Thermocouple Wire FEP Insulation & Jacket

392°F 200°C Continuous, 500°F 260°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:** Extruded FEP
3. **Overall Jacket:** Extruded FEP

APPLICATIONS AND FEATURES:

Widely used in petrochemical facilities, the aerospace industry and also in temperature sensors. Also provides stability in low temperature applications. Excellent flame retardance and chemical resistance. Excellent resistance to acids, solvents and moisture. Excellent 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. Available in single and multi twisted shielded pair constructions.

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
C4F_00	24	2	8	10	0.056 x 0.092	5	200 / 260	Type E, J, K, T
C4F_10	22	2	8	10	0.061 x 0.102	7	200 / 260	Type E, J, K, T
C4F_20	20	2	8	10	0.068 x 0.116	10	200 / 260	Type E, J, K, T
C4F_30	18	2	8	10	0.076 x 0.132	15	200 / 260	Type E, J, K, T
C4F_40	16	2	8	10	0.087 x 0.154	22	200 / 260	Type E, J, K, T
C4F_05	24(7)	2	8	10	0.060 x 0.100	6	200 / 260	Type E, J, K, T
C4F_25	20(7)	2	8	10	0.072 x 0.124	11	200 / 260	Type E, J, K, T
C4F_45	16(7)	2	8	10	0.094 x 0.168	22	200 / 260	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
Conductor insulation and overall jacket are color coded per ANSI MC 96.1 and ASTM E230.
International color codes available on request.
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
C4F_00	24	2	0.20	0.25	1.42 x 2.34	7	200 / 260	Type E, J, K, T
C4F_10	22	2	0.20	0.25	1.55 x 2.59	10	200 / 260	Type E, J, K, T
C4F_20	20	2	0.20	0.25	1.73 x 2.95	15	200 / 260	Type E, J, K, T
C4F_30	18	2	0.20	0.25	1.93 x 3.35	22	200 / 260	Type E, J, K, T
C4F_40	16	2	0.20	0.25	2.21 x 3.91	33	200 / 260	Type E, J, K, T
C4F_05	24(7)	2	0.20	0.25	1.52 x 2.54	9	200 / 260	Type E, J, K, T
C4F_25	20(7)	2	0.20	0.25	1.83 x 3.15	16	200 / 260	Type E, J, K, T
C4F_45	16(7)	2	0.20	0.25	2.39 x 4.27	33	200 / 260	Type E, J, K, T