

# **SERV-RITE** Wire and Cable

# **Small Gauge FEP Insulated** Thermocouple and **Extension Wire**

## Series 506



	Resistance Properties									
Temp.	Moisture	Chemical	Abrasion							
400°F (204°C)	Excellent	Excellent	Excellent							

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.



### 4. Conductor Type/Tolerance -

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

#### **Performance Capabilities**

- Continuous temperature rating: 400°F (204°C)
- Single reading: 500°F (260°C)

## Features and Benefits

- **Extruded FEP single conductor** and duplex insulation for excellent protection.
- ASTM E 230 color code for easy identification.
- **Excellent abrasion, moisture** and chemical resistance.

- · Additional abrasion resistance with optional stainless steel and tinned copper wire overbraids.
- · Custom constructions available, consult factory.

### **Applications**

· Industrial equipment testing

#### Wire Specifications

			Nominal Insulation Thickness			Nominal Overall		Approximate			
B & S	B & S Nominal Conductor Size		Conductor		Overall		Size		Shipping Weight		
Gauge	inches	(mm)	inches	s (mm)	inche	s (mm)	inches		(mm)	lbs/1000 ft	(kg/km)
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)