

Industrial Thermocouple Protection Head Probe Assemblies



Low Profile NB12

Material:
Alloy-Aluminum
Weight: 274 g (9.7 oz)
Dimensions:
H=87 mm (3.4")
C=82 mm (3.2")
IP67 Approval

Miniature Bakelite NB10

Material: Bakelite
Weight: 82 g (2.9 oz)
Dimensions:
H=68 mm (2.7")
C=61.5 mm (2.4")
O-Ring Seal

Available!
Probes with
Built-In
Transmitters!



Miniature Aluminum NB11

Material: Alloy-Aluminum
Weight: 140 g (4.9 oz)
Dimensions:
H=67 mm (2.6")
C=62 mm (2.4")
IP67 Approval



- ✓ NB1 Cast-Iron Protection Head with Internal Terminal Block
- ✓ NB2 Miniature Aluminum Head with Internal Terminal Block
- ✓ NB3 Aluminum Head Features Convenient Snap-Lock Design with Internal Terminal Block
- ✓ NB4 Subminiature Aluminum Head with Internal Terminal Block
- ✓ ½ NPT Mounting Thread
- ✓ 12" Length Standard†

Standard Dimensions

The industrial-style assemblies offer a variety of protection heads to meet the environmental and size requirements of most applications. They are available in J, K, T, E, or N calibrations, with 304 SS, 316 SS, 321 SS, Super OMEGA CLAD® XL, or Inconel® sheathing. Standard lengths are 12", including ½" for the pipe thread, with other lengths available. Both the thread on the probe and the extension-wire opening are ½ NPT. The NB2 and NB4 include a compression fitting nut and rubber ferrule for ⅜ to ¼" OD wires or tubing. The internal terminal block is standard on all models.



PFA Coating Available.
Consult Sales

To Order 12" Lengths

Alloy/ANSI Color Code	Sheath Dia. (inch)	Grounded Junction	Ungrounded Junction	Exposed Junction
Iron-Constantan Inconel® Sheath J	⅛ ⅙ ⅜ ¼	NB(*)-ICIN-116G-12 NB(*)-ICIN-18G-12 NB(*)-ICIN-316G-12 NB(*)-ICIN-14G-12	NB(*)-ICIN-116U-12 NB(*)-ICIN-18U-12 NB(*)-ICIN-316U-12 NB(*)-ICIN-14U-12	NB(*)-ICIN-116E-12 NB(*)-ICIN-18E-12 NB(*)-ICIN-316E-12 NB(*)-ICIN-14E-12
Iron-Constantan 304 SS Sheath J	⅛ ⅙ ⅜ ¼	NB(*)-ICSS-116G-12 NB(*)-ICSS-18G-12 NB(*)-ICSS-316G-12 NB(*)-ICSS-14G-12	NB(*)-ICSS-116U-12 NB(*)-ICSS-18U-12 NB(*)-ICSS-316U-12 NB(*)-ICSS-14U-12	NB(*)-ICSS-116E-12 NB(*)-ICSS-18E-12 NB(*)-ICSS-316E-12 NB(*)-ICSS-14E-12
CHROMEALLOY®- ** ALOMEGA® Inconel® Sheath K	⅛ ⅙ ⅜ ¼	NB(*)-CAIN-116G-12 NB(*)-CAIN-18G-12 NB(*)-CAIN-316G-12 NB(*)-CAIN-14G-12	NB(*)-CAIN-116U-12 NB(*)-CAIN-18U-12 NB(*)-CAIN-316U-12 NB(*)-CAIN-14U-12	NB(*)-CAIN-116E-12 NB(*)-CAIN-18E-12 NB(*)-CAIN-316E-12 NB(*)-CAIN-14E-12
CHROMEALLOY®- ** ALOMEGA® 304 SS Sheath K	⅛ ⅙ ⅜ ¼	NB(*)-CASS-116G-12 NB(*)-CASS-18G-12 NB(*)-CASS-316G-12 NB(*)-CASS-14G-12	NB(*)-CASS-116U-12 NB(*)-CASS-18U-12 NB(*)-CASS-316U-12 NB(*)-CASS-14U-12	NB(*)-CASS-116E-12 NB(*)-CASS-18E-12 NB(*)-CASS-316E-12 NB(*)-CASS-14E-12
CHROMEALLOY®- Constantan Inconel® Sheath E	⅛ ⅙ ⅜ ¼	NB(*)-CXIN-116G-12 NB(*)-CXIN-18G-12 NB(*)-CXIN-316G-12 NB(*)-CXIN-14G-12	NB(*)-CXIN-116U-12 NB(*)-CXIN-18U-12 NB(*)-CXIN-316U-12 NB(*)-CXIN-14U-12	NB(*)-CXIN-116E-12 NB(*)-CXIN-18E-12 NB(*)-CXIN-316E-12 NB(*)-CXIN-14E-12
CHROMEALLOY®- Constantan 304 SS Sheath E	⅛ ⅙ ⅜ ¼	NB(*)-CXSS-116G-12 NB(*)-CXSS-18G-12 NB(*)-CXSS-316G-12 NB(*)-CXSS-14G-12	NB(*)-CXSS-116U-12 NB(*)-CXSS-18U-12 NB(*)-CXSS-316U-12 NB(*)-CXSS-14U-12	NB(*)-CXSS-116E-12 NB(*)-CXSS-18E-12 NB(*)-CXSS-316E-12 NB(*)-CXSS-14E-12
Copper-Constantan Inconel® Sheath T	⅛ ⅙ ⅜ ¼	NB(*)-CPIN-116G-12 NB(*)-CPIN-18G-12 NB(*)-CPIN-316G-12 NB(*)-CPIN-14G-12	NB(*)-CPIN-116U-12 NB(*)-CPIN-18U-12 NB(*)-CPIN-316U-12 NB(*)-CPIN-14U-12	NB(*)-CPIN-116E-12 NB(*)-CPIN-18E-12 NB(*)-CPIN-316E-12 NB(*)-CPIN-14E-12
Copper-Constantan 304 SS Sheath T	⅛ ⅙ ⅜ ¼	NB(*)-CPSS-116G-12 NB(*)-CPSS-18G-12 NB(*)-CPSS-316G-12 NB(*)-CPSS-14G-12	NB(*)-CPSS-116U-12 NB(*)-CPSS-18U-12 NB(*)-CPSS-316U-12 NB(*)-CPSS-14U-12	NB(*)-CPSS-116E-12 NB(*)-CPSS-18E-12 NB(*)-CPSS-316E-12 NB(*)-CPSS-14E-12
OMEGAALLOY®- NICROSIL-NISIL Inconel Sheath N	⅛ ⅙ ⅜ ¼	NB(*)-NNIN-116G-12 NB(*)-NNIN-18G-12 NB(*)-NNIN-316G-12 NB(*)-NNIN-14G-12	NB(*)-NNIN-116U-12 NB(*)-NNIN-18U-12 NB(*)-NNIN-316U-12 NB(*)-NNIN-14U-12	NB(*)-NNIN-116E-12 NB(*)-NNIN-18E-12 NB(*)-NNIN-316E-12 NB(*)-NNIN-14E-12

Note: PFA coating is available, 400°F (204°C) max. † Other lengths available, consult Sales Department.

* Insert the number "1" through "12" for NB1, NB2, NB3, NB4, NB5, NB6, NB7, NB8, NB9, NB10, NB11 or NB12 heads, respectively.

** For highest temperature and stability rating, change "SS" or "IN" to "XL" for additional cost.

To order probes with lengths other than 12", change the last 2 digits of the model number from "12" to the desired length in inches, and add the appropriate price per additional foot from the last column.

To order with 310, 316 or 321 SS sheath, change "SS" in model number to "310SS", "316SS" or "321SS", respectively, no additional charge. Consult Sales for lengths between 2 and 12", or for lengths over 24".

Ordering Examples: NB1-CASS-14G-12, 12" grounded 304 SS probe, Type K, ¼" sheath diameter.

NB2-ICSS-14U-12, 12" ungrounded 304 SS, Type J, ¼" sheath diameter.