chanhvinh.com

SAC-5P-M12MS/5,0-600 HD - Sensor/actuator cable

1404042

https://www.phoenixcontact.com/gb/products/1404042

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.



Sensor/actuator cable, 5-position, PP-EPDM halogen-free, gray RAL 7035, Plug straight M12, coding: A, on free cable end, cable length: 5 m, Hygienic design, with high-grade steel knurl

Your advantages

- Easy and safe: 100 % electrically tested plug-in components
- Stainless steel type 1.4404 used to provide corrosion protection for all exposed metal parts
- Contamination can be detected quickly – thanks to the light color

Commercial data

Item number	1404042
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF1CDA
Product key	BF1CDA
Catalog page	Page 143 (C-4-2013)
GTIN	4046356677813
Weight per piece (including packing)	174.9 g
Weight per piece (excluding packing)	162.3 g
Customs tariff number	85444290
Country of origin	PL

chanhvinh.com

SAC-5P-M12MS/5,0-600 HD - Sensor/actuator cable

1404042

https://www.phoenixcontact.com/gb/products/1404042

Technical data

Product properties

Product type	Sensor/actuator cable
Application	Food processing industry
Number of positions	5
No. of cable outlets	1
Shielded	no
Coding	A

Data management status

Article revision	03

Insulation characteristics

Overvoltage category	II
Degree of pollution	3

Material specifications

Material of grip body	PP
Contact material	CuSn
Contact surface material	Ni/Au
Contact carrier material	PP
Material for screw connection	Stainless steel

Electrical properties

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

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	≥ 100

Signaling

Status display	no
Status display present	No

Connection data

Conductor connection

Tightening torque	0.4 Nm (M12 connector)

Connector

chanhvinh.com

SAC-5P-M12MS/5,0-600 HD - Sensor/actuator cable

1404042

https://www.phoenixcontact.com/gb/products/1404042

Connection 1

Type	Plug straight M12
Number of positions	5
Coding type	A

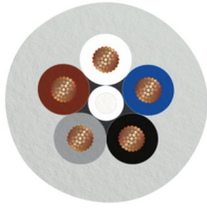
Connection 2

Type	free cable end

Cable/line

Cable length	5 m

Halogen-free PP gray [600]

Dimensional drawing	
Cable weight	34 kg/km
Number of positions	5
Shielded	no
Cable type	Halogen-free PP gray [600]
Conductor structure signal line	42x 0.10 mm
AWG signal line	22
Conductor cross section	5x 0.34 mm² (Signal line)
Wire diameter incl. insulation	1.27 mm ±0.02 mm (Signal line)
External cable diameter	5.00 mm ±0.15 mm
Outer sheath, material	PP-EPDM
External sheath, color	gray RAL 7035
Conductor material	Bare Cu litz wires
Material wire insulation	PP
Single wire, color	brown, white, blue, black, gray
Thickness, insulation	≥ 0.21 mm (Core insulation)
Thickness, outer sheath	approx. 0.70 mm
Overall twist	5 cores, twisted
Length of twist, overall twist	55 mm
Max. conductor resistance	58 Ω/km (at 20 °C)
Nominal voltage, cable	≤ 300 V AC
Test voltage	≥ 3000 V AC
Minimum bending radius, fixed installation	5 x D
Minimum bending radius, flexible installation	10 x D
Smallest bending radius, fixed installation	25 mm

chanhvinh.com

SAC-5P-M12MS/5,0-600 HD - Sensor/actuator cable

1404042

https://www.phoenixcontact.com/gb/products/1404042

Smallest bending radius, movable installation	50 mm
Dynamic load capacity (bending)	Max. bending cycles: 4000000, Bending radius: 10 x D, Traversing path: 10 m, Traversing rate: 3 m/s, Acceleration: 10 m/s²
Dynamic load capacity (torsion)	Torsion: ±270 °/m, Torsion cycles: ≥4000000, Torsional frequency: max.25 Torsion cycles/min
Halogen-free	in accordance with DIN VDE 0472 part 815
Other resistance	Resistant to cold bending and cold impacts (according to DIN EN 60811-1-4 (-40 °C))
Special properties	FDA compliant according to FDA 21 CFR 177.2600
	highly flexible
	Flexible cable conduit capable
Ambient temperature (operation)	-40 °C ... 105 °C (cable, fixed installation)
	-25 °C ... 105 °C (Cable, flexible installation)

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP65
	IP67
	IP68
	IP69K
Ambient temperature (operation)	-40 °C ... 105 °C (Plug / socket)

Standards and regulations

M12

Standard designation	M12 connector
Standards/specifications	IEC 61076-2-101
Standard designation	Material conformance
Standards/specifications	FDA 21 CFR 177.2600

chanhvinh.com

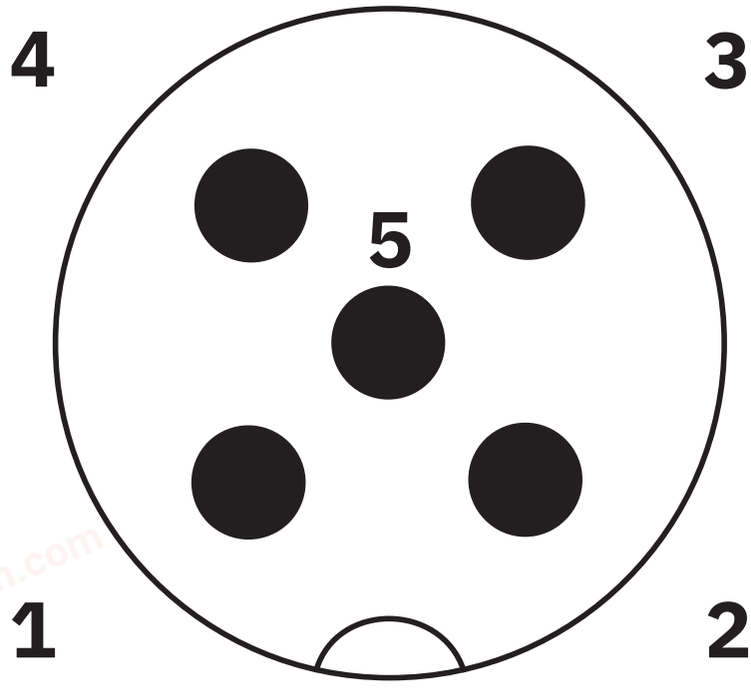
SAC-5P-M12MS/5,0-600 HD - Sensor/actuator cable

1404042

https://www.phoenixcontact.com/gb/products/1404042

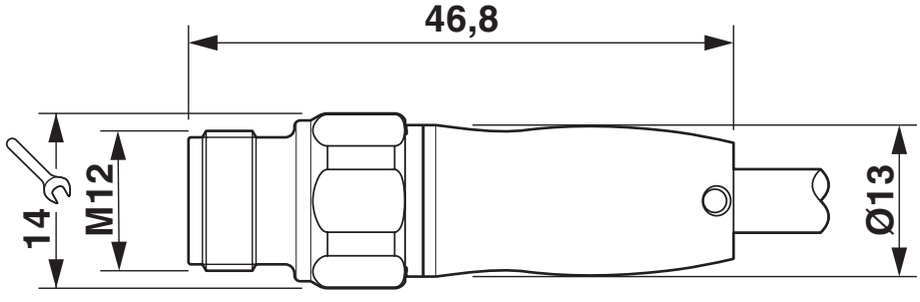
Drawings

Schematic diagram



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

Dimensional drawing



Plug, M12 x 1, straight, shielded

chanhvinh.com

SAC-5P-M12MS/5,0-600 HD - Sensor/actuator cable

1404042

https://www.phoenixcontact.com/gb/products/1404042

Circuit diagram



chanhvinh.com

SAC-5P-M12MS/5,0-600 HD - Sensor/actuator cable

1404042

https://www.phoenixcontact.com/gb/products/1404042

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/gb/products/1404042

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

chanhvinh.com

SAC-5P-M12MS/5,0-600 HD - Sensor/actuator cable

1404042

https://www.phoenixcontact.com/gb/products/1404042

Classifications

ECLASS

ECLASS-11.0	27060311
ECLASS-12.0	27060311
ECLASS-13.0	27060311

ETIM

ETIM 9.0	EC001855

UNSPSC

UNSPSC 21.0	26121600

chanhvinh.com

SAC-5P-M12MS/5,0-600 HD - Sensor/actuator cable

1404042

https://www.phoenixcontact.com/gb/products/1404042

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 2024 © - all rights reserved
https://www.phoenixcontact.com

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