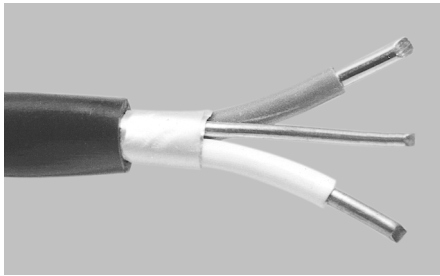


SERV-RITE Wire and Cable

Thermocouple Wire PVC Insulated and Shielded 300 V UL® Listed PLTC Extension Cable SERIES 510 UL®



The SERIES 510 UL® is UL® listed for Power Limited Tray Cable (PLTC) applications. It's an economical PVC insulated, twisted and shielded construction for microprocessor based systems and others that are sensitive to induced voltages and "noise."

The conductors are first insulated with color coded PVC. The next operation consists of twisting the two insulated conductors with a copper drain wire. An aluminized polyester tape is then wrapped around the wires to impart 100 percent shielding. Lastly, another layer of PVC is applied.

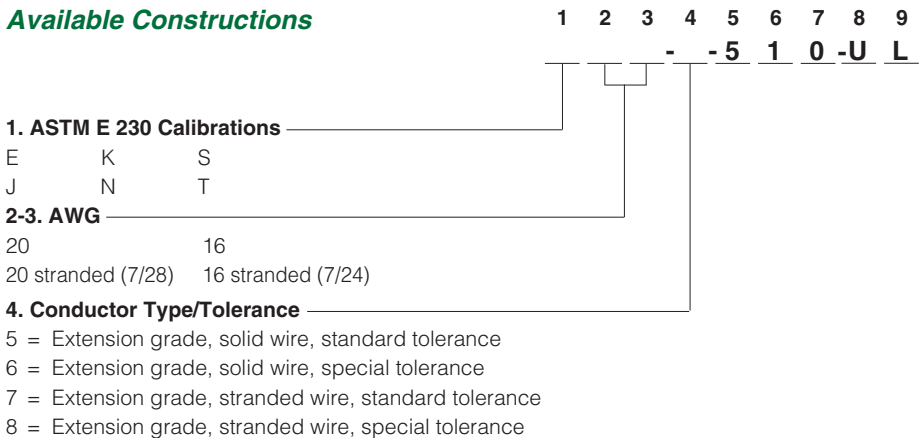
The twisting eliminates most electromagnetic interference while the shield tape minimizes AC "noise" interference.

Popular Constructions

Grade	AWG	Wire Type	Limits of Error	Type K	Type J	Type T
Extension	16	Solid	Standard	K16-5-510-UL®	J16-5-510-UL®	
		Stranded	Standard	K16-7-510-UL®	J16-7-510-UL®	
	20	Solid	Standard	K20-5-510-UL®	J20-5-510-UL®	T20-5-510-UL®
		Stranded	Standard	K20-7-510-UL®	J20-7-510-UL®	T20-7-510-UL®

Note: Bolded products are stocked and shipped in 100, 250, 500 and 1000 foot spools.

Available Constructions



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

Performance Capabilities

- 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
- Continuous temperature rating 105°C (220°F)
- Flexible PVC plastic insulation
- Available with optional metallic overbraid for additional abrasion resistance

Applications

- General use extension wire

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 lbs/1000 ft (kg/km)	
			Conductor in. (mm)	Overall in. (mm)				
20	0.032	(0.813)	0.015 (0.381)	0.035 (0.889)	0.198	(5.03)	27	(40.2)
20 S* (7/28)	0.038	(0.965)	0.015 (0.381)	0.035 (0.889)	0.210	(5.33)	29	(43.2)
18	0.040	(1.02)	0.020 (0.508)	0.035 (0.889)	0.234	(5.94)	35	(52.2)
18 S* (7/26)	0.048	(1.22)	0.020 (0.508)	0.035 (0.889)	0.250	(6.35)	37	(55.1)
16	0.051	(1.29)	0.020 (0.508)	0.035 (0.889)	0.256	(6.50)	48	(71.5)
16 S* (7/24)	0.060	(1.52)	0.020 (0.508)	0.035 (0.889)	0.274	(6.96)	51	(76.0)

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