

Bus system cable - SAC-4P-M12MSD/ 8,0-930/M12FSDX - 1570571

Please be informed that the data shown in this PDF Document is generated from our Online Catalog. Please find the complete data in the user's documentation. Our General Terms of Use for Downloads are valid (<http://phoenixcontact.com/download>)



Bus system cable, Ethernet CAT5 (100 Mbps), 4-position, PUR halogen-free, water blue RAL 5021, shielded, Plug straight M12, coding: D, on Socket straight M12, coding: D, cable length: 8 m, Crossover

RoHS

Key Commercial Data

Packing unit	1 pc
Minimum order quantity	25 pc
Weight per Piece (excluding packing)	520.800 g
Custom tariff number	85444290
Country of origin	Germany

Technical data

Dimensions

Length of cable	8 m
-----------------	-----

Ambient conditions

Degree of protection	IP65
	IP67
	IP68

General

Rated current at 40°C	4 A
Rated voltage	48 V AC
	60 V DC
Number of positions	4
Insulation resistance	≥ 100 MΩ
Coding	D - data
Status display	No

Bus system cable - SAC-4P-M12MSD/ 8,0-930/M12FSDX - 1570571

Technical data

General

Overvoltage category	II
Degree of pollution	3

Material

Flammability rating according to UL 94	V0
Contact material	CuSn
Contact surface material	Ni/Au
Contact carrier material	PA 6.6
Material of grip body	TPU, hardly inflammable, self-extinguishing
Material, knurls	Zinc die-cast, nickel-plated
Sealing material	NBR

Standards and Regulations

Flammability rating according to UL 94	V0
--	----

Cable

Cable type	Ethernet
Cable type (abbreviation)	930
Conductor cross section	0.25 mm ²
AWG signal line	24
Conductor structure signal line	7x 0.20 mm
Core diameter including insulation	1.4 mm
Wire colors	White-green, white-orange
Twisted pairs	2 cores to the pair
Type of pair shielding	Aluminum-lined polyester foil
Overall twist	2 cores with 2 fillers to the core
Shielding	Braided shielding made of galvanized copper wires
Optical shield covering	65 %
External sheath, color	water blue RAL 5021
External cable diameter	8.00 mm
Smallest bending radius, fixed installation	min. 40 mm
Smallest bending radius, movable installation	min. 40 mm
Cable weight	54 kg/km
Outer sheath, material	PUR
Material conductor insulation	Cell PE
Conductor material	Bare Cu litz wires
Insulation resistance	5 GΩ*km
Conductor resistance	84 mΩ/m
Working capacitance	42.5 pF

Bus system cable - SAC-4P-M12MSD/ 8,0-930/M12FSDX - 1570571

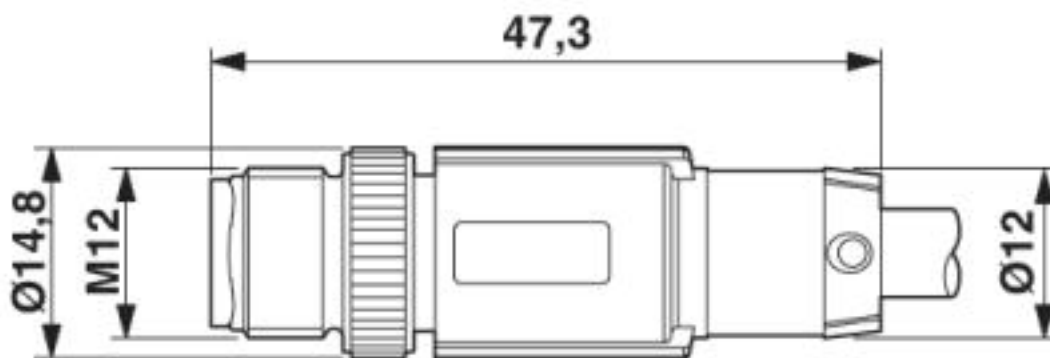
Technical data

Cable

Wave impedance	100 $\Omega \pm 5 \%$
Signal speed	0.72 c
Signal runtime	46 ns/m
Shield attenuation	60 dB (up to 1000 MHz)
Interference suppression	90 dB (up to 1000 MHz)
Nominal voltage, cable	125 V
Test voltage, cable	1000 V
Ambient temperature (operation)	-20 °C ... 70 °C (cable, fixed installation)
	0 °C ... 50 °C (cable, flexible installation)

Drawings

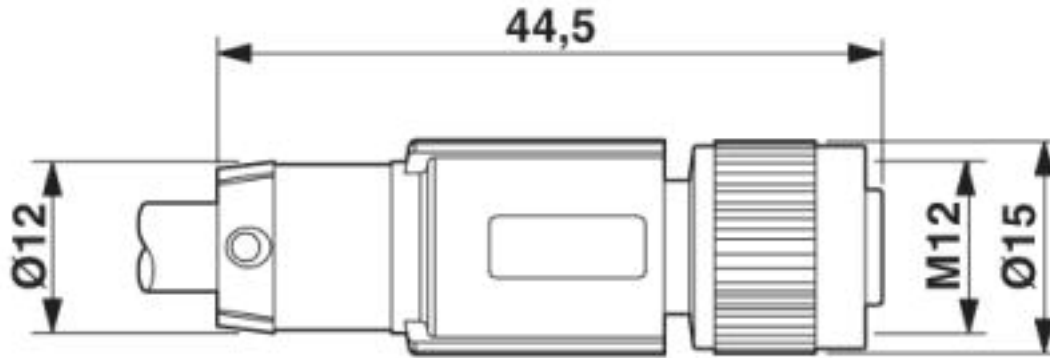
Dimensional drawing



Plug, M12 x 1, straight, shielded

Bus system cable - SAC-4P-M12MSD/ 8,0-930/M12FSDX - 1570571

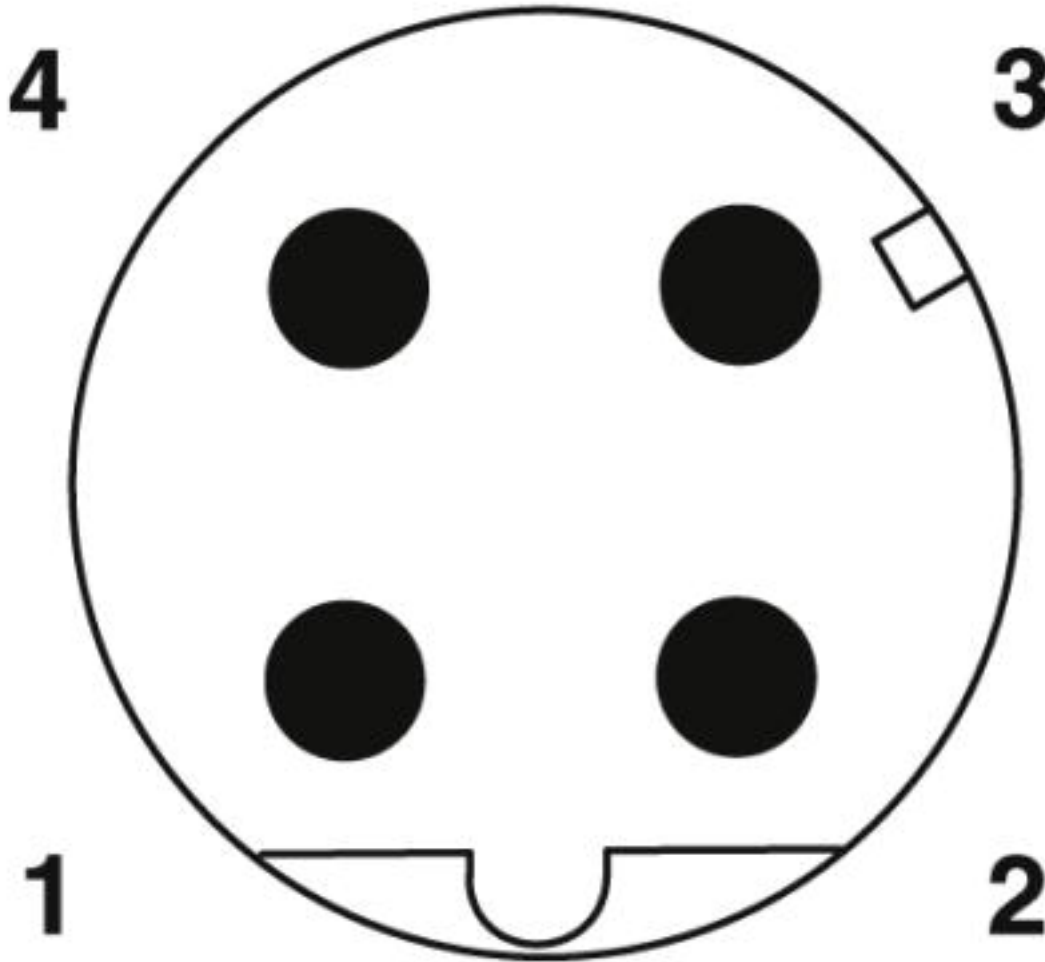
Dimensional drawing



M12 x 1 socket, straight, shielded

Bus system cable - SAC-4P-M12MSD/ 8,0-930/M12FSDX - 1570571

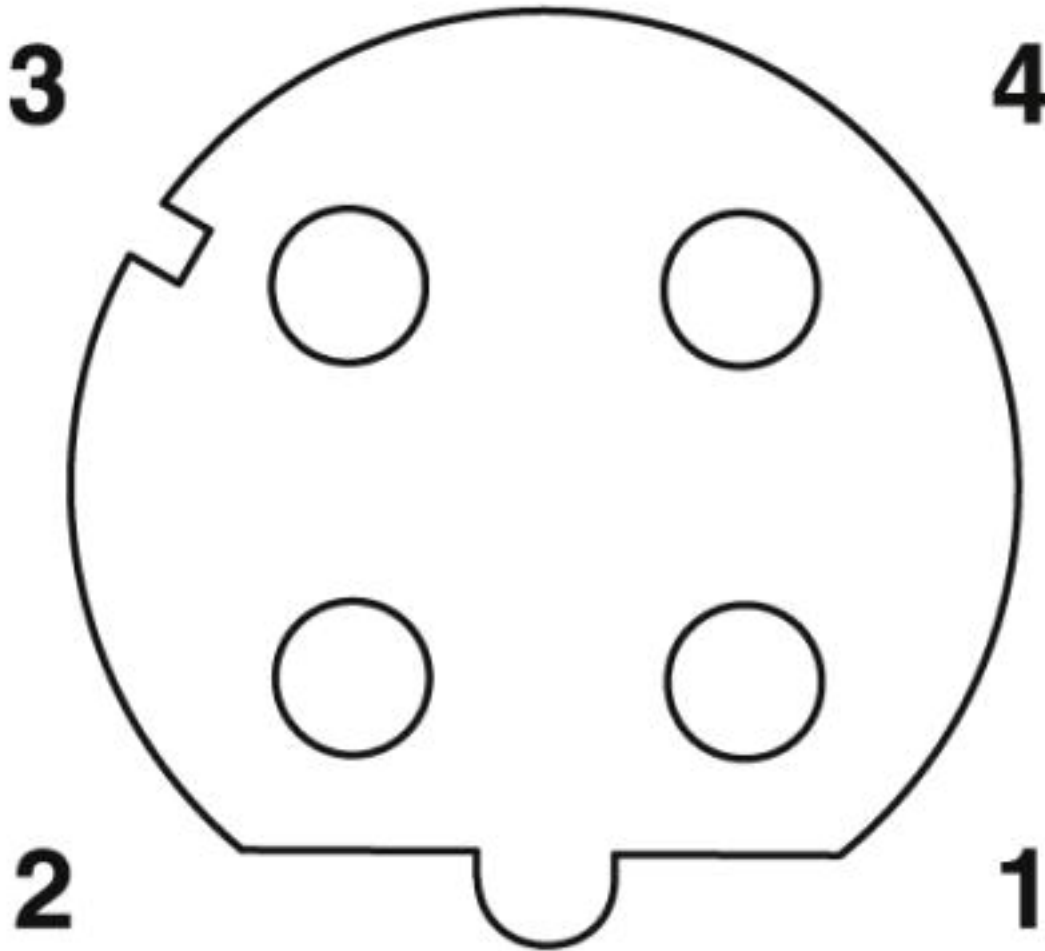
Schematic diagram



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

Bus system cable - SAC-4P-M12MSD/ 8,0-930/M12FSDX - 1570571

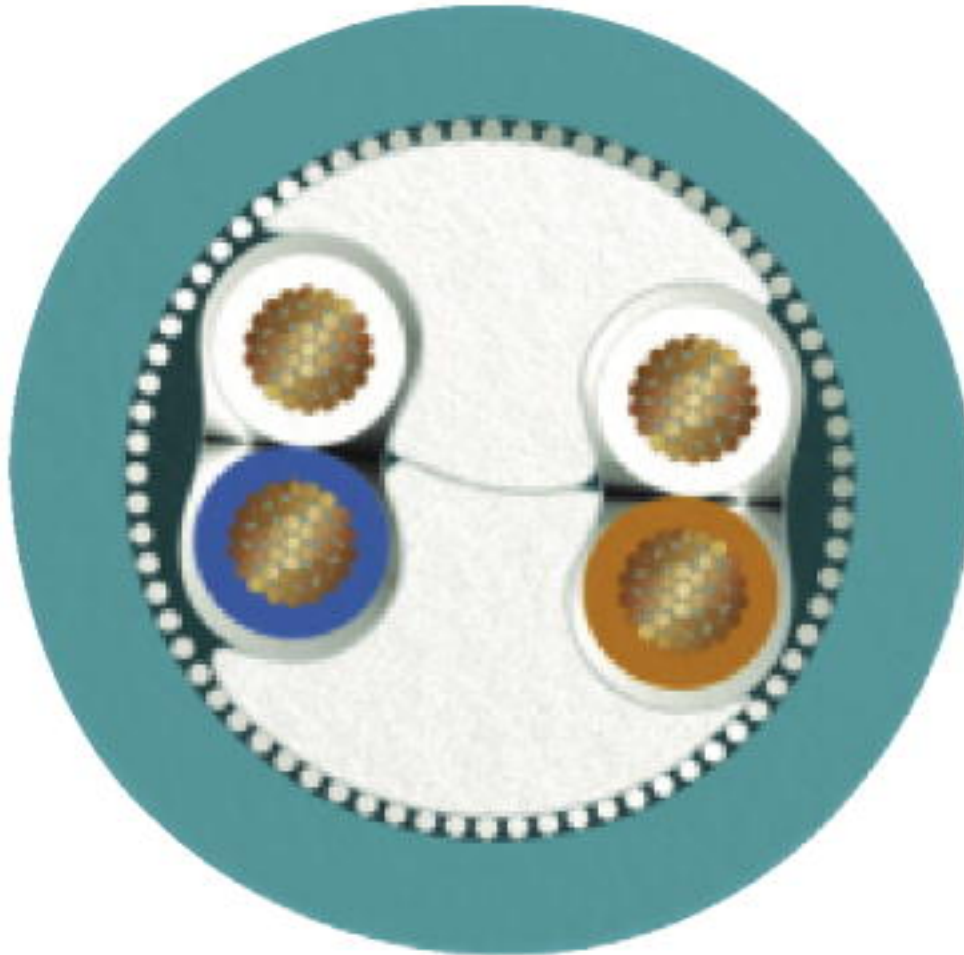
Schematic diagram



Pin assignment M12 socket, 4-pos., D-coded, female side

Bus system cable - SAC-4P-M12MSD/ 8,0-930/M12FSDX - 1570571

Cable cross section



Ethernet [930]

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 8.0	27279218
eCl@ss 9.0	27060308

Bus system cable - SAC-4P-M12MSD/ 8,0-930/M12FSDX - 1570571

Classifications

ETIM

ETIM 3.0	EC001855
ETIM 4.0	EC001855
ETIM 5.0	EC001855

UNSPSC

UNSPSC 12.01	31251501
--------------	----------