chanhvinh.com

SAC-4P-M12MS/ 1,0-990/M12FS - Bus system cable

1558425

https://www.phoenixcontact.com/gb/products/1558425

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 documentation. Our general terms of use for downloads are valid.



Bus system cable, CC link (10 Mbps), 4-position, PVC, red, shielded, Plug straight M12, coding: A, on Socket straight M12, coding: A, cable length: 1 m

Commercial data

Item number	1558425
Packing unit	1 pc
Minimum order quantity	50 pc
Note	Made to order (non-returnable)
Sales key	AF1CJF
Product key	AF1CJF
Catalog page	Page 401 (PC-2011)
GTIN	4046356293754
Weight per piece (including packing)	112.6 g
Weight per piece (excluding packing)	109 g
Customs tariff number	85444290
Country of origin	PL

chanhvinh.com

SAC-4P-M12MS/ 1,0-990/M12FS - Bus system cable

1558425

https://www.phoenixcontact.com/gb/products/1558425

Technical data

Product properties

Product type	Data cable preassembled
Application	Standard
Sensor type	CC link
Number of positions	4
No. of cable outlets	1
Coding	A

Insulation characteristics

Overvoltage category	II
Degree of pollution	3

Interfaces

Signal type/category	CC link, 10 Mbps

Signaling

Status display	no
Status display present	no

Electrical properties

Insulation resistance	≥ 100 MΩ
Nominal voltage U_N	48 V AC
	60 V DC
Nominal current I_N	4 A
Transmission medium	Copper

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	≥ 100

Material specifications

Flammability rating according to UL 94	HB
Seal material	NBR
Material of grip body	TPU, hardly inflammable, self-extinguishing
Contact material	CuZn
Contact surface material	Ni/Au
Contact carrier material	TPU GF
Material for screw connection	Zinc die-cast, nickel-plated

Connection data

Pin assignment

chanhvinh.com

SAC-4P-M12MS/ 1,0-990/M12FS - Bus system cable

1558425

https://www.phoenixcontact.com/gb/products/1558425

Contact | Color (signal designation) | Contact (optional)	1 (Plug) | SR (shield) | 1 (Socket)
	2 (Plug) | WH (DB) | 2 (Socket)
	3 (Plug) | YE (DG) | 3 (Socket)
	4 (Plug) | BU (DA) | 4 (Socket)

Connector

Connection 1

Type	Plug straight M12
Number of positions	4
Coding type	A (Standard)

Connection 2

Type	Socket straight M12
Number of positions	4
Coding type	A (Standard)

Cable/line

Cable length	1 m

CC-Link [990]

Cable weight	78.8 kg/km
Number of positions	3
Shielded	yes
Cable type	CC-Link [990]
Conductor structure	3xAWG20/7 + 1xAWG22/19 (filler litz wire)
Conductor structure signal line	7x 0.28 mm
AWG signal line	20
Conductor cross section	0.5 mm²
External cable diameter	7.70 mm
Outer sheath, material	PVC
External sheath, color	red
Conductor material	Bare Cu litz wires
Material wire insulation	foamed PE, with high density
Single wire, color	white, yellow, blue
Thickness, insulation	0.89 mm (Outer cable sheath)
Optical shield covering	78 %
Max. conductor resistance	31.2 Ω/km
Wave impedance	110 Ω
Working capacitance	61 pF
Nominal voltage, cable	300 V
Smallest bending radius, fixed installation	77 mm
Ambient temperature (operation)	-30 °C ... 60 °C (cable, fixed installation)
	-5 °C ... 60 °C (Cable, flexible installation)

Environmental and real-life conditions

chanhvinh.com

SAC-4P-M12MS/ 1,0-990/M12FS - Bus system cable

1558425

https://www.phoenixcontact.com/gb/products/1558425

Ambient conditions

Degree of protection	IP65
	IP67
Ambient temperature (operation)	-25 °C ... 90 °C (Plug / socket)

chanhvinh.com

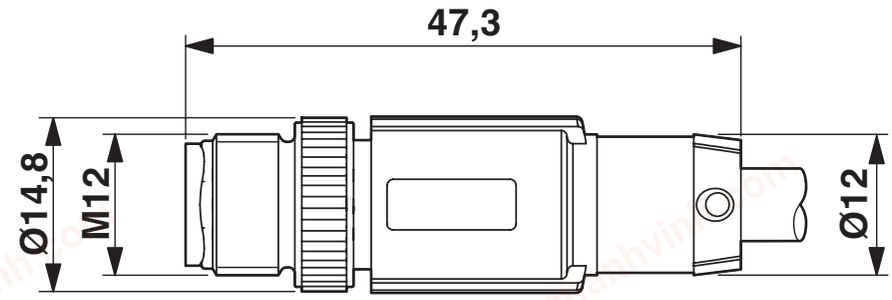
SAC-4P-M12MS/ 1,0-990/M12FS - Bus system cable

1558425

https://www.phoenixcontact.com/gb/products/1558425

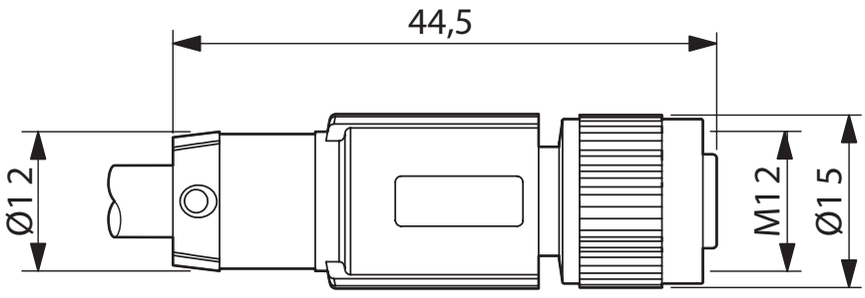
Drawings

Dimensional drawing



Plug, M12 x 1, straight, shielded

Dimensional drawing



M12 x 1 socket, straight, shielded

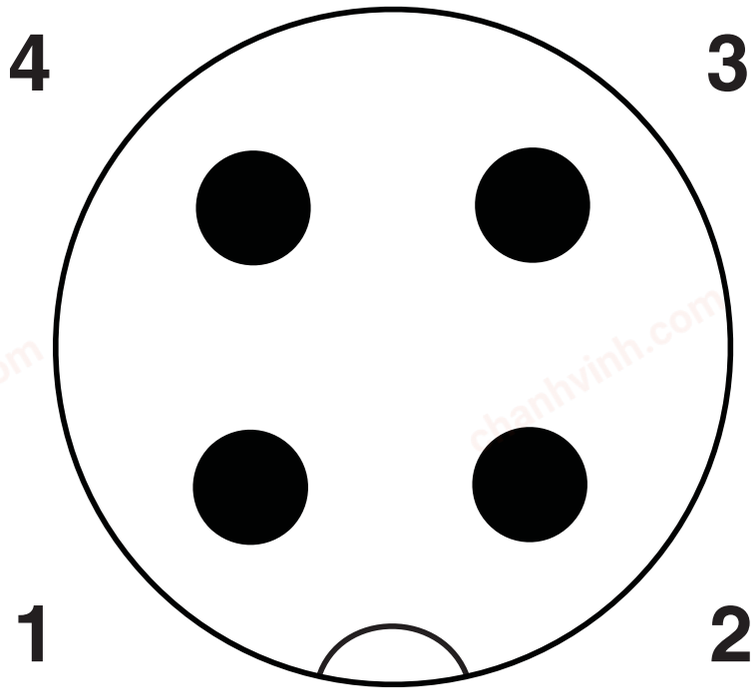
chanhvinh.com

SAC-4P-M12MS/ 1,0-990/M12FS - Bus system cable

1558425

https://www.phoenixcontact.com/gb/products/1558425

Schematic diagram



Pin assignment M12 plug, 4-pos., A-coded, view plug side

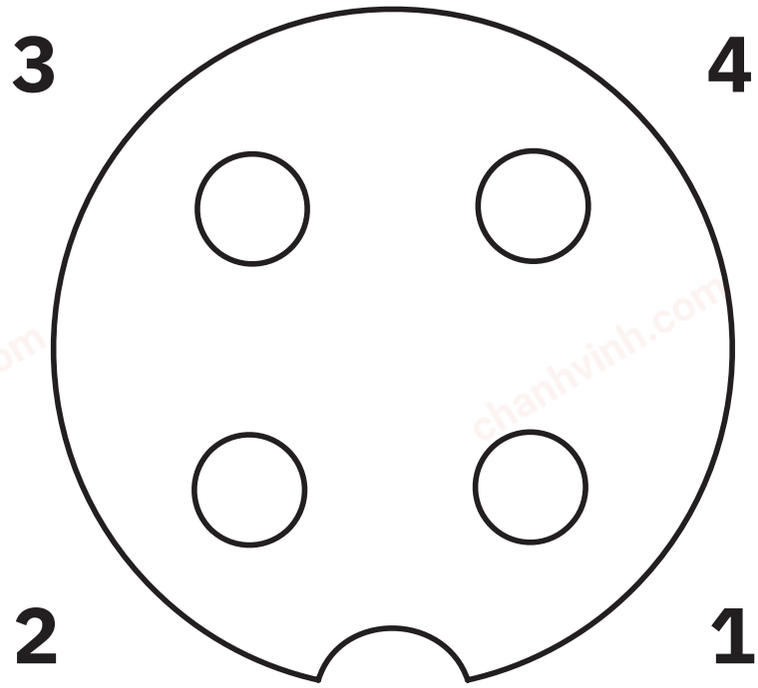
chanhvinh.com

SAC-4P-M12MS/ 1,0-990/M12FS - Bus system cable

1558425

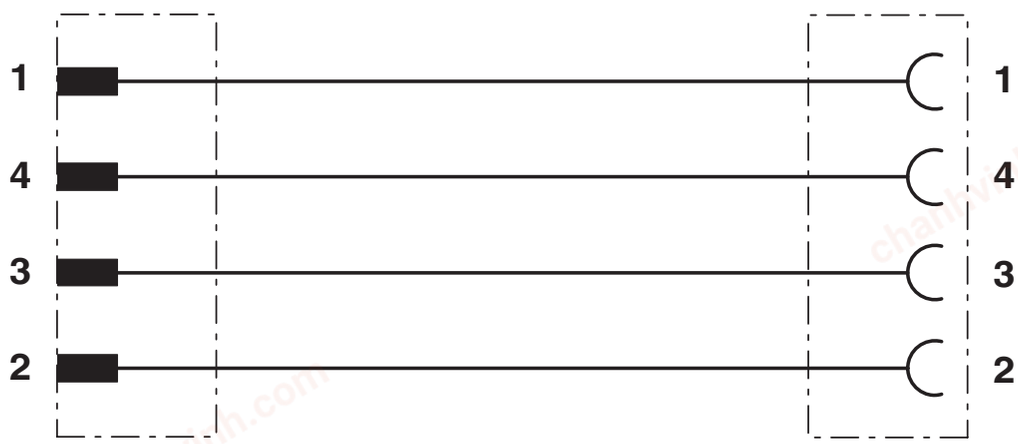
https://www.phoenixcontact.com/gb/products/1558425

Schematic diagram



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

Circuit diagram



Contact assignment of the M12 plug and the M12 socket

chanhvinh.com

SAC-4P-M12MS/ 1,0-990/M12FS - Bus system cable

1558425

https://www.phoenixcontact.com/gb/products/1558425

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/gb/products/1558425

EAC-RoHS
Approval ID: RU D-DE.HB35.B.00387

cULus Listed
Approval ID: E221474

chanhvinh.com

SAC-4P-M12MS/ 1,0-990/M12FS - Bus system cable

1558425

https://www.phoenixcontact.com/gb/products/1558425

Classifications

ECLASS

ECLASS-13.0	27060307

ETIM

ETIM 9.0	EC001855

UNSPSC

UNSPSC 21.0	26121600

chanhvinh.com

SAC-4P-M12MS/ 1,0-990/M12FS - Bus system cable

1558425

https://www.phoenixcontact.com/gb/products/1558425

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%

Phoenix Contact 2025 © - all rights reserved
https://www.phoenixcontact.com

PHOENIX CONTACT Ltd
Halesfield 13, Telford
Shropshire, TF7 4PG
01952 681700
info@phoenixcontact.co.uk