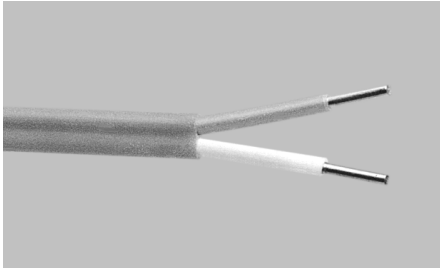


SERV-RITE Wire and Cable

Thermocouple Wire

FEP Insulated Thermocouple and Extension Wire SERIES 507



The SERIES 507 is the most economical fluoroplastic insulated wire. SERIES 507 is also available as UL® listed PLTC. Individual conductors are coated with a layer of color coded FEP. The insulated conductors are then parallel duplexed with an additional layer of color coded FEP. The finished construction has a continuous temperature rating of 204°C (400°F). Abrasion, moisture and chemical resistance are far in excess of most other insulations.

This construction is widely used when pulling long lengths of wire through conduit. FEP's low friction coefficient and abrasion resistance make it ideally suited for these applications.

For higher abrasion resistance consider Tefzel® insulated constructions, the SERIES 514.

For higher temperatures specify SERIES 508 (see page 198).

Continuous Use Temp.		Single Use Temp.
204°C (400°F)		260°C (500°F)
Resistance Properties		
Moisture	Chemical	Abrasion
Excellent	Excellent	Excellent

Tefzel® is a registered trademark of E. I. du Pont de Nemours & Company.

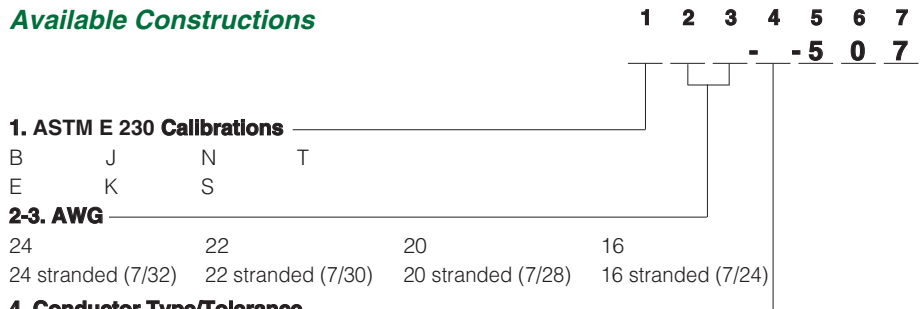
Popular Constructions

Grade	AWG	Wire Type	Limits of Error	Type K	Type J	Type T
Extension	20	Solid	Standard	K20-5-507	J20-5-507	T20-5-507
Thermocouple	20	Solid	Standard	K20-1-507	J20-1-507	T20-1-507
		Stranded	Standard	K20-3-507	J20-3-507	T20-3-507
		Solid	Special	K20-2-507	J20-2-507	T20-2-507
	24	Solid	Standard	K24-1-507	J24-1-507	T24-1-507
		Stranded	Standard	K24-3-507	J24-3-507	T24-3-507
		Solid	Special	K24-2-507	J24-2-507	T24-2-507

Grade	AWG	Wire Type	Limits of Error	Type E	Type S
Extension	20	Solid	Standard	E20-5-507	S20-5-507
Thermocouple	20	Solid	Standard	E20-1-507	
		Stranded	Standard	E20-3-507	
		Solid	Special	E20-2-507	
Extension	24	Solid	Standard		S24-5-507
Thermocouple	24	Solid	Standard	E24-1-507	
		Stranded	Standard	E24-3-507	
		Solid	Special	E24-2-507	

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

Available Constructions



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
- 5 = Extension grade, solid wire, standard tolerance
- 6 = Extension grade, solid wire, special tolerance
- 7 = Extension grade, stranded wire, standard tolerance
- 8 = Extension 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
- Available with optional metallic overbraid for additional abrasion resistance

Applications

- General use extension wire

SERV-RITE Wire and Cable

Thermocouple Wire

FEP Insulated Thermocouple and Extension Wire SERIES 507 (con't)

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)				
24	0.020	(0.508)	0.008 (0.203)	0.010 (0.254)	0.056 x 0.096 (1.42 x 2.44)		8	(11.9)
24 S* (7/32)	0.024	(0.610)	0.008 (0.203)	0.010 (0.254)	0.060 x 0.104 (1.52 x 2.64)		9	(13.4)
22	0.025	(0.635)	0.008 (0.203)	0.010 (0.254)	0.061 x 0.106 (1.55 x 2.69)		10	(14.9)
22 S* (7/30)	0.030	(0.762)	0.008 (0.203)	0.010 (0.254)	0.066 x 0.116 (1.68 x 2.95)		11	(16.4)
20	0.032	(0.813)	0.008 (0.203)	0.010 (0.254)	0.068 x 0.120 (1.73 x 3.05)		12	(17.9)
20 S* (7/28)	0.038	(0.965)	0.008 (0.203)	0.010 (0.254)	0.074 x 0.132 (1.88 x 3.35)		14	(20.9)
18	0.040	(1.02)	0.008 (0.203)	0.010 (0.254)	0.076 x 0.136 (1.93 x 3.45)		18	(26.8)
18 S* (7/26)	0.048	(1.22)	0.008 (0.203)	0.010 (0.254)	0.084 x 0.152 (2.13 x 3.86)		20	(29.8)
16	0.051	(1.29)	0.008 (0.203)	0.012 (0.305)	0.091 x 0.162 (2.31 x 4.11)		28	(41.7)
16 S* (7/24)	0.060	(1.52)	0.008 (0.203)	0.012 (0.305)	0.100 x 0.186 (2.54 x 4.72)		30	(44.7)

* "S" denotes stranded wire: e.g., "24 S (7/32)" is seven strands of 32 gauge wire to make a 24 gauge stranded conductor.