

Dual Element Thermocouple Assemblies with Standard Size Connectors



Available as



- ✓ 300 mm (12") Length Standard
- ✓ 1.5 to 6.0 mm (1/16" to 1/4") Diameter
- ✓ 304, 310, 316, 321 SS, Inconel® or Super OMEGA XL™ Sheath
- ✓ DTC Type Dual Connector-Mating Connector and Cable Clamp Sold Separately
- ✓ Glass Filled Nylon Connector Body Rated to 220°C (425°F)



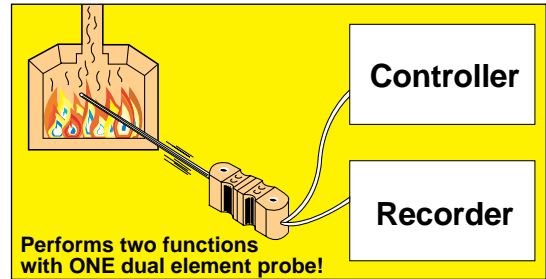
Shown smaller than actual size.

Applications

- ✓ Two Sensor Readings—Built in Backup
- ✓ Allows Two Readings of a Single Point
- ✓ Continuous Monitor and Control

OMEGA™ dual-element thermocouple assemblies are manufactured using 4-conductor OMEGA XL™ wire, and feature rugged DTC connector terminations. Either 304 SS or Inconel sheaths are available in sizes from 1.5 to 6 mm (1/16" to 1/4") OD, with either grounded, ungrounded or exposed junctions. Mating Connector and Cable Clamp sold separately. Standard length is 300 mm (12"), with other lengths available.

Mating Connector and Cable Clamp sold separately.



To Order

Thermocouple Alloy	Sheath Dia. mm (inch)	Grounded Junction	Ungrounded Junction	Exposed Junction
IRON-CONSTANTAN Inconel Sheath J	1.5 (1/16)	ICIN-116G-12-DUAL	ICIN-116U-12-DUAL	ICIN-116E-12-DUAL
	3.0 (1/8)	ICIN-18G-12-DUAL	ICIN-18U-12-DUAL	ICIN-18E-12-DUAL
	4.5 (3/16)	ICIN-316G-12-DUAL	ICIN-316U-12-DUAL	ICIN-316E-12-DUAL
	6.0 (1/4)	ICIN-14G-12-DUAL	ICIN-14U-12-DUAL	ICIN-14E-12-DUAL
IRON-CONSTANTAN 304 SS Sheath J	1.5 (1/16)	ICSS-116G-12-DUAL	ICSS-116U-12-DUAL	ICSS-116E-12-DUAL
	3.0 (1/8)	ICSS-18G-12-DUAL	ICSS-18U-12-DUAL	ICSS-18E-12-DUAL
	4.5 (3/16)	ICSS-316G-12-DUAL	ICSS-316U-12-DUAL	ICSS-316E-12-DUAL
	6.0 (1/4)	ICSS-14G-12-DUAL	ICSS-14U-12-DUAL	ICSS-14E-12-DUAL
CHROMEGA®...* ALOMEGA® Inconel Sheath K	91.5 (1/16)	CAIN-116G-12-DUAL	CAIN-116U-12-DUAL	CAIN-116E-12-DUAL
	3.0 (1/8)	CAIN-18G-12-DUAL	CAIN-18U-12-DUAL	CAIN-18E-12-DUAL
	4.5 (3/16)	CAIN-316G-12-DUAL	CAIN-316U-12-DUAL	CAIN-316E-12-DUAL
	6.0 (1/4)	CAIN-14G-12-DUAL	CAIN-14U-12-DUAL	CAIN-14E-12-DUAL
CHROMEGA ALOMEGA 304 SS Sheath K	1.5 (1/16)	CASS-116G-12-DUAL	CASS-116U-12-DUAL	CASS-116E-12-DUAL
	3.0 (1/8)	CASS-18G-12-DUAL	CASS-18U-12-DUAL	CASS-18E-12-DUAL
	4.5 (3/16)	CASS-316G-12-DUAL	CASS-316U-12-DUAL	CASS-316E-12-DUAL
	6.0 (1/4)	CASS-14G-12-DUAL	CASS-14U-12-DUAL	CASS-14E-12-DUAL
CHROMEGA CONSTANTAN Inconel Sheath E	1.5 (1/16)	CXIN-116G-12-DUAL	CXIN-116U-12-DUAL	CXIN-116E-12-DUAL
	3.0 (1/8)	CXIN-18G-12-DUAL	CXIN-18U-12-DUAL	CXIN-18E-12-DUAL
	4.5 (3/16)	CXIN-316G-12-DUAL	CXIN-316U-12-DUAL	CXIN-316E-12-DUAL
	6.0 (1/4)	CXIN-14G-12-DUAL	CXIN-14U-12-DUAL	CXIN-14E-12-DUAL
CHROMEGA CONSTANTAN 304 SS Sheath E	1.5 (1/16)	CXSS-116G-12-DUAL	CXSS-116U-12-DUAL	CXSS-116E-12-DUAL
	3.0 (1/8)	CXSS-18G-12-DUAL	CXSS-18U-12-DUAL	CXSS-18E-12-DUAL
	4.5 (3/16)	CXSS-316G-12-DUAL	CXSS-316U-12-DUAL	CXSS-316E-12-DUAL
	6.0 (1/4)	CXSS-14G-12-DUAL	CXSS-14U-12-DUAL	CXSS-14E-12-DUAL
COPPER-CONSTANTAN Inconel Sheath T	1.5 (1/16)	CPIN-116G-12-DUAL	CPIN-116U-12-DUAL	CPIN-116E-12-DUAL
	3.0 (1/8)	CPIN-18G-12-DUAL	CPIN-18U-12-DUAL	CPIN-18E-12-DUAL
	4.5 (3/16)	CPIN-316G-12-DUAL	CPIN-316U-12-DUAL	CPIN-316E-12-DUAL
	6.0 (1/4)	CPIN-14G-12-DUAL	CPIN-14U-12-DUAL	CPIN-14E-12-DUAL
COPPER-CONSTANTAN 304 SS Sheath T	1.5 (1/16)	CPSS-116G-12-DUAL	CPSS-116U-12-DUAL	CPSS-116E-12-DUAL
	3.0 (1/8)	CPSS-18G-12-DUAL	CPSS-18U-12-DUAL	CPSS-18E-12-DUAL
	4.5 (3/16)	CPSS-316G-12-DUAL	CPSS-316U-12-DUAL	CPSS-316E-12-DUAL
	6.0 (1/4)	CPSS-14G-12-DUAL	CPSS-14U-12-DUAL	CPSS-14E-12-DUAL

To order with 310, 316 or 321 stainless steel sheath, change "SS" in model number to "310SS", "316SS" or "321SS" respectively, no additional charge.
 * To order Super OMEGA XL sheath, change "N" in model number to "XL" for additional cost. Note: PFA coating is available, 205°C (400°F) max.
 Custom connector types available, consult custom engineering. **Ordering Example: CAIN-14G-12-DUAL**, dual Type K grounded thermocouples, 6 mm (1/4") Dia. Inconel sheath, 12" long.

Thermocouple Alloy	Grounded Junction	Ungrounded Junction	Exposed Junction	Mating Connector Model No.	Cable Clamp Model No.
IRON-CONSTANTAN Inconel Sheath J	ICIN-116G-12-DUAL ICIN-18G-12-DUAL ICIN-316G-12-DUAL ICIN-14G-12-DUAL	ICIN-116U-12-DUAL ICIN-18U-12-DUAL ICIN-316U-12-DUAL ICIN-14U-12-DUAL	ICIN-116E-12-DUAL ICIN-18E-12-DUAL ICIN-316E-12-DUAL ICIN-14E-12-DUAL	DTC-J-F	PCLM-DTC
IRON-CONSTANTAN 304 SS Sheath J	ICSS-116G-12-DUAL ICSS-18G-12-DUAL ICSS-316G-12-DUAL ICSS-14G-12-DUAL	ICSS-116U-12-DUAL ICSS-18U-12-DUAL ICSS-316U-12-DUAL ICSS-14U-12-DUAL	ICSS-116E-12-DUAL ICSS-18E-12-DUAL ICSS-316E-12-DUAL ICSS-14E-12-DUAL	DTC-J-F	
CHROMEGLA™_* ALOMEGA™ Inconel Sheath K	CAIN-116G-12-DUAL CAIN-18G-12-DUAL CAIN-316G-12-DUAL CAIN-14G-12-DUAL	CAIN-116U-12-DUAL CAIN-18U-12-DUAL CAIN-316U-12-DUAL CAIN-14U-12-DUAL	CAIN-116E-12-DUAL CAIN-18E-12-DUAL CAIN-316E-12-DUAL CAIN-14E-12-DUAL	DTC-K-F	
CHROMEGLA ALOMEGA 304 SS Sheath K	CASS-116G-12-DUAL CASS-18G-12-DUAL CASS-316G-12-DUAL CASS-14G-12-DUAL	CASS-116U-12-DUAL CASS-18U-12-DUAL CASS-316U-12-DUAL CASS-14U-12-DUAL	CASS-116E-12-DUAL CASS-18E-12-DUAL CASS-316E-12-DUAL CASS-14E-12-DUAL	DTC-K-F	
CHROMEGLA CONSTANTAN Inconel Sheath E	CXIN-116G-12-DUAL CXIN-18G-12-DUAL CXIN-316G-12-DUAL CXIN-14G-12-DUAL	CXIN-116U-12-DUAL CXIN-18U-12-DUAL CXIN-316U-12-DUAL CXIN-14U-12-DUAL	CXIN-116E-12-DUAL CXIN-18E-12-DUAL CXIN-316E-12-DUAL CXIN-14E-12-DUAL	DTC-E-F	
CHROMEGLA CONSTANTAN 304 SS Sheath E	CXSS-116G-12-DUAL CXSS-18G-12-DUAL CXSS-316G-12-DUAL CXSS-14G-12-DUAL	CXSS-116U-12-DUAL CXSS-18U-12-DUAL CXSS-316U-12-DUAL CXSS-14U-12-DUAL	CXSS-116E-12-DUAL CXSS-18E-12-DUAL CXSS-316E-12-DUAL CXSS-14E-12-DUAL	DTC-E-F	
COPPER-CONSTANTAN Inconel Sheath T	CPIN-116G-12-DUAL CPIN-18G-12-DUAL CPIN-316G-12-DUAL CPIN-14G-12-DUAL	CPIN-116U-12-DUAL CPIN-18U-12-DUAL CPIN-316U-12-DUAL CPIN-14U-12-DUAL	CPIN-116E-12-DUAL CPIN-18E-12-DUAL CPIN-316E-12-DUAL CPIN-14E-12-DUAL	DTC-T-F	
COPPER-CONSTANTAN 304 SS Sheath T	CPSS-116G-12-DUAL CPSS-18G-12-DUAL CPSS-316G-12-DUAL CPSS-14G-12-DUAL	CPSS-116U-12-DUAL CPSS-18U-12-DUAL CPSS-316U-12-DUAL CPSS-14U-12-DUAL	CPSS-116E-12-DUAL CPSS-18E-12-DUAL CPSS-316E-12-DUAL CPSS-14E-12-DUAL	DTC-T-F	

All Accessories Sold Separately.

* To order Super OMEGACLAD XL sheath, change "N" in model number to "XL" for additional cost.