NEWPORT®

Ultra High Temperature Miniature Connectors
Exclusive-High Purity Alumina Body
Type SHX & USHX Rated to 560°C (1200°F)
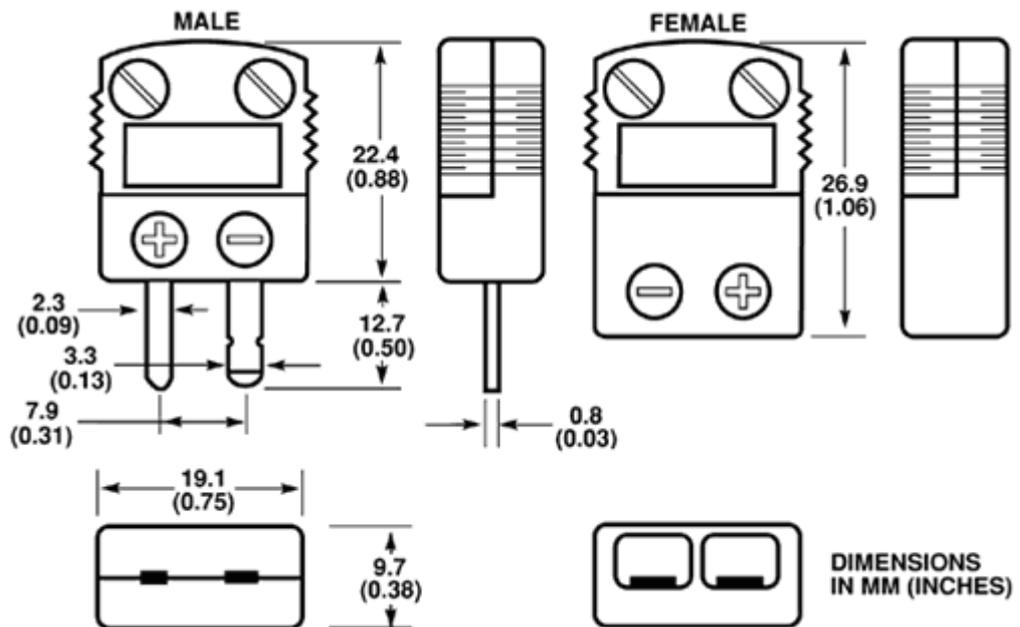
High Purity Alumina!

FEATURES

- ✅ Extra Heavy Duty Ceramic Construction
- ✅ One-Piece Body with Removeable Cap Design
- ✅ Oversized Terminal Screws for Easy Wiring
- ✅ Accepts Stranded or Solid Wire up to Size 20 AWG

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 NEWPORT 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.

MALE

22.4 (0.88)

12.7 (0.50)

2.3 (0.09)

3.3 (0.13)

7.9 (0.31)

19.1 (0.75)

9.7 (0.38)

FEMALE

26.9 (1.06)

0.8 (0.03)

DIMENSIONS IN MM (INCHES)

Available with:
• Type SHX Glazed Color-Coded Dot
• Type USHX Unglazed Removable Color Dot

Ordering Example:
Model **SHX-K-M**
H = High Purity Alumina Connector
K = Calibration
M = Males

Color-Coded Dot

Basic Male Connector
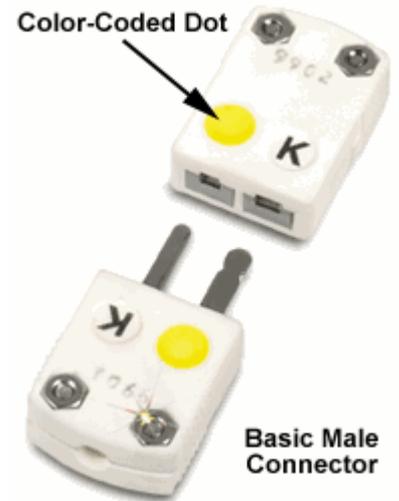
To Order (Specify Model No.)

AlloyCode†	Type of Thermocouple Used in Connector	Compensating Alloy Used in Connector		Color Code	Model Number
		+	**-**		
K	Chromega®-Alomega®	Chromega®	Alomega®	Yellow	SHX-K-(*)
T	Copper-Constantan	Copper	Constantan	Blue	SHX-T-(*)
J	Iron-Constantan	Iron	Constantan	Black	SHX-J-(*)
E	Chromega®-Constantan	Chromega®	Constantan	Purple	SHX-E-(*)
R/S	Pt/13%Rh-Pt	Copper	Alloy #11	Green	SHX-R/S-(*)
G	W-W/26%Re	Alloy #200	Alloy #226	Red/Grn	SHX-G-(*)
C	W/5%Re-W/26%Re	Alloy #405	Alloy #426	Red	SHX-C-(*)
D	W/3%Re-W/25%Re	Alloy #203	Alloy #225	Red/Wht	SHX-D-(*)
U	Uncompensated	Copper	Copper	White	SHX-U-(*)
N	OMEGALLOY®	OMEGA-P®	OMEGA-N®	Orange	SHX-N-(*)

*Specify "**MF**" for connector pair, "**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.
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 charge.

Part Number	Description	Qty.
SHX-K-M	Ultra high temperature male connector, type K calibration	0
SHX-J-F	Ultra high temperature female connector, type J calibration	0
SHX-T-F	Ultra high temperature female connector, type T calibration	0
SHX-R/S-MF	Ultra high temperature male/female connector pair, type R/S calibration	0
SHX-T-MF	Ultra high temperature male/female connector pair, type T calibration	0
SHX-E-M	Ultra high temperature male connector, type E calibration	0
SHX-G-F	Ultra high temperature female connector, type G calibration	0

SHX-N-MF	Ultra high temperature male/female connector pair, type N calibration	0
SHX-C-MF	Ultra high temperature male/female connector pair, type C calibration	0
SHX-D-M	Ultra high temperature male connector, type D calibration	0
SHX-U-M	Ultra high temperature male connector, Uncompensated or B calibration	0
USHX-K-M	Ultra high temperature male connector, type K calibration, unglazed connector	0
USHX-J-F	Ultra high temperature female connector, type J calibration, unglazed connector	0
USHX-T-F	Ultra high temperature female connector, type T calibration, unglazed connector	0
USHX-R/S-MF	Ultra high temperature male/female connector pair, type R/S calibration, unglazed connector	0
USHX-T-MF	Ultra high temperature male/female connector pair, type T calibration, unglazed connector	0

 Note: To Order: Specify **"MF"** for a connector pair, **"M"** for male connector only, or **"F"** for female connector only.

Part Number Builder

(1)	(2)	(3)

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Option Descriptions

(1) Connector Style

Select
SHX for Glazed connector with color coded dot
USHX for Unglazed connector with removable color dot

(2) Thermocouple Calibration

Select
K for Type K
T for Type T
J for Type J
E for Type E
R/S for Type R/S
G for Type G
C for Type C
D for Type D
U for Uncompensated or Type B
N for Type N

(3) Connector Contacts

Select
M for Male
F for Female

MF for Male/Female pair