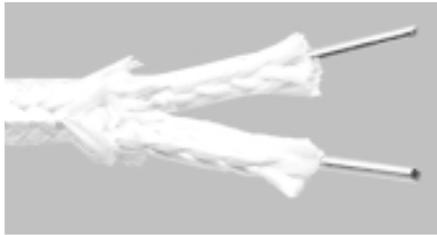


SERV-RITE Wire and Cable

PYROSALES P/N
WI-PWK720 - K20/2/301

High Temperature Vitreous Silica Braided Thermocouple Wire

Series 301



Temp.	Resistance Properties		
	Moisture	Chemical	Abrasion
1800 F (980 C)	Fair	Good	Fair

Series 301 uses vitreous silica yarn as the insulation on both the conductors and duplex. This yarn retains its flexibility after exposure to high temperatures.

The vitreous silica yarn's greater purity performs better at high temperatures than other fibrous glass products. Testing has indicated that "contamination" will compromise this material's upper use temperature. For this reason, our standard offering is supplied without color coding or impregnations.

For higher temperatures consider Series 350.

Construction Combinations

1. ASTM E 230 Calibrations

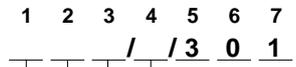
E K
J N

2-3. B & S Gauge

20 16
18

4. Conductor Type/Tolerance

1 = Thermocouple grade, solid wire, standard tolerances
2 = Thermocouple grade, solid wire, special tolerances



Performance Capabilities

- Continuous temperature rating: 1800° F (980° C)
- Single reading: 2000° F (1095° C)

Features and Benefits

- **Braided vitreous silica yarn* single conductor and duplex insulation** provides high temperature performance.
- **Good chemical resistance, fair abrasion and moisture resistance.**

- **Additional abrasion resistance** with optional stainless steel and alloy 600 wire overbraids.
- **Custom constructions available, consult factory.**

Applications

- Furnace survey work
- Heat treating load thermocouples

Wire Specifications

B & S Gauge	Nominal Conductor Size inches (mm)	Nominal Insulation Thickness		Nominal Overall Size inches (mm)	Approximate Shipping Weight lbs/1000 ft (kg/km)
		Conductor inches (mm)	Overall inches (mm)		
20	0.032 (0.813)	0.018 (0.457)	0.015 (0.381)	0.098 X 0.154 (2.49 X 3.91)	15 (22.4)
18	0.040 (1.020)	0.018 (0.457)	0.015 (0.381)	0.110 X 0.180 (2.79 X 4.57)	19 (28.3)
16	0.051 (1.290)	0.016 (0.406)	0.015 (0.381)	0.118 X 0.198 (3.00 X 5.03)	25 (37.3)

* Lack of binders or impregnations may cause insulation to "flower" when stripped.