

SERV-RITE Wire

Thermocouple and Extension Wire

FEP Insulated Thermocouple and Extension Wire SERIES 507

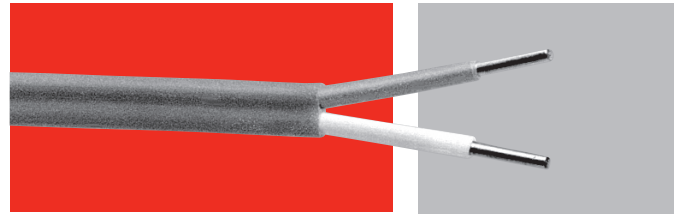
The SERIES 507 is the most economical fluoroplastic insulated wire. Individual conductors are coated with a layer of color coded FEP. The insulated conductors are then parallel duplexed with an additional layer of color coded FEP. The finished construction has a continuous temperature rating of 400°F (204°C). Abrasion, moisture and chemical resistance exceed most other insulations. This construction is widely used when pulling long lengths of wire through conduit. FEP's low friction coefficient and abrasion resistance are suited for these applications.

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

For higher temperatures specify SERIES 508.

Performance Capabilities

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



Applications

- General use extension wire

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	Type E	Type S
Extension	20	Solid	Standard	K20-5-507	J20-5-507	T20-5-507	E20-5-507	S20-5-507
	24	Solid	Standard					S24-5-507
Thermocouple	20	Solid	Standard	K20-1-507	J20-1-507	T20-1-507	E20-1-507	
		Stranded	Standard	K20-3-507	J20-3-507	T20-3-507	E20-3-507	
		Solid	Special	K20-2-507	J20-2-507	T20-2-507	E20-2-507	
	24	Solid	Standard	K24-1-507	J24-1-507	T24-1-507	E24-1-507	
		Stranded	Standard	K24-3-507	J24-3-507	T24-3-507	E24-3-507	
		Solid	Special	K24-2-507	J24-2-507	T24-2-507	E24-2-507	

Note: **Bolded** products are stocked.

Wire Specifications

AWG	Nominal Conductor Size		Nominal Insulation Thickness			Nominal Overall Size		Approximate Shipping Weight		
			Conductor		Overall					
	in.	(mm)	in.	(mm)	in.	(mm)	in.	(mm)	lbs/1000 ft	(kg/km)
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)

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

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**FEP Insulated Thermocouple
and Extension Wire SERIES 507 (Continued)**

Ordering Information

Part Number

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

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

② ③	AWG
24 =	24 gauge solid or 24 gauge stranded (7/32)
22 =	22 gauge solid or 22 gauge stranded (7/30)
20 =	20 gauge solid or 20 gauge stranded (7/28)

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
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.