High Temperature cable

with straight M12 connector for HT applications

CAB-HT-LXX

The XX in the order code means the cable length mentioned below in the Lenght available section e.g. CAB-HT-L05

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 High temperature environment until 150°C.

Specifications

Cable Type

High Temperature

Insulation material - Sheath

PTFE

IP Rating

IP65

Max. temperature range

-20°C to 150°C
-4°F to 300°F

Molded connector

M12 8-pin Female
A-coded straight



Lengths Available

- 5 m (15 ft) only CAB5-HT

Information tables

Presented below are the detailed technical specification outlining the characteristics and performance parameters of the High Temperature 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, IP65, White PTFE, 8 x AWG24

Technical Data

Connector

Connection	M12
Cable outlet	180°
Gender	Female and Male
Number of pins	8
Body color	WHITE
Coding	A
Contact Material	Metal, CuZn, gold-plated
Contact Body Material	Plastic, PBT GF, BK
Locking Material	Metal, CuZn, nickel-plated
Contact surface	Plastic, PBT GF, BK

Wire Cables

Wire cross-section	8 x AWG24
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	19 x 0.127 mm
Wire insulation material	PTFE
Outer diameter of jacket	4.70 mm

Cable

Bending radius (fixed)	5 x Ø-cable
Bending radius (motion)	10 x Ø-cable
Temperature range (fixed)	-20°C...+150°C
Cable-jacket material	PTFE
Cable sheath material	PTFE
Cable end assembly	M12 8-pin Male, A-coded
Rated voltage cable	≤250 V

Electrical data

Rated voltage	30V
Insulation resistance	≥ 10^8 Ω
Insulation material	PTFE

Mechanical Data

Degree of Protection	IP65
Mechanical life-cycle	>100 mating cycles

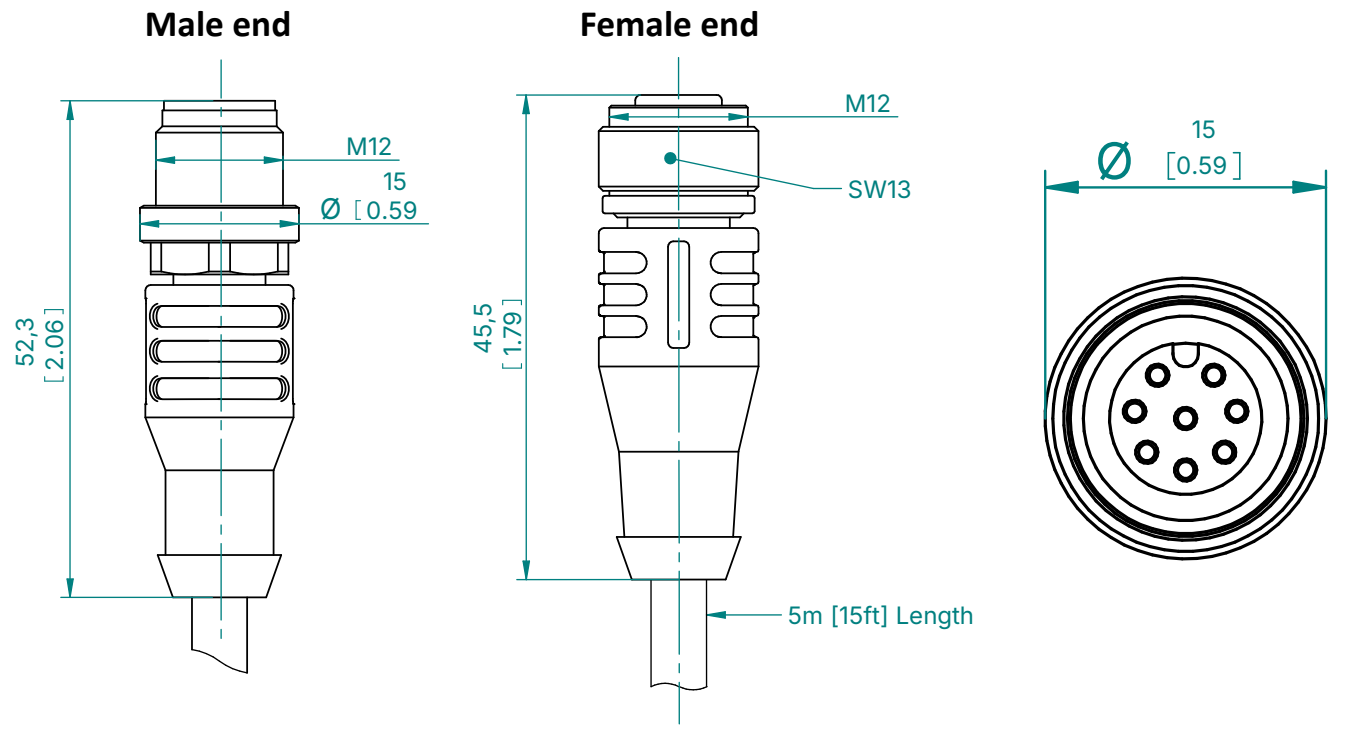
Environmental conditions

Degree of pollution	3 (Suitable for industrial and harsh environments)
Current load per pin (at 40°C)	Rated for maximum 2A
Safety instructions	The connector must not be connected or disconnected when cirquit is alive. Failure to do so or improper use may result in damage to device and personal injury.

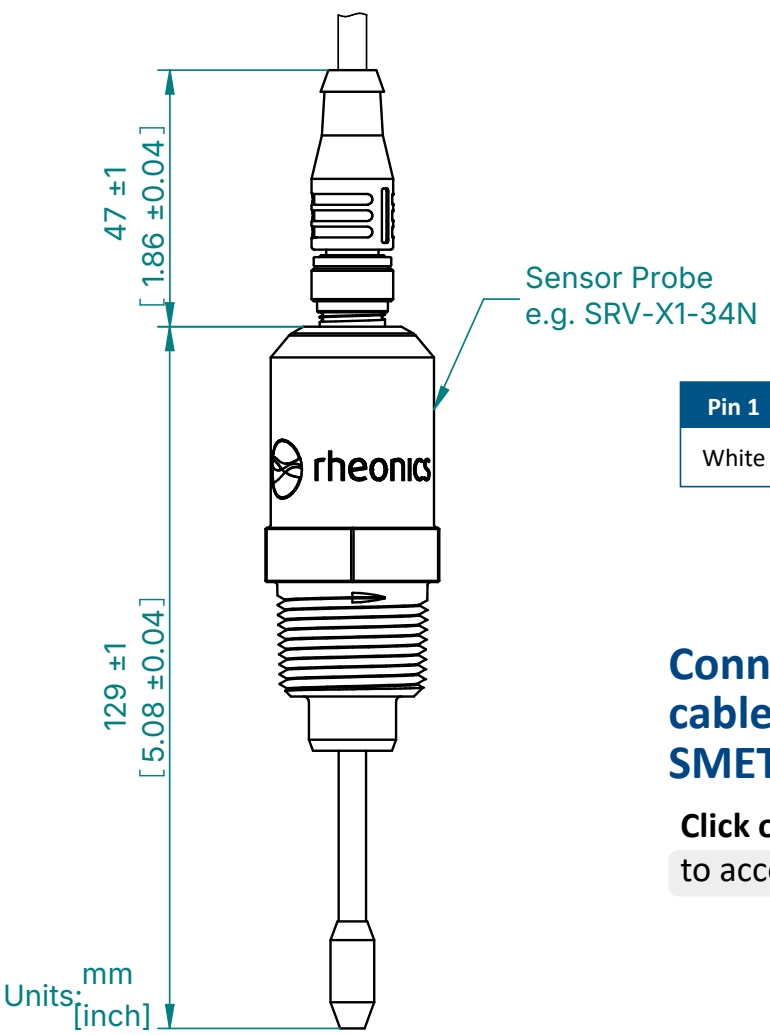
Performance

Special features	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 IP65 are not suitable for underwater use. When used outdoors, the connectors must be additionally protected against corrosion.

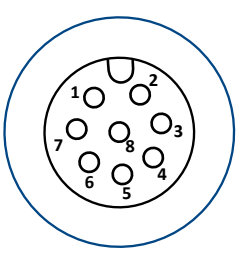
CABXX-HT Sensor Cable and Connector Dimensions



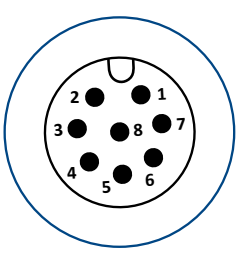
Conector Installation Drawing



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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