

Thermocouple Wire PFA Insulation & Jacket

500°F 260°C Continuous, 550°F 290°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 PFA
3. **Overall Jacket:** Extruded PFA

APPLICATIONS AND FEATURES:

Widely used in petrochemical facilities, the aerospace industry and also in electrical generating facilities. Also provides stability in low temperature applications. Excellent flame retardance and chemical resistance. Excellent resistance to acids, solvents, and abrasion. Good resistance to moisture.

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



Southwire Company, LLC | One Southwire Drive, Carrollton, GA 30119 | www.southwire.com

Copyright © 2024 Southwire Company, LLC. All Rights Reserved



Southwire

**CABLETECH
SUPPORT™**

Services

UPDATED: Dec. 11, 2023, 9:29 p.m. UTC REVISION: 1.000.000

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
C4P_00	24	2	8	10	0.056 x 0.092	5	260 / 290	Type E, J, K, T
C4P_10	22	2	8	10	0.061 x 0.102	7	260 / 290	Type E, J, K, T
C4P_20	20	2	8	10	0.068 x 0.116	10	260 / 290	Type E, J, K, T
C4P_30	18	2	8	10	0.076 x 0.132	15	260 / 290	Type E, J, K, T
C4P_40	16	2	8	10	0.087 x 0.154	22	260 / 290	Type E, J, K, T
C4P_05	24(7)	2	8	10	0.060 x 0.100	6	260 / 290	Type E, J, K, T
C4P_25	20(7)	2	8	10	0.072 x 0.124	11	260 / 290	Type E, J, K, T
C4P_45	16(7)	2	8	10	0.094 x 0.168	22	260 / 290	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
C4P_00	24	2	0.20	0.25	1.42 x 2.34	7	260 / 290	Type E, J, K, T
C4P_10	22	2	0.20	0.25	1.55 x 2.59	10	260 / 290	Type E, J, K, T
C4P_20	20	2	0.20	0.25	1.73 x 2.95	15	260 / 290	Type E, J, K, T
C4P_30	18	2	0.20	0.25	1.93 x 3.35	22	260 / 290	Type E, J, K, T
C4P_40	16	2	0.20	0.25	2.21 x 3.91	33	260 / 290	Type E, J, K, T
C4P_05	24(7)	2	0.20	0.25	1.52 x 2.54	9	260 / 290	Type E, J, K, T
C4P_25	20(7)	2	0.20	0.25	1.83 x 3.15	16	260 / 290	Type E, J, K, T
C4P_45	16(7)	2	0.20	0.25	2.39 x 4.27	33	260 / 290	Type E, J, K, T

