



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



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 |