

# Ceramic Ultra High Temperature Miniature Connectors

OMEGA's Exclusive High Purity Alumina Body Type SHX and USHX Rated From -29 to 650°C (-20 to 1200°F)

- ✓ Extra Heavy Duty Ceramic Construction
- ✓ One-Piece Body with Removable Cap Design
- ✓ Oversized Terminal Screws for Easy Wiring
- ✓ Accepts Stranded or Solid Wire up to Size 20 AWG
- ✓ Combination Phillips/Slot Screws

SHX subminiature connectors are ideal for use with fine gage thermocouple wires in applications where high temperatures are required. The SHX connector is permanently dot-coded to conform to ANSI and OMEGA standards; for applications such as high vacuum furnaces where contamination would adversely affect the process, USHX connectors are shipped with a removable color-coding dot. Two-piece ceramic construction assures long life, while the oversized terminal screws allow for easy wiring.



SHX Series Basic Male Connector



Color-coded dot

Miniature connectors shown actual size.

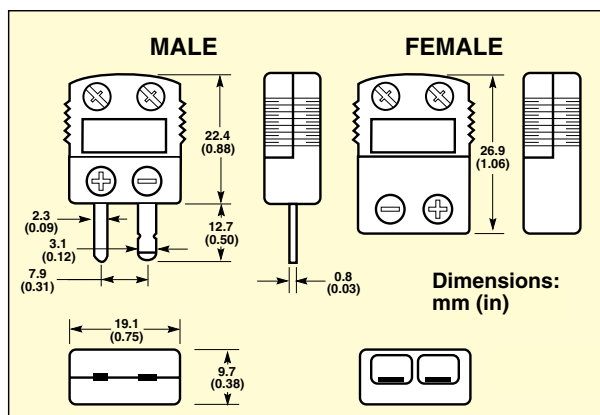


4.93 mm (0.19") wire access hole

We make running changes when technical advances allow. Check at time of ordering for additional features.

**Available with:**

- Type SHX Glazed Color-Coded Dot
- Type USHX Unglazed Removable Color Dot



| Discount Schedule  |     |
|--------------------|-----|
| 1-10 .....         | Net |
| 11-49 .....        | 5%  |
| 50-99 .....        | 10% |
| 100-999 .....      | 15% |
| 1000-4999 .....    | 20% |
| 5000 and over..... | 25% |

| To Order    |  |                                |            |                  |                   |
|-------------|--|--------------------------------|------------|------------------|-------------------|
| Alloy Code† | Type of Thermocouple Used With Connector | Compensating Used in Connector |            | Alloy Color Code | ANSI Model Number |
|             |  | +                              | -          |                  |                   |
| <b>K</b>    | ALOMEGA®                                 | CHROMEALLOY®                   | ALOMEGA    | Yellow           | SHX-K-(*)         |
| <b>T</b>    | Copper-Constantan                        | Copper                         | Constantan | Blue             | SHX-T-(*)         |
| <b>J</b>    | Iron-Constantan                          | Iron                           | Constantan | Black            | SHX-J-(*)         |
| <b>E</b>    | CHROMEALLOY-Constantan                   | CHROMEALLOY                    | Constantan | Purple           | SHX-E-(*)         |
| <b>R/S</b>  | Pt/13%Rh-Pt                              | Copper                         | RNX/SNX    | Green            | SHX-R/S-(*)       |
| <b>G</b>    | W-W/26%Re                                | GPX                            | GNX        | Red/Grn          | SHX-G-(*)         |
| <b>C</b>    | W/5%Re-W/26%Re                           | CPX                            | CNX        | Red              | SHX-C-(*)         |
| <b>D</b>    | W/3%Re-W/25%Re                           | DPX                            | DNX        | Red/Wht          | SHX-D-(*)         |
| <b>U</b>    | Uncompensated                            | Copper                         | Copper     | White            | SHX-U-(*)         |
| <b>N</b>    | OMEGALLOY®                               | OMEGA-P®                       | OMEGA-N®   | Orange           | SHX-N-(*)         |

*Note: Type U uncompensated (model SHX-U) connectors are used with Type B thermocouples (Pt/6%Rh-Pt/30%Rh)*  
*Note: To order unglazed connectors (type USHX), add prefix "U" to model number; no additional cost.*  
**Ordering Examples:** SHX-K-M, glazed connector, male. USHX-K-F, unglazed connector, female.  
**BB-SMP-CR062-100**, pkg of 100 crimp style brass bushing for 0.062 Dia. probe. Visit us online for additional information.



\*To order, specify "M" for male connector only, or "F" for female connector only.  
 †J, K, T, E, R, S and B are ANSI designations. OMEGALLOY, Type N, is generically known as Nicrosil-Nisil.