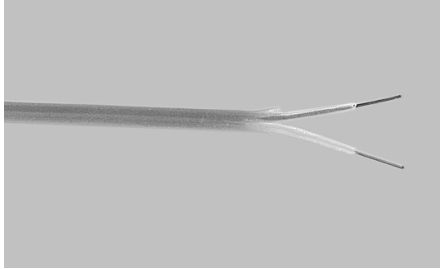


# SERV-RITE Wire and Cable

## Thermocouple Wire Small Gauge FEP Insulated SERIES 506



The SERIES 506 is the smallest standard insulated wire construction. The thin FEP wall on both primary and duplex insulation yields a construction that can operate safely at temperatures far beyond common PVC and nylon insulations.

The SERIES 506 is fully color coded for ease of installation. Its small size allows use in high density circuits. Response time is minimized by small diameter conductors. SERIES 506 is available only in gauge sizes of #26 and smaller. For gauge sizes larger than #26 specify SERIES 507 (see page 196).

Continuous Use Temp.	Single Use Temp.
204°C (400°F)	260°C (500°F)

Resistance Properties		
Moisture	Chemical	Abrasion
Excellent	Excellent	Excellent

### Wire Specifications

AWG	Nominal Conductor Size in. (mm)	Nominal Insulation Thickness		Nominal Overall Size in. (mm)	Approximate Shipping Weight lbs/1000 ft (kg/km)
		Conductor in. (mm)	Overall in. (mm)		
36	0.005 (0.127)	0.005 (0.127)	0.005 (0.127)	0.025 x 0.040 (0.635 x 1.02)	2 (3.0)
32	0.008 (0.203)	0.005 (0.127)	0.005 (0.127)	0.028 x 0.046 (0.711 x 1.17)	2 (3.0)
30	0.010 (0.254)	0.005 (0.127)	0.005 (0.127)	0.030 x 0.050 (0.762 x 1.27)	3 (4.5)
28	0.013 (0.330)	0.005 (0.127)	0.005 (0.127)	0.033 x 0.056 (0.838 x 1.42)	3 (4.5)

### Popular Constructions

Grade	AWG	Wire Type	Limits of Error	Type K	Type J	Type T
Thermocouple	28	Solid	Special	K28-2-506	J28-2-506	T28-2-506
	30	Solid	Special	<b>K30-2-506</b>	<b>J30-2-506</b>	<b>T30-2-506</b>
	36	Solid	Special	K36-2-506	J36-2-506	T36-2-506

**Note:** Bolded products are stocked and shipped in 100, 250, 500 and 1000 foot spools.

### Available Constructions



#### 1. ASTM E 230 Calibrations

E      K      S  
J      N      T

#### 2-3. AWG

36      30      28

#### 4. Conductor Type/Tolerance

- 1 = Thermocouple grade, solid wire, standard tolerance
- 2 = Thermocouple grade, solid wire, special tolerance
- 3 = Thermocouple grade, stranded wire, standard tolerance
- 4 = Thermocouple grade, stranded wire, special tolerance

**Note:** Minimum order sizes apply for non-stock constructions.

### Performance Capabilities

- Continuous temperature rating 204°C (400°F)
- Flexible FEP plastic insulation
- Thin insulation wall for a compact construction
- Available with optional metallic overbraid for additional abrasion resistance

### Applications

- Laboratory
- Test stand
- Industrial equipment testing