

# High Temperature cable

## with straight M12 connector for HT applications

### CABXX-HT

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

## 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

150°C

300°F

### Molded connector

M12 8-pin Female  
A-coded 90° Angled

## 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

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

#### Wire Cables

|                                 |  |
|---------------------------------|--|
| <b>Wire cross-section</b>       | 8 x AWG24                                      |
| <b>Wire colors</b>              | WH, BN, GN, YE, GY, PK, BU, RD                 |
| <b>Wire color assignment</b>    | 1 WH, 2 BN, 3 GN, 4 YE, 5 GY, 6 PK, 7 BU, 8 RD |
| <b>Wire structure</b>           | 19 x 0.127 mm                                  |
| <b>Wire insulation material</b> | PTFE   |
| <b>Outer diameter of jacket</b> | 4.70 mm  |

## Cable

|                           |                         |
|---------------------------|-------------------------|
| Bending radius (fixed)    | 5 x $\emptyset$ -cable  |
| Bending radius (motion)   | 10 x $\emptyset$ -cable |
| Temperature range (fixed) | -20°C...+150°C          |
| Cable-jacket material     | PTFE                    |
| Cable sheath material     | PTFE                    |
| Cable end assembly        | 50mm stripped           |
| Rated voltage cable       | $\leq 250$ V            |

## Electrical data

|                           |                        |
|---------------------------|------------------------|
| Rated voltage             | 30V                    |
| Insulation resistance     | $\geq 10^8 \Omega$     |
| Resistance                | $\leq 5\text{m}\Omega$ |
| Insulation material group | IIa                    |
| Insulation material       | PTFE                   |

## Mechanical Data

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

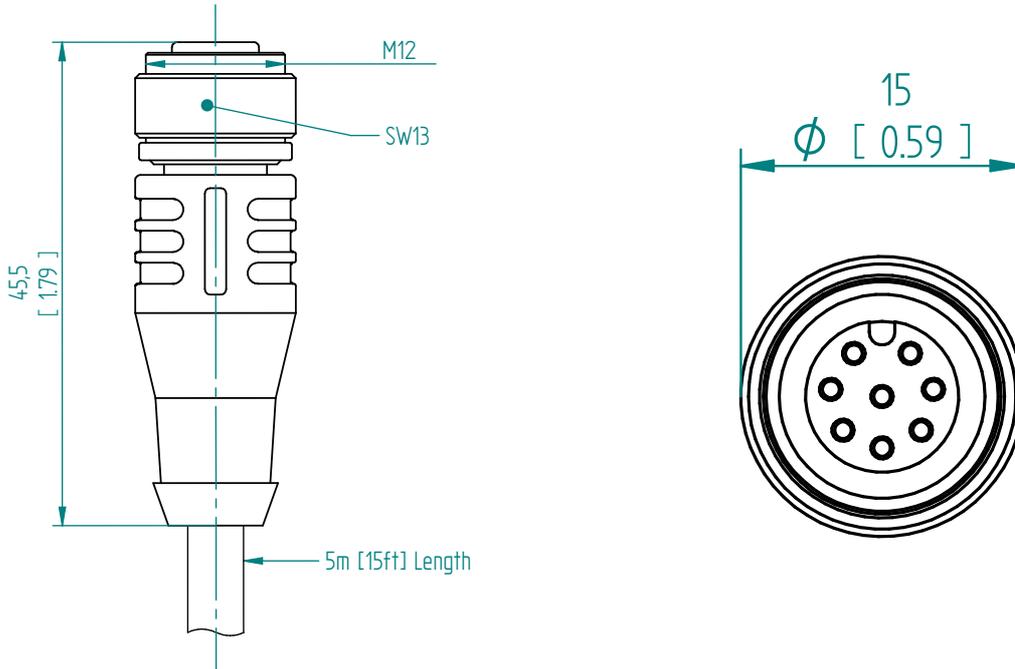
## Environmental conditions

|                                |  |
|--------------------------------|--|
| 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 under load. Failure to do so or improper use may result in damage to device and personal injury. |

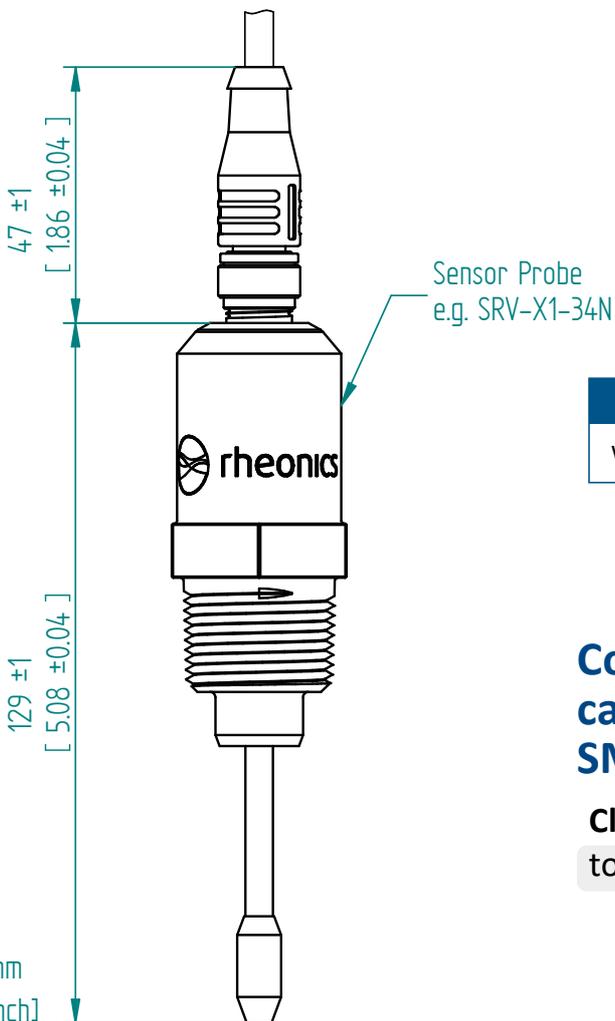
## Performance

|                  |  |
|------------------|--|
| 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 IP 68 are not suitable for underwater use. When used outdoors, the connectors must be additionally protected against corrosion. |
|------------------|--|

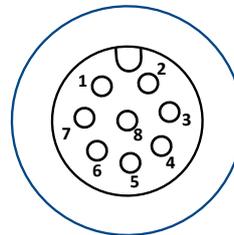
## CABXX-HT Sensor Cable and Connector Dimensions



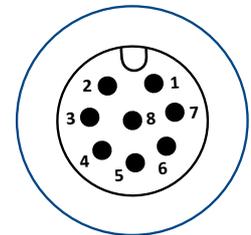
## Connector Installation Drawing



**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

Click or scan the QR to access the full article



Units: mm  
[inch]