

IP69K sensor cable

with straight M12 connector

CABXX-69K

The XX in the order code means the cable length mentioned below in the Length available section e.g. CAB05-69K

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](#)). This sensor cable is rated to be used in a harsh environment (i.e. outdoor, dust, etc).

Specifications

Cable Type

IP69K Cable

Insulation material - Sheath

TPE-S

IP Rating

IP69K

Max. temperature range

 105°C
220°F

Molded connector

 M12 8-pin Female
A-coded Straight

Lengths Available

- 5 m (15 ft) only CAB5-69K



Information tables

Presented below are the detailed technical specification outlining the characteristics and performance parameters of the IP69K sensor cable. These data provide information on the cable's electrical, mechanical, and environmental specifications.

Description

Overview M12, female, A-coded; 8-poles; TPE-S, shielded, free cable end

Technical Data

Connector

Connection	M12
Cable outlet	Straight
Gender	Female
Number of pins	8
Body color	BLUE
Coding	A
Contact Material	Stainless steel
Locking Material	EPDM

Wire Cables

Wire cross-section	8 x 0.25 mm ²
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	6.7 mm ± 5%

Cable

Bending radius (fixed)	min. 7.5 x Ø-cable
Bending radius (motion)	min. 10 x Ø-cable

Temperature range (mobile)	- 20 ...+ 105 °C
Temperature range (fixed)	- 40 ...+ 105 °C
Shielding	Yes
Cable-jacket material	TPE-S
Shielding Material	Copper, tinned
Cable end assembly	free cable end
Rated voltage cable	300 V

Electrical data

Rated voltage	max. 30V
Contact resistance	max. 30 mOhm
Insulation material	PP

Mechanical Data

Degree of Protection	IP69K
Mechanical life-cycle	>100 mating cycles

Environmental conditions

Current load per pin	Rated for maximum 2A
Halogen-free	Yes
Silicone-free cable	Yes
Safety instructions	The connector must not be connected or disconnected under load. Failure to do so or improper use may result in damage to device and personal injury.

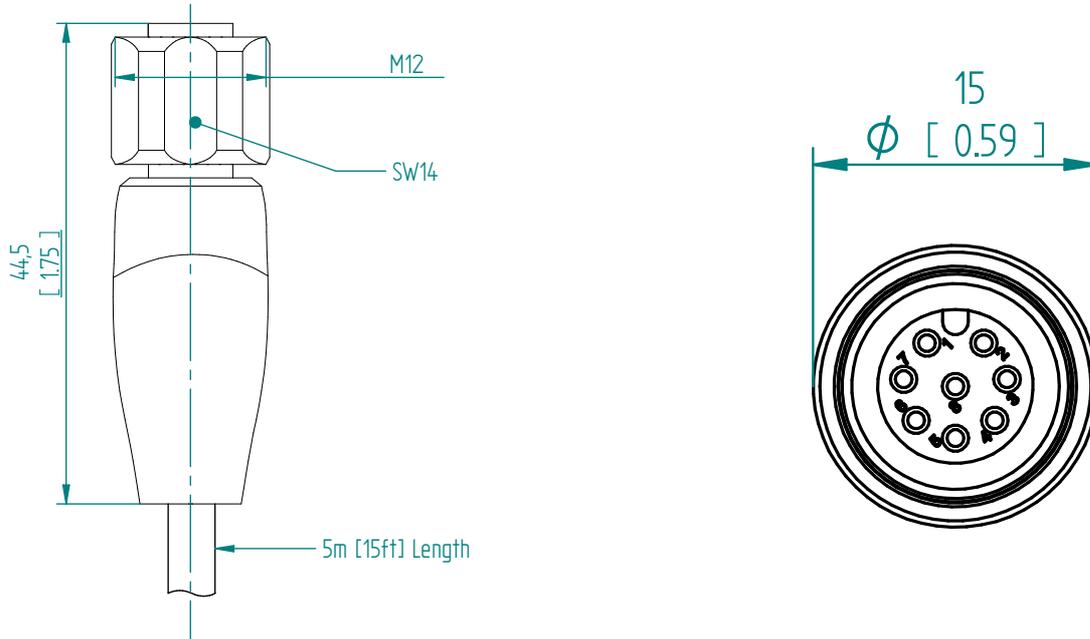
Performance

Special features

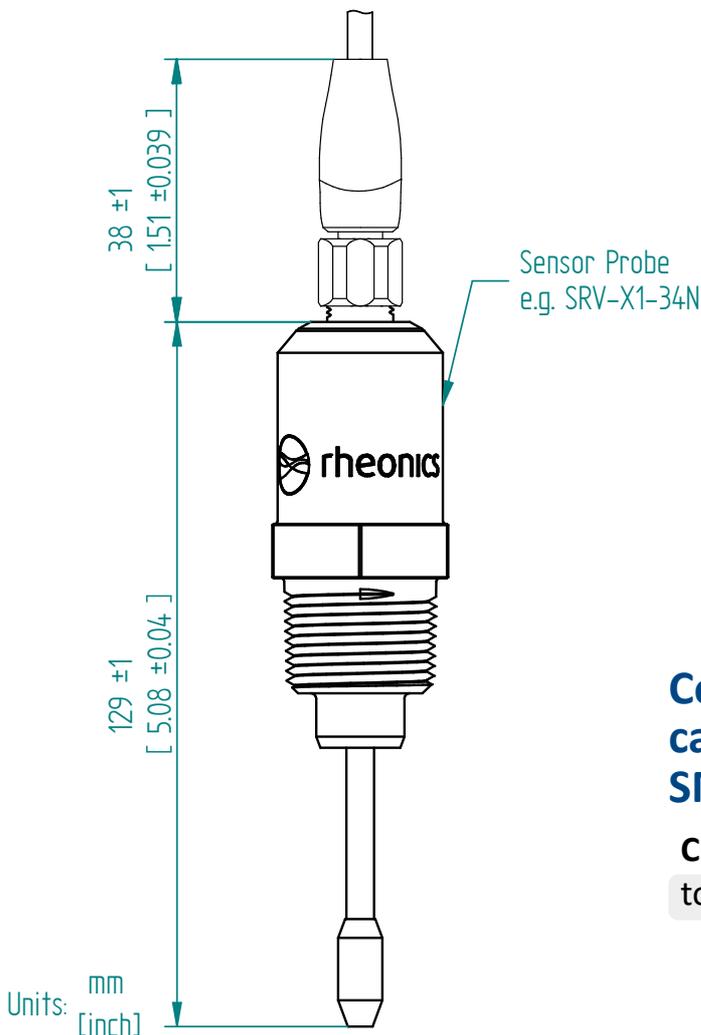
Head

- Chemical resistance tested according to ECOLAB. If other media are used, the material resistance must be tested according to the application.
- **Oil resistance:** ASTM 1 oil, mineral oils, limited to hydraulic oils
- **Flame resistance:** HB (UL 94)
- **Acid and alkali resistant:** ECOLAB tested

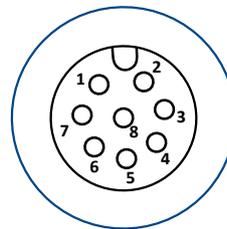
CABXX-IP69K Sensor Cable and Connector Dimensions



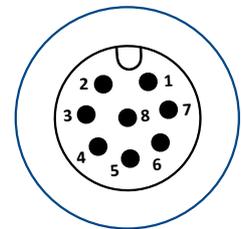
Conector Installation Drawing



Female
Sensor Cable



Male
Sensor Probe



Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8
White	Brown	Green	Yellow	Gray	Pink	Blue	Red

Connecting sensor cable to Electronics SMET

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