

Bus system cable - SAC-2P-M12MSB/ 6,0-910/M12FSB - 1530249

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Bus system cable, PROFIBUS, PROFIBUS, 2-position, PUR halogen-free, Violet, RAL 4001, shielded, Plug straight M12, B-coded, on Socket straight M12, B-coded, Cable length: 6 m



Key commercial data

package_quantity	1
GTIN	4017918990053

Technical data

Dimensions

Length of cable	6 m
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Ambient conditions

Degree of protection	IP65
Degree of protection	IP67
Degree of protection	IP68

General

Rated current at 40°C	4 A
Rated voltage	250 V
Number of positions	2
Contact resistance	≤ 5 mΩ
Insulation resistance	≥ 100 MΩ
Coding	B - inverse
Signal type/category	PROFIBUS
Status display	No
Surge voltage category	II
Pollution degree	3
Insertion/withdrawal cycles	≥ 100

Material

Inflammability class according to UL 94	V0
Contact material	CuSn
Contact surface material	Ni/Au
Contact carrier material	PA 66

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Technical data

Material

Material of grip body	TPU, hardly inflammable, self-extinguishing
Material, knurls	Zinc die-cast, nickel-plated
Sealing material	NBR

Cable

Cable type	PROFIBUS
Conductor cross section	0.32 mm ²
AWG signal line	24
Conductor structure signal line	19x 0.13 mm
Core diameter including insulation	2.55 mm ±0.07 mm
Wire colors	Red, green
Type of pair shielding	Aluminum-lined polyester foil
Overall twist	2 cores with 2 fillers to the core
Shielding	Tinned copper braided shield
Optical shield covering	80 %
External sheath, color	Violet, RAL 4001
External cable diameter	7.80 mm
Smallest bending radius, fixed installation	min. 78 mm
Smallest bending radius, movable installation	min. 78 mm
Number of bending cycles	5000000
Bending radius	78 mm
Traversing path	10 m
Traversing rate	3 m/s
Acceleration	7 m/s ²
Outer sheath, material	PUR
Material conductor insulation	Foamed PE
Conductor material	Tin-plated Cu litz wires
Insulation resistance	≥ 5 GΩ*km
Conductor resistance	≤ 78.4 Ω/km
Working capacitance	32 pF (core-core)
Nominal voltage, cable	30 V
Test voltage Core/Core	1500 V

classifications

eCl@ss

eCl@ss 4.0	27060306
eCl@ss 4.1	27060306
eCl@ss 5.0	27061801
eCl@ss 5.1	27061801
eCl@ss 6.0	27061801
eCl@ss 7.0	27061801

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classifications

eCl@ss

eCl@ss 8.0	27061801
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ETIM

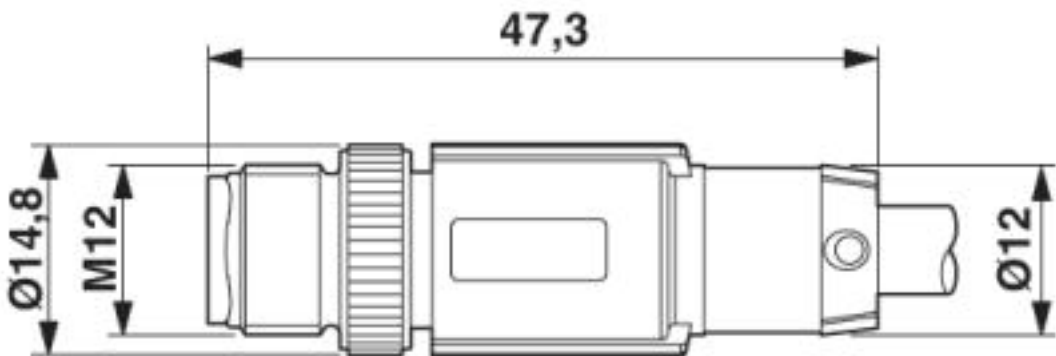
ETIM 2.0	EC000830
ETIM 3.0	EC001855
ETIM 4.0	EC001855
ETIM 5.0	EC001855

UNSPSC

UNSPSC 6.01	31251501
UNSPSC 7.0901	31251501
UNSPSC 11	31251501
UNSPSC 12.01	31251501
UNSPSC 13.2	31251501

Drawings

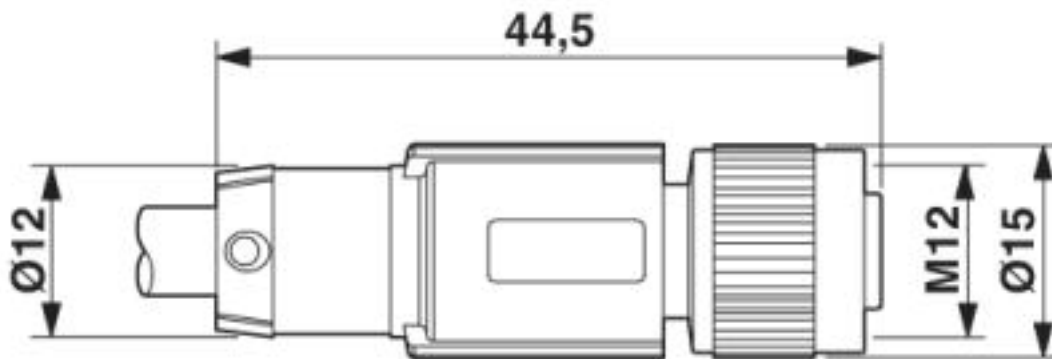
Dimensioned drawing



Plug, M12 x 1, straight, shielded

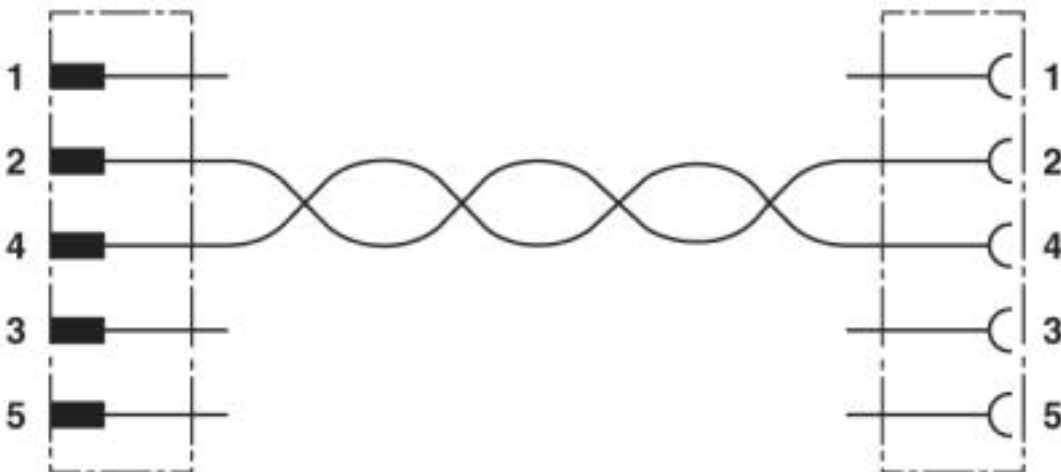
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Dimensioned drawing



M12 x 1 socket, straight, shielded

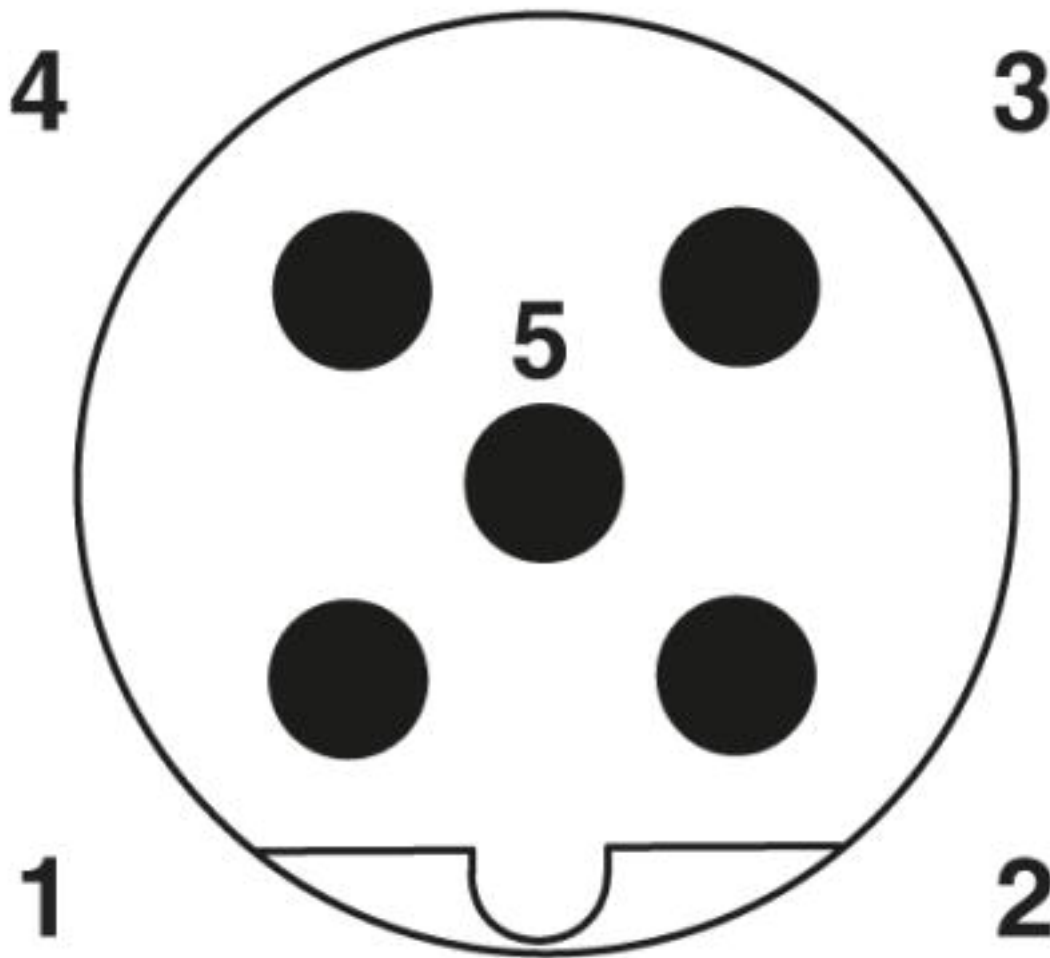
Circuit diagram



Contact assignment of the M12 connector and the M12 socket

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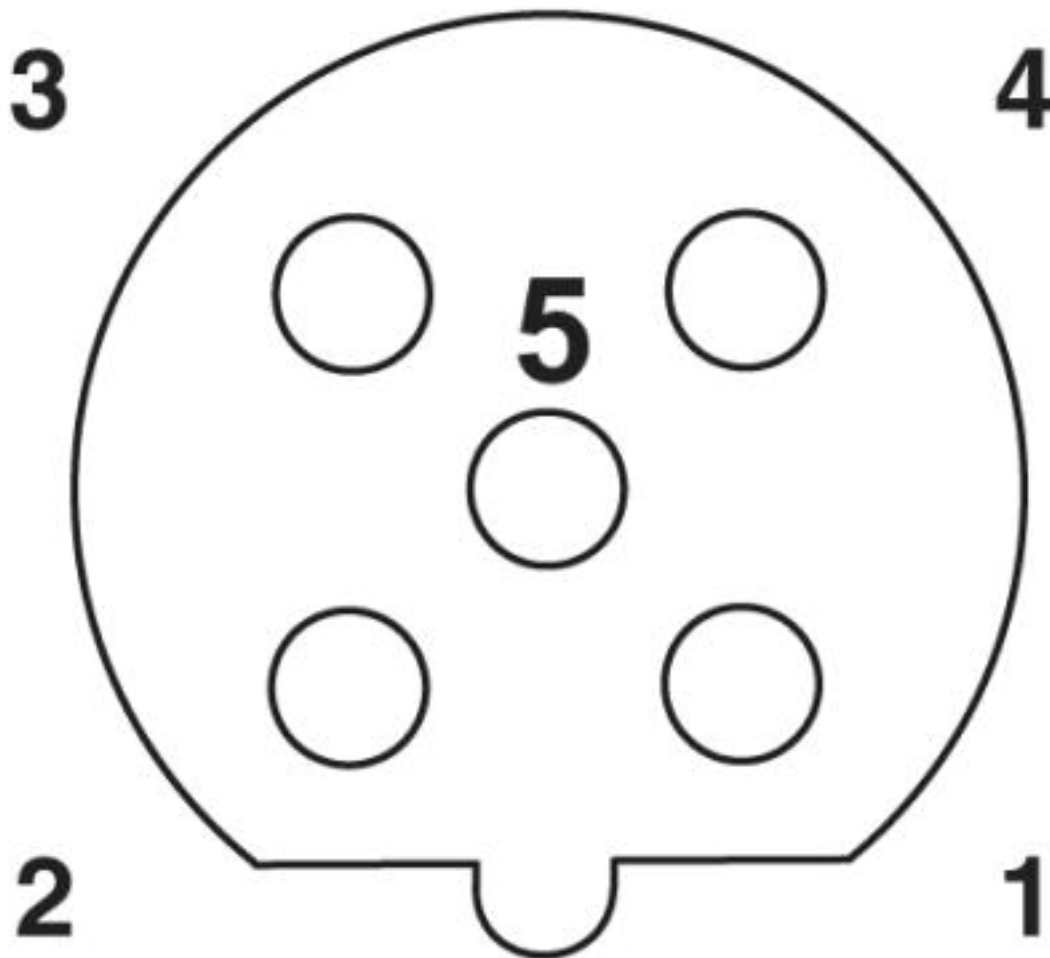
Schematic diagram



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

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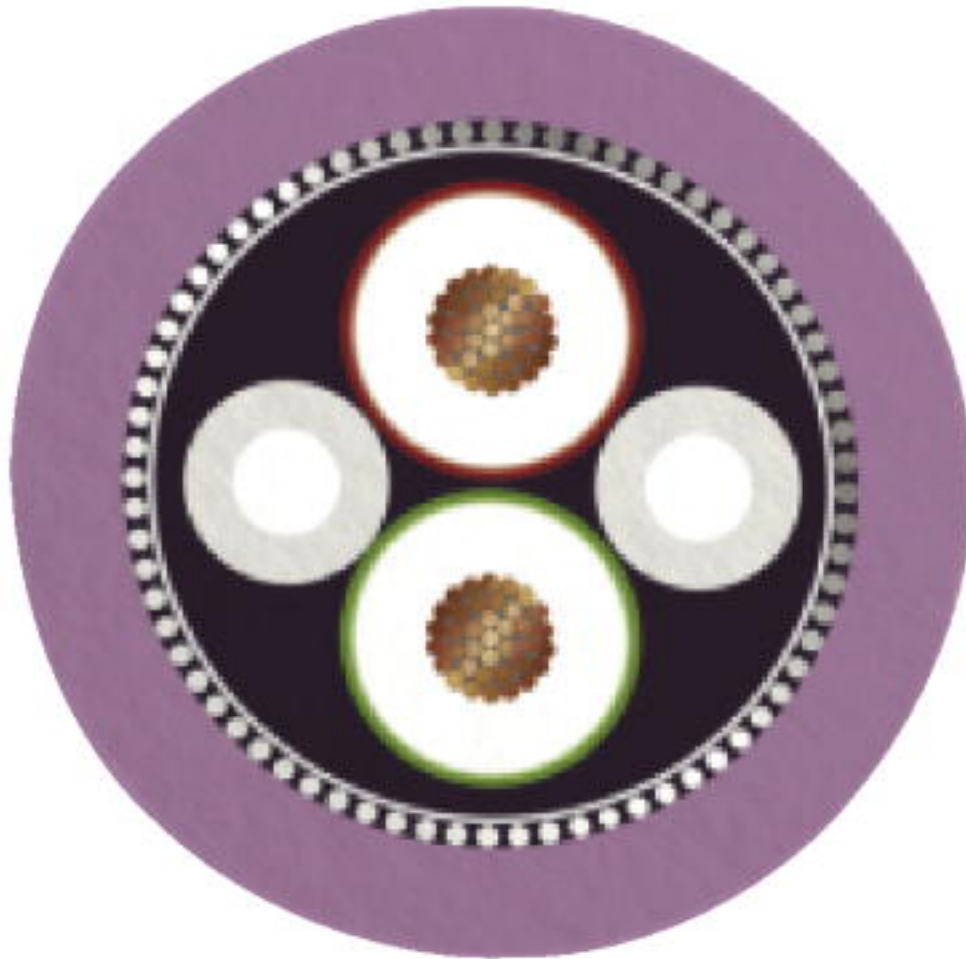
Schematic diagram



Pin assignment M12 socket, 5-pos., B-coded, female side

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Cable cross section



PROFIBUS [910]

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