

Network cable - VS-M12MSD/10,0-93X OD - 1454228

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Network cable, Ethernet, PROFINET, 4-position, RADOX® GKW S halogen-free, Black-gray RAL 7021, shielded, Plug Straight M12 / IP65, Coding: D, on Free cable end, Cable length: 10 m, For outdoor applications, With high-grade steel knurl



Ethernet

Key commercial data

package_quantity	1
GTIN	4046356568838

Technical data

Dimensions

Length of cable	10 m
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Ambient conditions

Ambient temperature (operation)	-40 °C ... 105 °C
Ambient temperature (operation)	-40 °C ... 85 °C (On sudden changes in temperature (according to IEC 60512-11-4))
Degree of protection	IP65
Degree of protection	IP67
Degree of protection	IP68
Degree of protection	IP69K

General

Rated current at 40°C	4 A
Rated voltage	250 V
Number of positions	4
Coding	D - data
Standards/regulations	M12 connector IEC 61076-2-101
Signal type/category	Ethernet
Signal type/category	PROFINET
Status display	No
Pollution degree	3
Insertion/withdrawal cycles	≥ 100
Torque	0.4 Nm (M12 connector)

Material

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Material

Inflammability class according to UL 94	V0
Contact material	CuSn
Contact surface material	Ni/Au
Contact carrier material	PP
Material of grip body	PP
Material, knurls	High-grade steel
Sealing material	FPM

Cable

Cable type	Ethernet
Cable type (abbreviation)	936
Cable structure	1x4xAWG22/7; SF/TQ
Conductor cross section	3x 0.34 mm ² (signal line)
AWG signal line	22
Conductor structure signal line	7x 0.25 mm
Core diameter including insulation	1.95 mm
Thickness, insulation	min. 0.8 mm (Outer cable sheath)
Wire colors	white, orange, blue, yellow
Overall twist	4 wires, twisted
Shielding	Plastic-coated aluminum foil, tinned copper braided shield
Optical shield covering	100 %
External sheath, color	Black RAL 9005
External cable diameter	7.25 mm
Smallest bending radius, fixed installation	> 43.5 mm
Cable weight	81 kg/km
Outer sheath, material	RADOX® GKW S
Material conductor insulation	RADOX® Com
Conductor material	silver-plated Cu litz wires
Conductor resistance	≤ 54.4 Ω/km (at 20 °C)
Transmission characteristics (category)	CAT5 (IEC 11801:2002), CAT5e (TIA 568B:2001)
Working capacitance	≤ 65 pF (core-core)
Working capacitance	≤ 100 pF (core-shield)
Wave impedance	100 Ω ±5 % (f = 100 MHz)
Shield attenuation	40 dB (30 MHz ≤ f ≤ 100 MHz)
Coupling resistance	200.00 mΩ/m (f ≤ 30 MHz)
Nominal voltage, cable	300 V
Test voltage, cable	1500 V
Special properties	Fire protection in rail vehicles as per DIN 5510-2 Fire protection level 1, 2, 3, 4
Special properties	Fire protection in rail vehicles as per BS 6853 Cables inside and outside the vehicle, Cat. Ia, Ib, II
Special properties	manufactured as per EN 50288-2-2 multi-strand metallic data and control cables

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Special properties	Fire protection in rail vehicles according to CEI 11170
Resistance to oil	as per EN 50306-3 section 4.8
Other resistance	Resistance to acids and alkalis as per EN 50306-3 section 4.10
Other resistance	Resistance to fuels as per EN 50306-3 section 4.9
Ambient temperature (operation)	-40 °C ... 90 °C (cable, fixed installation)
Ambient temperature (operation)	-25 °C ... 90 °C (cable, flexible installation)

classifications

eCl@ss

eCl@ss 4.0	272607xx
eCl@ss 4.1	27260701
eCl@ss 5.0	27260701
eCl@ss 5.1	27060307
eCl@ss 6.0	27061801
eCl@ss 7.0	27061801
eCl@ss 8.0	27061801

ETIM

ETIM 3.0	EC000830
ETIM 4.0	EC000830
ETIM 5.0	EC001855

UNSPSC

UNSPSC 6.01	31261501
UNSPSC 7.0901	31261501
UNSPSC 11	31261501
UNSPSC 12.01	31261501
UNSPSC 13.2	31261501

accessories

Torque tool

TSD 04 SAC - 1208429



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accessories

TSD-M 1,2NM - 1212224



Screwdriver tools

TSD-M SAC-BIT ADAPTER - 1212600

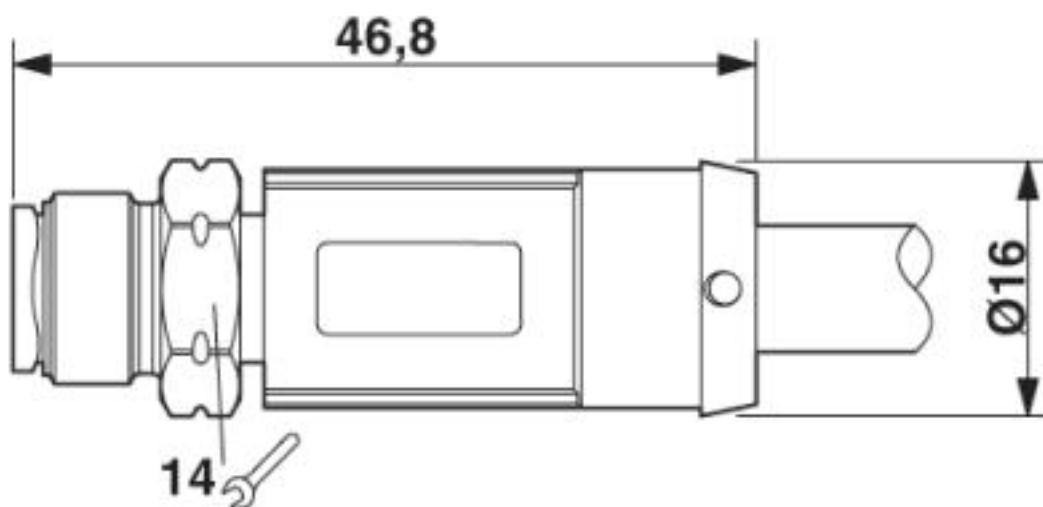


SAC BIT M12-W14 - 1212513



Drawings

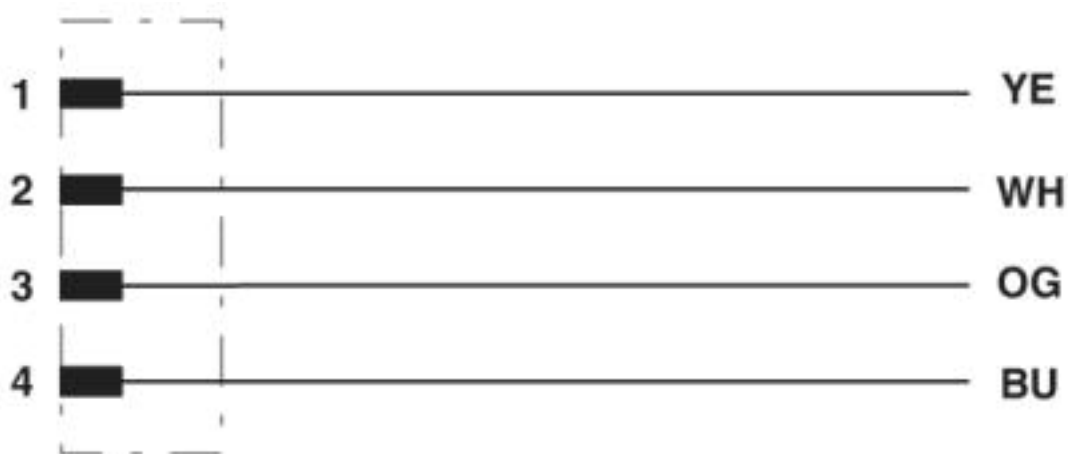
Dimensioned drawing



M12 x 1 plug, straight

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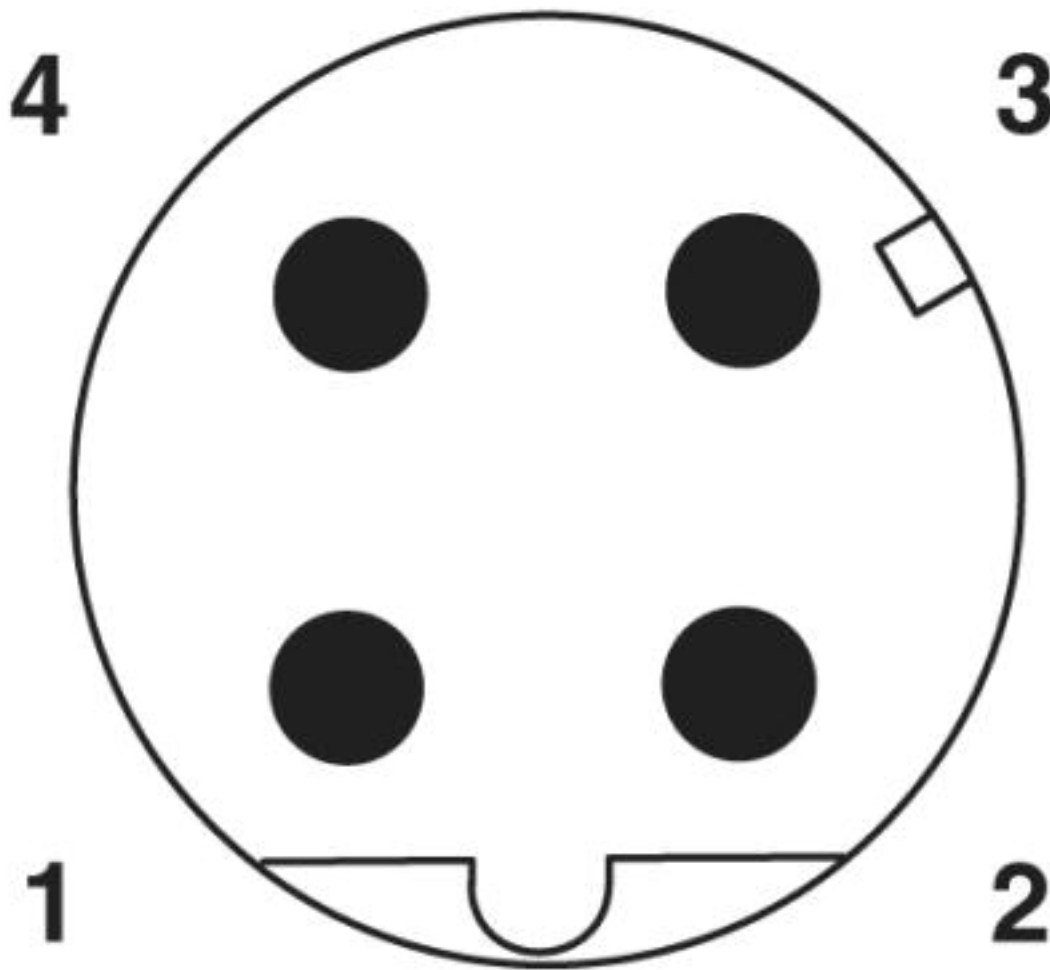
Circuit diagram



Contact assignment of the M12 plug

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Schematic diagram



Pin assignment M12 male connector, 4-pos., D-coded, male side

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Cable cross section



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