Thermocouple Wire Ceramic Fiber Braid Insulation & Jacket

2200°F 1204°C Continuous, 2600°F 1427°C Single Reading

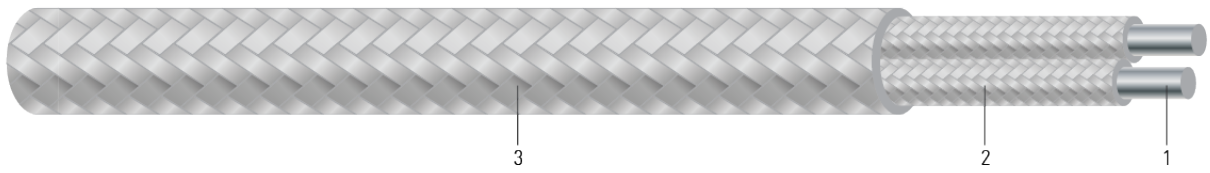

Image not to scale. See Table 1 for dimensions.

CONSTRUCTION:

1. **Conductor:** Thermocouple wire per ANSI MC 96.1 & ASTM E230 (Solid or stranded available)
2. **Insulation:** Ceramic Fiber Braid
3. **Overall Jacket:** Ceramic Fiber Braid

APPLICATIONS AND FEATURES:

Widely used in industrial applications such as steel, aluminum, glass plants and the production of metals. Also used in the heat treating industry, furnace surveys and beaded thermocouple replacement. Excellent flame retardance and resistance to elevated temperatures. Good resistance to abrasion.

Stainless Steel, Inconel metal, or Tin Plated Copper overbraid is available on request. Type E, J, K, T and other Types available on request.

SPECIFICATIONS:

- ASTM E230 Temperature-Electromotive Force (emf) Tables for Standardized Thermocouples
- ANSI MC 96.1 Temperature Measurement Thermocouples

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Table 1 – Weights and Measurements

Stock Number	Cond. Size	Cond. Number	Insul. Thickness	Jacket Thickness	Approx. OD	Approx. Weight	Temp. Rating	Standard (UL or other)
	AWG/Kcmil	No.	mil	mil	inch	lb/1000ft	°C	Style/Type
C4C_00	24	2	14	14	0.076 x 0.124	6	1204 / 1427	Type E, J, K, T
C4C_10	22	2	14	14	0.081 x 0.135	7	1204 / 1427	Type E, J, K, T
C4C_20	20	2	14	14	0.088 x 0.148	11	1204 / 1427	Type E, J, K, T
C4C_30	18	2	14	14	0.096 x 0.164	16	1204 / 1427	Type E, J, K, T
C4C_40	16	2	14	14	0.107 x 0.186	25	1204 / 1427	Type E, J, K, T
C4C_05	24(7)	2	14	14	0.080 x 0.132	6	1204 / 1427	Type E, J, K, T
C4C_25	20(7)	2	14	14	0.092 x 0.156	11	1204 / 1427	Type E, J, K, T
C4C_45	16(7)	2	14	14	0.114 x 0.200	25	1204 / 1427	Type E, J, K, T

All dimensions are nominal and subject to normal manufacturing tolerances
◊ Cable marked with this symbol is a standard stock item
0=Type E // 1=Type J // 2=Type K // 3=Type T
Available in standard and special limits of error per ANSI MC 96.1, ASTM E230 and IEC 584.

Table 2 – Weights and Measurements (Metric)

Stock Number	Cond. Size	Cond. Number	Insul. Thickness	Jacket Thickness	Approx. OD	Approx. Weight	Temp. Rating	Standard (UL or other)
	AWG/Kcmil	No.	mm	mm	mm	kg/km	°C	Style/Type
C4C_00	24	2	0.36	0.36	1.93 x 3.15	9	1204 / 1427	Type E, J, K, T
C4C_10	22	2	0.36	0.36	2.06 x 3.43	10	1204 / 1427	Type E, J, K, T
C4C_20	20	2	0.36	0.36	2.24 x 3.76	16	1204 / 1427	Type E, J, K, T
C4C_30	18	2	0.36	0.36	2.44 x 4.17	24	1204 / 1427	Type E, J, K, T
C4C_40	16	2	0.36	0.36	2.72 x 4.72	37	1204 / 1427	Type E, J, K, T
C4C_05	24(7)	2	0.36	0.36	2.03 x 3.35	9	1204 / 1427	Type E, J, K, T
C4C_25	20(7)	2	0.36	0.36	2.34 x 3.96	16	1204 / 1427	Type E, J, K, T
C4C_45	16(7)	2	0.36	0.36	2.90 x 5.08	37	1204 / 1427	Type E, J, K, T