of protection	IP20

Cable/line

Cable length	2.00 m
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Sercos III [93K]

Dimensional drawing	
Cable weight	68 kg/km
UL AWM Style	21694 (60 °C / 600 V)
Number of positions	4
Shielded	yes

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Cable type	Sercos III [93K]
Conductor structure	1x4xAWG22/7, SF/TQ
Signal runtime	5.3 ns/m
Conductor structure signal line	7x 0.25 mm
AWG signal line	22
Conductor cross-section	4x 0.34 mm ²
Wire diameter incl. insulation	approx. 1.55 mm
External cable diameter	6.50 mm ±0.2 mm
Outer sheath, material	PVC
External sheath, color	signal red RAL 3020
Conductor material	Tin-plated Cu litz wires
Material wire insulation	PE
Single wire, color	white, yellow, blue, orange
Thickness, outer sheath	approx. 0.90 mm
Type of pair shielding	Aluminum-lined polyester foil
Overall twist	Star quad
Max. conductor resistance	≤ 120 Ω/km
Insulation resistance	≥ 0.5 GΩ*km
Coupling resistance	≤ 20.00 mΩ/m (at 10 Hz)
Wave impedance	100 Ω ±15 Ω (at 100 MHz)
Nominal voltage, cable	600 V
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	3 x D
Minimum bending radius, flexible installation	7 x D
Smallest bending radius, fixed installation	20 mm
Smallest bending radius, movable installation	46 mm
Flame resistance	according to UL 1685 (CSA FT 4)
Resistance to oil	Resistant to oil to a limited extent
Other resistance	UV resistant (according to UL 1581, Section 1200)
Ambient temperature (operation)	-40 °C ... 70 °C (cable, fixed installation) -40 °C ... 70 °C (Cable, flexible installation)
Ambient temperature (installation)	-20 °C ... 60 °C

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20 IP67/IP20
Ambient temperature (operation)	-10 °C ... 60 °C (cable, fixed installation) -5 °C ... 50 °C (Cable, flexible installation)

Standards and regulations

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

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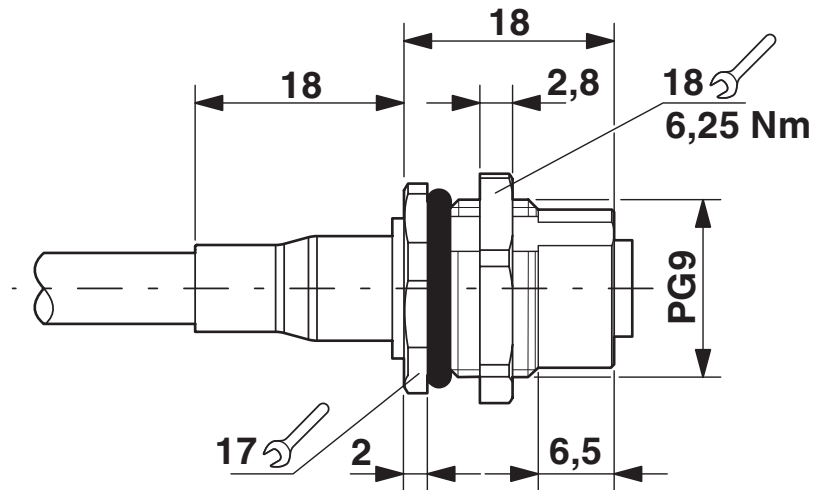


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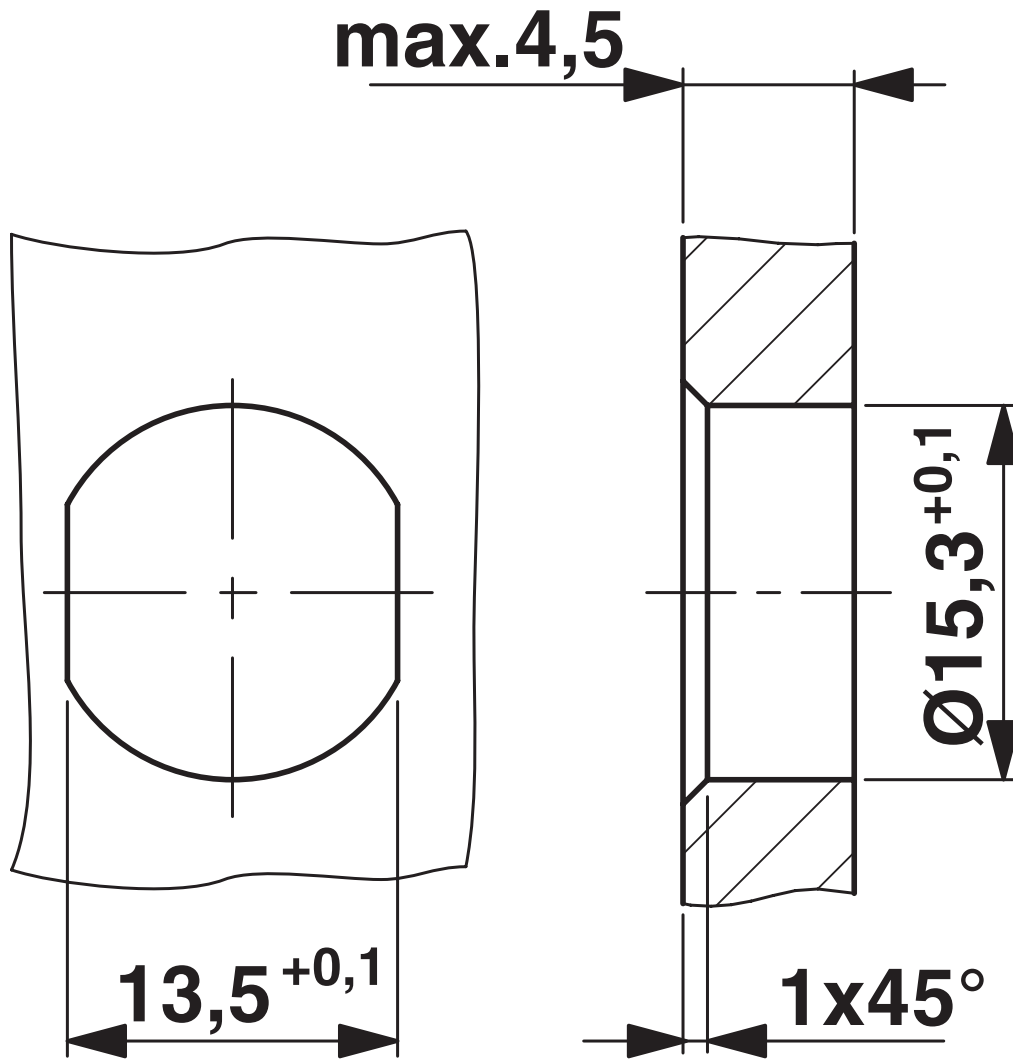
Drawings

Dimensional drawing



M12 panel feed-through

Dimensional drawing



Housing cutout for Pg9 fastening thread, mounting panel with feed-through hole (alternatively with surface as protection against rotation)

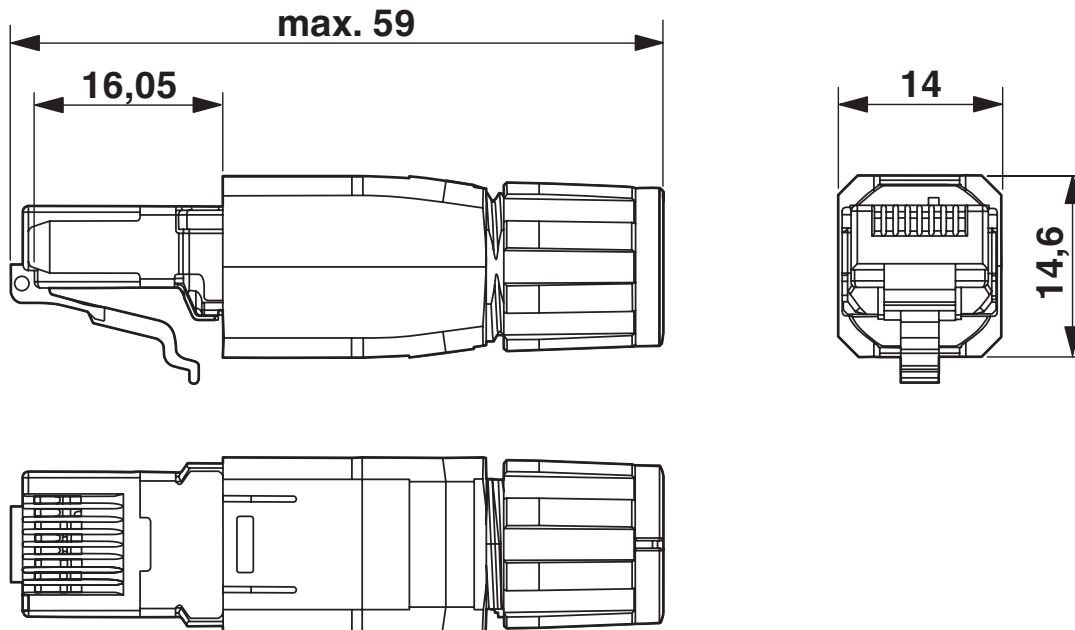
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Dimensional drawing



RJ45 connector, IP20

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Approvals

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EAC

Approval ID: 19060508

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Classifications

ECLASS

ECLASS-13.0	27440103
ECLASS-15.0	27440103

ETIM

ETIM 10.0	EC003570
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UNSPSC

UNSPSC 21.0	39121400
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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
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China RoHS

Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits

EU REACH SVHC

REACH candidate substance (CAS No.)	2-(2H-benzotriazol-2-yl)-4-(1,1,3,3-tetramethylbutyl)phenol (UV-329)(CAS: 3147-75-9)
SCIP	ccfeab6d-b19f-4c76-9108-71abedff1696

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