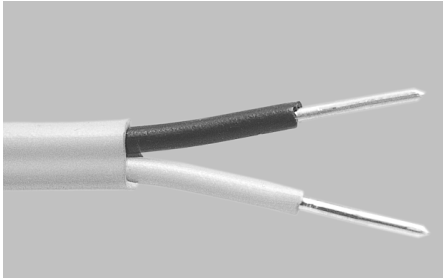


SERV-RITE Wire and Cable

Thermocouple Wire PVC Insulated Extension Wire SERIES 502 UL®



UL® SERIES 502 is an economical wire available in UL® listings for Power Limited Tray Cable (PLTC) applications.

The primary and duplex insulation is PVC. It yields a construction that's in-expensive while performing continuously at temperatures to 105°C (220°F).

UL® SERIES 502 is often used in conduit and wiring trays where its flexibility allows for easy installation. The UL® SERIES 502 can be easily stripped using hand tools or mechanical methods.

Continuous Use Temp.	Single Use Temp.
105°C (220°F)	105°C (220°F)

Resistance Properties		
Moisture	Chemical	Abrasion
Excellent	Good	Good

Wire Specifications

AWG	Nominal Conductor Size in. (mm)	Nominal Insulation Thickness		Nominal Overall Size in. (mm)	Approximate Shipping Weight	
		Conductor in. (mm)	Overall in. (mm)		lbs/1000 ft	(kg/km)
20	0.032 (0.813)	0.015 (0.381)	0.035 (0.889)	0.132 x 0.194 (3.35 x 4.93)	23	(34.3)
20 S* (7/28)	0.038 (0.965)	0.015 (0.381)	0.035 (0.889)	0.138 x 0.206 (3.50 x 5.23)	25	(37.3)
18	0.040 (1.02)	0.020 (0.508)	0.035 (0.889)	0.158 x 0.230 (3.81 x 5.48)	31	(46.2)
18 S* (7/26)	0.048 (1.22)	0.020 (0.508)	0.035 (0.889)	0.158 x 0.246 (4.01 x 6.25)	32	(47.7)
16	0.051 (1.29)	0.020 (0.508)	0.035 (0.889)	0.161 x 0.252 (4.09 x 6.40)	38	(56.6)
16 S* (7/24)	0.060 (1.52)	0.020 (0.508)	0.035 (0.889)	0.170 x 0.270 (4.32 x 6.86)	40	(59.6)

* "S" denotes stranded wire: e.g., "20 S (7/28)" is seven strands of 28 gauge wire to make a 20 gauge stranded conductor.

Popular Constructions

Grade	AWG	Wire Type	Limits of Error	Type K	Type J	Type T
Extension	16	Solid	Standard	K16-5-502-UL®	J16-5-502-UL®	
		Stranded	Standard	K16-7-502-UL®	J16-7-502-UL®	
	20	Solid	Standard	K20-5-502-UL®	J20-5-502-UL®	T20-5-502-UL®
		Stranded	Standard	K20-7-502-UL®	J20-7-502-UL®	T20-7-502-UL®

Available Constructions

1 2 3 4 5 6 7 8 9

1. ASTM E 230 Calibrations
E K S
J N T

2-3. AWG
20 16
20 stranded (7/28) 16 stranded (7/28)

4. Conductor Type/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

Diagram showing a sequence of digits: 1, 2, 3, 4, 5, 6, 7, 8, 9. Lines connect these digits to the corresponding sections above. Digit 1 connects to '1. ASTM E 230 Calibrations'. Digits 2 and 3 connect to '2-3. AWG'. Digit 4 connects to '4. Conductor Type/Tolerance'. Digit 5 connects to '5 = Extension grade, solid wire, standard tolerance'. Digit 6 connects to '6 = Extension grade, solid wire, special tolerance'. Digit 7 connects to '7 = Extension grade, stranded wire, standard tolerance'. Digit 8 connects to '8 = Extension grade, stranded wire, special tolerance'. Digit 9 connects to the '9' in the header.

Note: Minimum order sizes apply for non-stock constructions.

Performance Capabilities

- Continuous temperature rating 105°C (220°F)
- Flexible PVC plastic insulation
- UL® listed 300V PLTC
- Listed under UL® Subject 13, File Number E116321
- Passes IEEE 383 70,000 BTU/hour flame test
- Passes VW-1 flame test
- Non-propagating
- UV light resistant

- Available with optional metallic overbraid for additional abrasion resistance

Applications

- General Use extension wire