

NEMA 4 CONNECTION HEAD WITH FLEXIBLE ARMOR CABLE

How to build a part number:

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!

| SENSOR TYPE | ASSEMBLY STYLE | SHEATH DIAMETER | SHEATH MATERIAL | CALIBRATION | HOT JUNCTION | SHEATH LENGTH | ARMOR LENGTH | OPTIONS |
|-------------|----------------|-----------------|-----------------|-------------|--------------|---------------|--------------|---------|
| | | | | | | | | |

SENSOR TYPE

MI – Mineral insulated thermocouple

ASSEMBLY STYLE*

65 – Cast aluminum head with flexible 0.250" stainless steel armor cable; head conforms to NEMA 4 requirements; 3/4" NPT conduit connection; ceramic terminal block; gasketed screw cover with stainless steel chain; fiberglass leadwire and jacket

65P – PVC coated armor, Teflon insulated conductors

65T – Teflon coated armor, Teflon insulated conductors

SHEATH DIAMETER (in inches)

4 – 1/8 (0.125)

6 – 3/16 (0.188)

7 – 1/4 (0.250)

9 – 3/8 (0.375)

SHEATH MATERIAL

3 – 316 stainless steel

5 – Inconel® 600

CALIBRATION – Standard limits

J – Single J

JJ – Dual J

K – Single K

KK – Dual K

T – Single T

TT – Dual T

E – Single E

EE – Dual E

Special limits are available – consult AST

HOT JUNCTION

G – Grounded junction

U – Ungrounded junction

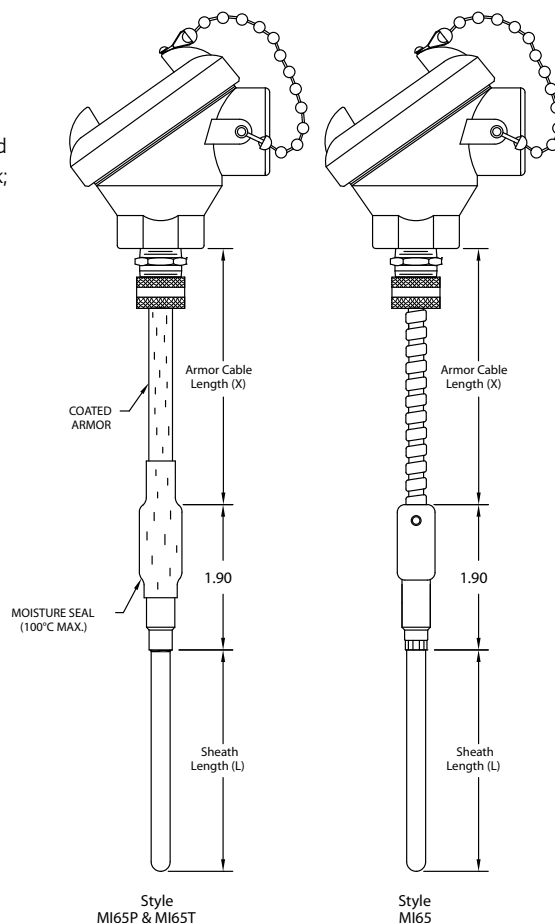
SHEATH LENGTH (Note: lengths over L84 will be shipped coiled unless otherwise specified at time of order)

L# – Specify overall length of sheath (e.g., L12 = 12" from tip to transition)

ARMOR LENGTH

X# – Specify overall length of flexible armor (e.g., X72 = 72" from terminal head to transition)

OPTIONS – see back page



* **NOTE:** Transition on Style 65 standardly rated for 500°F/260°C. Styles 65P & 65T rated to 212°F/100°C. For 900°F rating on Style 65, see option HT10.

STYLE 65

AVAILABLE OPTIONS and MODIFICATIONS

| ASSEMBLY OPTIONS | | | |
|---|---|-----------------|-----------------|
| Option Code | Description | | |
| TAG1 | Stainless steel tag and wire | | |
| B90- | 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 (available on MI65 only) | | |
| RB10 | Replace terminal block with customer supplied part. | | |
| RB11 | Supply assembly with no terminal block inside head. | | |
| WC20 | Wiring cable gland for 0.187 - 0.312 diameter cables, for terminal heads with 1/2" NPT conduit connections | | |
| WC21 | Wiring cable gland for 0.125 - 0.187 diameter cables, for terminal heads with 1/2" NPT conduit connections | | |
| TRANSMITTERS – For complete specs, see Transmitters section | | | |
| TR11 | 4-20 mA, 2-wire transmitter, single input, isolated output; specify range, units of measure (e.g., 0-200°C) and optional terminal head with *. | | |
| TR12 | 4-20 mA, 2-wire transmitter, single input, non-isolated output; specify range and units of measure (e.g., 0-200°C) and terminal head with *. | | |
| TR13 | HART®/ 4-20 mA, 2-wire transmitter, single input, isolated output; specify range and units of measure (e.g., 0-200°C) and terminal head with *. | | |
| COMPRESSION FITTINGS | | | |
| 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 |
| CF21 | 1/4" | 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 |

| NEMA 4 OR 4X TERMINAL HEAD OPTIONS | | | |
|--|---------------------------------|--------------------|--------------------|
| Head without ground screw | Head with internal ground screw | Process Connection | Conduit Connection |
| Cast aluminum, screw cover with chain, NEMA 4 | | | |
| HD10* | HD11 * | 1/2" | 1/2" |
| Std.* | HD13* | 1/2" | 3/4" |
| Epoxy-coated aluminum, screw cover with chain, NEMA 4X | | | |
| HD50* | HD51 * | 1/2" | 1/2" |
| HD52* | HD53* | 1/2" | 3/4" |
| Cast iron, screw cover with chain, NEMA 4 | | | |
| HD20* | HD21 * | 1/2" | 1/2" |
| HD22* | HD23 * | 1/2" | 3/4" |
| 316 stainless steel, screw cover with chain, NEMA 4X | | | |
| HD40* | HD41 * | 1/2" | 3/4" |
| White polypropylene, screw cover with chain, NEMA 4 | | | |
| HD30 | N/A | 1/2" | 3/4" |
| Black polypropylene, screw cover with chain, NEMA 4 | | | |
| HD31 | N/A | 1/2" | 3/4" |
| Nylon, screw cover | | | |
| HD32 | N/A | 1/2" | 1/2" |
| *can be used with transmitters | | | |

Notes:

1. See Accessories for additional information.

| 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 |
| WP40 | 4.0" nominal pipe size |