SERV-RITE Wire

Thermocouple and Extension Wire

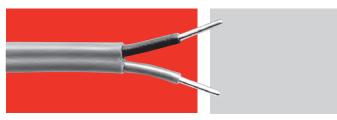
PFA Insulated Thermocouple and Extension Wire SERIES 516

A relatively new fluoroplastic, perfluoralkoxy (PFA), is the insulation used for SERIES 516. PFA's temperature rating is only slightly less than TFE. However, PFA can be applied using conventional extrusion techniques. This produces a smooth finish, as opposed to the spiral usually associated with TFE tape constructions. This is important in the foodservice industry where taped constructions present cleaning problems. The smooth surface also allows this construction to be pulled through conduits and cut-outs more easily.

Once each conductor has been coated with a color coded PFA layer, they are laid parallel and coated again with PFA.

Performance Capabilities

- Continuous temperature rating: 500°F (260°C)
- Flexible TFE plastic insulation
- Available with an optional metallic overbraid for additional abrasion resistance



Applications

· General use extension wire

Specifications

Continuous use temperature

• 500°F (260°C)

Single use temperature

• 550°F (290°C)

Resistance properties

Moisture: ExcellentChemical: ExcellentAbrasion: Good

Popular Constructions

Grade	AWG	Wire Type	Limits of Error	Туре К	Type J	Туре Т	Туре Е
	20	Solid	Standard	K20-1-516	J20-1-516	T20-1-516	E20-1-516
		Solid	Special	K20-2-516	J20-2-516	T20-2-516	E20-2-516
Thormoodynla		Stranded	Standard	K20-3-516	J20-3-516	T20-3-516	E20-3-516
Thermocouple	24	Solid	Standard	K24-1-516	J24-1-516	T20-1-516	E24-1-516
		Solid	Special	K24-2-516	J24-2-516	T20-2-516	E24-2-516
		Stranded	Standard	K24-3-516	J24-3-516	T20-3-516	E24-3-516

Note: Bolded products are stocked.

Wire Specifications

The epochications										
		Nominal Insulation Thickness			Nominal Overall		Approximate			
AWG	Nominal Conductor Size		Conductor		Overall		Size		Shipping Weight	
	in.	(mm)	in.	(mm)	in.	(mm)	in.	(mm)	lbs/1000 ft	(kg/km)
36	0.005	(0.127)	0.003	(0.076)	0.003	(0.076)	0.017 x 0.028	(0.432 x 0.711)	3.0	(2)
30	0.010	(0.254)	0.003	(0.076)	0.003	(0.076)	0.022 x 0.038	(0.559 x 0.965)	4.5	(3)
24	0.020	(0.508)	0.008	(0.203)	0.010	(0.254)	0.056 x 0.092	(1.42 x 2.34)	11.9	(8)
24 S* (7/32)	0.024	(0.610)	0.008	(0.203)	0.010	(0.254)	0.060 x 0.100	(1.52 x 2.54)	13.4	(9)
20	0.032	(0.813)	0.008	(0.203)	0.010	(0.254)	0.068 x 0.116	(1.73 x 2.95)	17.9	(12)
20 S* (7/28)	0.038	(0.965)	0.008	(0.203)	0.010	(0.254)	0.074 x 0.128	(1.88 x 3.25)	20.9	(14)

^{* &}quot;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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PFA Insulated Thermocouple and Extension Wire SERIES 516 (Continued)

Ordering Information

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

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

2 3	AWG			
36 =	36 gauge solid			
	0 = 30 gauge solid			
24 =	= 24 gauge solid or 24 gauge stranded (7/32)			
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.

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