

Standard sensor cable

with straight M12 connector

CABXX

The XX in the order code means the cable length mentioned below in the Lenght available section e.g. CAB05

Description

Rheonics viscosity and density sensor probes connect to the sensor electronics using a sensor cable. The probes (SRV, SRD, DVP) have an M12 8-pin connector, while the sensor electronics (SME) use an 8-pin terminal connection. Each sensor probe comes with a cable configured according to the specifications in the RFQ (Request for Quotation).

Specifications -

Cable Type

Standard

Insulation material - Sheath

PUR

IP Rating

IP68

Temperature range

- -30°C to 90°C
- -20°F to 190°F

Molded connector

M12 8-pin Female A-coded 90° Straight

Lengths Available

- 5 m (15 ft) CABO5
- 10 m (30 ft) CAB10
- 30 m (90 ft) CAB30
- Custom length (up to 500 m/1500 feet) CAB500





Information tables -

Presented below are the detailed technical specification outlining the characteristics and performance parameters of the 180° standard sensor cable. These data provide information on the cable's electrical, mechanical, and environmental specifications.

Description	
Overview	M12-A Cable Connector, Number of Poles: 8, Shielded, Molded onto Cable, IP68, UL Listed, Black PUR, 8 x 0.25 mm²
Conforming Standards	IEC 61076-2-101
Technical Data	
Connector	
Connection	M12
Cable outlet	Straight
Gender	Female
Number of pins	8
Body color	BLACK
Coding	Α
Contact Material	Metal, CuZn, gold-plated
Contact Body Material	Plastic, TPU, BK
Locking Material	Metal, CuZn, nickel-plated
Contact surface	Plastic, TPU, BK
Wire Cables	
Wire cross-section	8 x 0.25 mm²
Wire colors	WH, BN, GN, YE, GY, PK, BU, RD
Wire color assignment	1 WH, 2 BN, 3 GN, 4 YE, 5 GY, 6 PK, 7 BU, 8 RD
Wire structure	32 x 0.10 mm
Wire insulation material	PP
Outer diameter of jacket	6.30 mm



Cable	
Bending radius (fixed)	5 x Ø-cable
Bending radius (motion)	10 x Ø-cable
Temperature range (mobile)	-25°C+90°C
Temperature range (fixed)	-50°C+90°C
Shielding	Yes
Cable-jacket material	PUR
Cable sheath material	PUR
Cable end assembly	Open cable end
Electrical data	
Rated voltage	30V
Insulation resistance	$\geq 10^{10} \Omega$
Resistance	≤5mΩ
Overvoltage category	II
Insulation material group	II
Insulation material	PP
Mechanical Data	
Degree of Protection	IP68
Mechanical life-cycle	>100 mating cycles
Environmental conditions	
Degree of pollution	3 (Suitable for industrial and harsh environments)
Current load per pin (at 40°C)	Rated for maximum 2A
Halogen-free	Yes
Safety instructions	The connectors are designed for use in plant, control, and electrical device construction. It is the responsibility of the user to verify whether the connectors can be used in other applications. Connectors with protection classes IP68 are not suitable for underwater use. When used outdoors, the connectors must be

additionally protected against corrosion.



Performance

Suited Applications

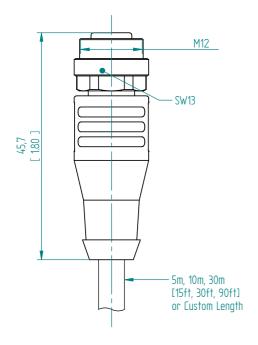
- Robotics
- Machine- tool
- Metal-cutting production

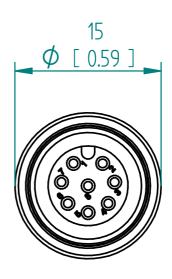
Special features

Flame retardant, halogen free, hydrolysis proof, LABS free, oil resistant, ozone resistant, recyclable, RoHs compliant, acid- and alkali resistant, drag chain-adapted, welding sparks resistant, seawater resistant, silicone free, torsion resistant, UV resistant

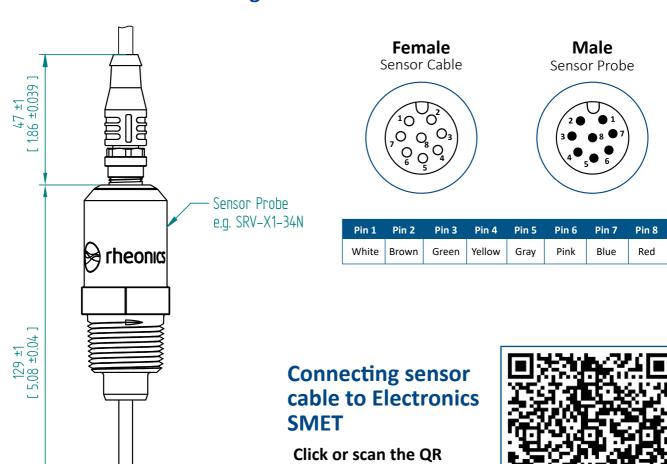


CABXX Sensor Cable and Connector Dimensions





Conector Installation Drawing



Units: : [inch]

to access the full article