ARMOR CABLE

LENGTH

Sheath

Style

OPTIONS

SHEATH

LENGTH

SHEATH WITH LEADWIRE AND ARMOR

SHEATH

DIAMETER

How to build a part number:

ASSEMBLY

STYLE

SENSOR

TYPE

To order an Applied Sensor Technologies temperature sensor, select the requirements for the categories listed below and fill in the corresponding boxes with your selection. Don't see exactly what you need? Give us a call!

CALIBRATION

JUNCTION

SHEATH

MATERIAL

| | 311111 | DIAMETER | WITTER | | JONETION | LLINOIII | LLINOIII | |
|----------------------------|--|---------------------|-------------------|-------------|----------------|------------------------|---------------------------|-----------------------|
| | | | | | | | | |
| SENSOR TYPE* | | | | | u- | | 11—— | u |
| | oose thermocouple | | | | N f | | MA I | M I |
| MI – Mineral insu | lated thermocouple | 9 | | | | | | |
| ASSEMBLY STYL | _ | | | | W [:] | | | |
| | h leadwire and fl d conductors; fiber | | steel armor cable | e ; | [·] [2] | 6" | 6" | 6" |
| | ed armor, Teflon®- | | nrs | | × | | | |
| | ated armor, Teflo | | | | | | | |
| SHEATH DIAME | TER (in inches) | | | | | | | |
| 4 – 1/8 (0.125) | (III IIIciics) | | | | - F | - } | <u>~</u> | <u></u> В—— |
| 6 – 3/16 (0.188) | | | | | [4] | Ī | | |
| 7 – 1/4 (0.250) | | | | | | | 日 | 日 |
| 9 – 3/8 (0.375) | | | | | | | H I | 月1 |
| , , | | | | | | mor Cable ength (X) | Armor Cable Length (X) | |
| SHEATH MATER | IAL | | | | RMOR | I (x) | H Length (x) | 딝 |
| 3 – 316 stainless s | steel | | | | | | 月 | Armor Cab |
| 5 – Inconel® 600 | (MI only) | | | | [-, | | 异 | A L |
| CALIBRATION S | tandard limits | | | | <u> </u> | | 보 | 걸 |
| J – Single J | JJ – Dual J | | | | | Ī l | • 1 | 뭐 |
| K – Single K | KK – Dual K | | | | 1', ' 1 | | | 日 |
| T – Single T | π – Dual T | | | | [' | 1.90 | 1.90 | ⇒↓ |
| E – Single E | EE – Dual E | | | | /_' _, | 1 | 1.50 | $H \longrightarrow H$ |
| Special limits are o | available – consult | AST | | MOISTURE SI | | | | |
| Dual junction not | available with GP | thermocouples in si | heath diameter 4 | (100°C MA) | '' <u> </u> _ | | | |
| HOT JUNCTION | | | | | | Î | 1 1 | |
| G – Grounded jun | ction | | | | | | | |
| U – Unarounded i | unction | | | | | | | Sheath |

U – Ungrounded junction

E – Exposed junction

SHEATH LENGTH (Note: maximum L=96" for GP; for MI, lengths over L84 will be shipped coiled unless otherwise specified)

L# - (e.g., L6 = 6 inch sheath, L12.5 = 12.5 inch length)

ARMOR CABLE LENGTH

X# - (e.g., X72 = 72 inch length)

OPTIONS – see back page

*Note: GP thermocouples, manufactured using hollow tubing and wire, tend to be lower cost than MI, but cannot be bent in the field and are standardly designed for sensing temperatures below 500°F. MI thermocouples are more rugged than GP due to compacted magnesium-oxide powder insulation, can be bent in the field, and are appropriate for the temperature range of the sensor and sheath.

Sheath

Style

MI03P & MI03T

Length (L)

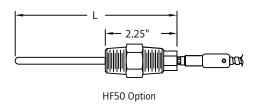
Style GP03

AVAILABLE OPTIONS and MODIFICATIONS

| WIRING CONNI | ECTION OPTIONS |
|------------------|---|
| WC76 | #6 spade terminals, plated copper |
| WC70 | #10 spade terminals, plated copper |
| WC84 | 1/4" push-on insulated terminals, plated copp |
| WC90 | #10 ring terminals |
| WC98 | #8 ring terminals |
| assemblies. Jack | CKS (Note: plug is designed to be attached to sensor options – for customer wiring – should only be specified also included. Cable clamp is included for both plug and |
| РЈ10 | Standard plug, rated to 177°C (350°F) |
| PJ20 | Standard jack, rated to 177°C (350°F) |
| PJ30 | Miniature plug, rated to 177°C (350°F) |
| PJ40 | Miniature jack, rated to 177°C (350°F) |
| PJ50 | High temp. plug, rated to 260°C (500°F) |
| PJ60 | High temp. jack, rated to 260°C (500°F) |
| BX CONNECTO | RS |
| WC40 | 1/2" |
| WC50 | 3/4" |
| WELD PADS | |
| WP00 | Horizontal pad/flat |
| WP10 | 1" nominal pipe size |
| WP15 | 1.5" nominal pipe size |
| WP20 | 2" nominal pipe size |
| WP25 | 2.5" nominal pipe size |
| WP30 | 3" nominal pipe size |
| WP35 | 3.5" nominal pipe size |

EXTENSION WIRE

A selection of extension-grade thermocouple wire is available to connect the sensor to its input device. Consult Accessories section.



| ΓIONS | | | | | | | |
|-----------------|---|---|--|--|--|--|--|
| | Description | | | | | | |
| TAG1 | | Stainless steel tag and wire | | | | | |
| В90- | | 90° bend in sheath (specify length from tip in inches e.g., B90-6) | | | | | |
| B45- | | 45° bend in sheath (specify length from tip in inches e.g., B45-6) | | | | | |
| CAL1 | | NIST traceable calibration [specify point(s)] | | | | | |
| CRT1 | | Certificate of conformance | | | | | |
| HT10 | | High temperature (900°F) transition. (Standard transition rated 500°F/260°C) | | | | | |
| I FITTIN | IGS | | | | | | |
| Option Code NPT | | Material | Ferrule | | | | |
| CF10 1/8 | | Stainless steel | Stainless steel | | | | |
| CF11 1/8 | | Stainless steel | Teflon® | | | | |
| CF12 1/8 | | Brass | Brass | | | | |
| CF20 1/4 | | Stainless steel | Stainless steel | | | | |
| 1/4 | n | Stainless steel | Teflon® | | | | |
| CF22 1/4 | | Brass | Brass | | | | |
| CF30 1/2 | | Stainless steel | Stainless steel | | | | |
| CF31 1/2 | | Stainless steel | Teflon® | | | | |
| CF32 1/2 | | Brass | Brass | | | | |
| D ARM | OR OPTIONS | | | | | | |
| | | ayonet cap on armor, no spring, GP styles only formerly Style 25) | | | | | |
| bly with | sheath, armor | and terminal head | d, see Style 65. | | | | |
| ED FITT | INGS | | | | | | |
| on-seale | ed, for sensor c | liameters 6, 7 & 9 | | | | | |
| Option Code D | | escription | | | | | |
| D | escription | | | | | | |
| | NPT 1/8 1/8 1/8 1/4 1/4 1/2 1/2 1/2 D ARM B (f | Description Stainless stee 90° bend in inches e.g., B 45° bend in inches e.g., B NIST traceab Certificate of High temper transition rat I FITTINGS NPT 1/8" 1/8" 1/4" 1/4" 1/4" 1/2" 1/2" 1/2" D ARMOR OPTIONS Bayonet cap on (formerly Style) bly with sheath, armor | Description Stainless steel tag and wire 90° bend in sheath (specify ler inches e.g., B90-6) 45° bend in sheath (specify ler inches e.g., B45-6) NIST traceable calibration [specify ler inches e.g., B45-6) Territory NPT Material 1/8" Stainless steel 1/8" Stainless steel 1/8" Stainless steel 1/4" Stainless steel 1/4" Stainless steel 1/4" Stainless steel 1/2" Stainless steel | | | | |

Fitting position is adjustable in the field.

Fitting reduces effective sensor L length by 2.25" (e.g., to properly spring-load into a 9" well, the sensor should be specified with 11.25"

HF51 Notes:

minimum).