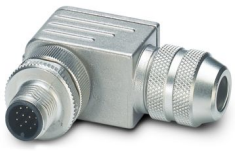
SACC-M12MR-12SOL-PG 9-M SH - Connector

1404412

https://www.phoenixcontact.com/us/products/1404412

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Connector, Universal, 12-position, shielded, Plug angled M12, coding: A, Solder connection, knurl material: Zinc die-cast, nickel-plated, cable gland Pg9, external cable diameter 6 mm ... 8 mm

Your advantages

- Safe use in the field, thanks to a high degree of protection
- Save space – with high-pos. connectors
- Reliable signal transmission – 360° shielding in environments with electromagnetic interference

Commercial data

Item number	1404412
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF32
Product key	AF2CGA
GTIN	4046356693851
Weight per piece (including packing)	64 g
Weight per piece (excluding packing)	62.7 g
Customs tariff number	85366990
Country of origin	DE

Technical data

Notes

Assembly note	NOTE: Observe the permissible bending radii when routing cables, since the degree of protection may be at risk if the bending forces are too high. Reduce mechanical loads upstream of the connector, e.g., by using cable ties.

Mounting

Assembly note	The connector pin assignment can be rotated 90° to the cable outlet

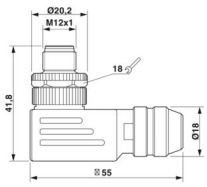
Product properties

Product type	Circular connector (cable-side)
Number of positions	12
No. of cable outlets	1
Shielded	yes
Coding	A
Cable outlet	angled
Pg screw connection	Pg9

Insulation characteristics

Overvoltage category	II
Degree of pollution	3

Dimensions

Dimensional drawing	
Width	20.2 mm
Height	55 mm
Length	41.8 mm

External dimensions

Outside diameter	6 mm ... 8 mm

Housing

Diameter housing	20.2 mm

Material specifications

Flammability rating according to UL 94	HB
Material grommet GRP	NBR
Material of grip body	Zinc die-cast, nickel-plated

Contact material	CuZn
Contact surface material	Au
Contact carrier material	PA
Material for screw connection	Zinc die-cast, nickel-plated

Connection data

Conductor connection

Connection method	Solder connection
Connection cross section	0.08 mm² ... 0.25 mm² (without ferrule)
	0.08 mm² ... 0.25 mm² (solid)
Connection cross section AWG	28 ... 24 (without ferrule)
Stripping length of the individual wire	4 mm
Tightening torque	0.4 Nm (M12 knurl)
	0.8 Nm ... 1 Nm (Pressure screw)

Electrical properties

Rated surge voltage	0.5 kV
Contact resistance	≤ 3 mΩ
Insulation resistance	> 10 GΩ
Nominal voltage U_N	30 V AC
	30 V DC
Nominal current I_N	1.5 A (up to 40 °C)

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	≥ 100

Connector

Connection 1

Head design	Plug
Head cable outlet	angled
Head thread type	M12
Coding	A

Interfaces

Signal type/category	Universal

Environmental and real-life conditions

Ambient conditions

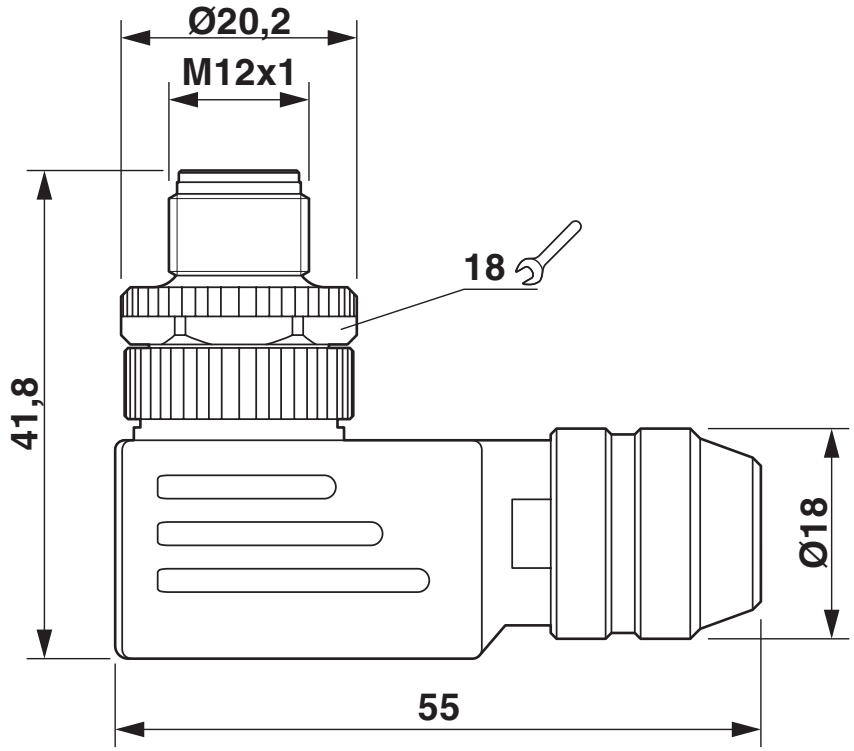
Degree of protection	IP67
Ambient temperature (operation) (male connector/female connector)	-40 °C ... 85 °C (Plug / socket)

Standards and regulations

Standard designation	M12 connector
Standards/specifications	IEC 61076-2-101

Drawings

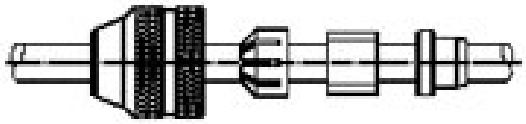
Dimensional drawing



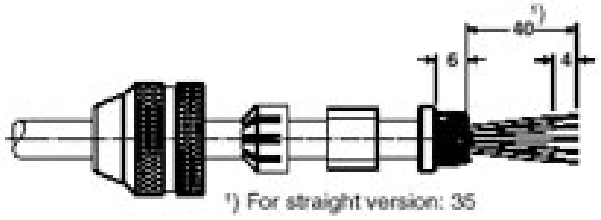
M12 x 1 male plug, angled, shielded

Functional drawing

Assembly steps for M 12 male/female connector and conductor

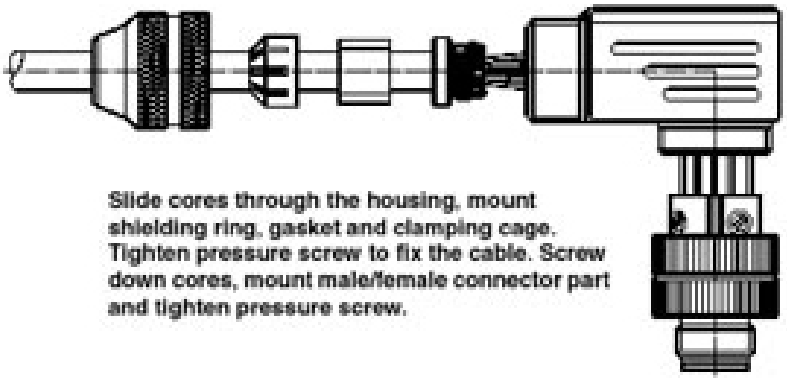


Slide parts onto the conductor



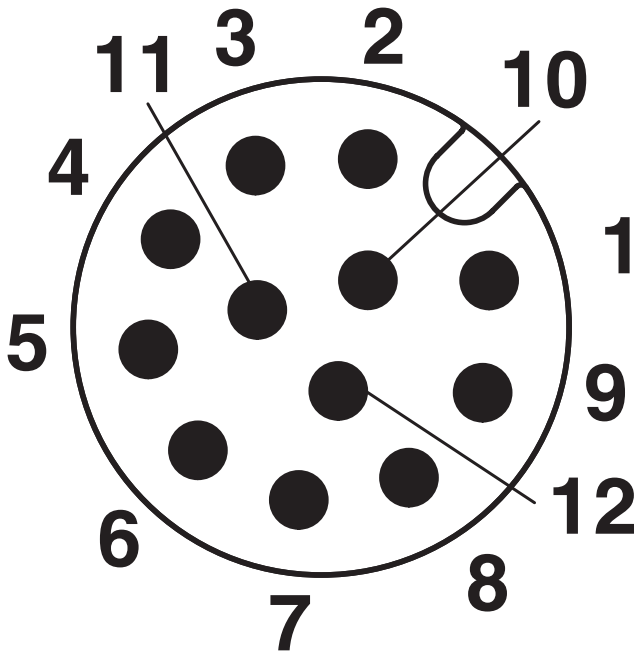
1) For straight version: 35

Strip conductor, widen shield and lay around the shielding ring, cut off projecting mesh.



Slide cores through the housing, mount shielding ring, gasket and clamping cage. Tighten pressure screw to fix the cable. Screw down cores, mount male/female connector part and tighten pressure screw.

Schematic diagram



Pin assignment of M12 male connector, 12-pos., A-coded, view of pin side

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1404412

cUL Recognized
Approval ID: FILE E 221474

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
keine				
	30 V	1 A	-	-

UL Recognized
Approval ID: FILE E 221474

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
keine				
	30 V	1 A	-	-

Classifications

ECLASS

ECLASS-13.0	27440116
ECLASS-15.0	27440116

ETIM

ETIM 10.0	EC002635

UNSPSC

UNSPSC 21.0	39121400

Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	6(c)

China RoHS

Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

EU REACH SVHC

REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
SCIP	f2cd5bf0-ca5e-4592-befd-fb45104b5c9b

EF3.1 Climate Change

CO2e kg	2.805 kg CO2e

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