

SERV-RITE Wire

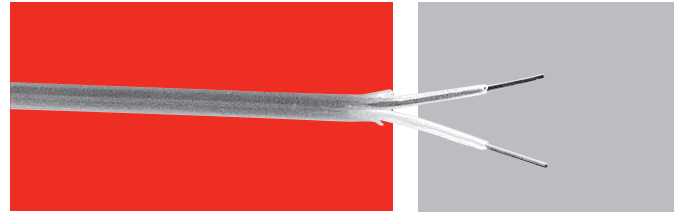
Thermocouple and Extension Wire Small Gauge Fluorinated Ethylene Propylene (FEP) Insulated SERIES 506

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 easy installation. Its small size allows use in high density circuits. Response time is minimized by small diameter conductors. For larger diameter gauge sizes than #28, specify SERIES 507.

Performance Capabilities

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



Applications

- Laboratory
- Test stand
- Industrial equipment testing

Specifications

Continuous use temperature

- 400°F (204°C)

Single use temperature

- 500°F (260°C)

Resistance properties

- Moisture: Excellent
- Chemical: Excellent
- Abrasion: Excellent

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	K30-2-506	J30-2-506	T30-2-506
	36	Solid	Special	K36-2-506	J36-2-506	T36-2-506

Note: Bolded products are stocked.

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)

Ordering Information

Part Number

①	② ③	④	⑤	⑥	⑦
ASTM E 230 Calibration	AWG	Conductor Type/Tolerance			
			5	0	6

①	ASTM E 230 Calibration
E	Type E
J	Type J
K	Type K
S	Type S
T	Type T

② ③	AWG
36	36 gauge solid
30	30 gauge solid
28	28 gauge solid

④	Conductor Type/Tolerance
1	Thermocouple grade, solid wire, standard tolerance
2	Thermocouple grade, solid wire, special tolerance

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