

PLTC OS Thermocouple Cable

300V 105°C



APPLICATION:

Power Limited Tray Cable PLTC OS Thermocouple Cables are suitable for use in extension grade thermocouple extension applications. They are suitable for wet or dry applications, indoor or outdoor locations, installed in cable trays, ducts, aerially or conduits and for applications up to 300 volts and temperatures up to 105°C. The cables may be used in Class 1, Div 2 hazardous locations per NEC.

CONDUCTORS:

- Solid thermocouple extension wire per ASTM E230 and ANSI MC96.1 (12 to 22 AWG)

INSULATION:

- Flame retardant polyvinyl chloride (PVC)

COLOR CODE:

Per ASTM E230 & ANSI MC96.1, numbered on positive conductor

COMMUNICATION WIRE:

- 22 AWG 7-strand copper insulated with nominal .015" orange PVC (4 pair and larger)

SHIELD:

- 0.002" overall polyester aluminum backed foil tape with 25% overlap and a 20 AWG 7-strand tinned copper drain wire

JACKET:

- Flame retardant Polyvinyl chloride (PVC) jacket, which is water, chemical, sunlight and abrasion resistant, with ripcord under jacket

STANDARDS:

- UL 13 Type PLTC
- Passes IEEE 383 Flame Test and VW-1 Flame Test
- Complies with NEC 725 for use in Class 2 and Class 3 circuits

Part Number	Conductor Size	No. of Pairs	Insulation Thickness		Jacket Thickness		Overall Diameter		Net Weight
	AWG		inches	mm	inches	mm	inches	mm	lbs/kft
16-1PR/**/OS	16	1	0.016	0.40	0.037	0.94	0.256	6.50	43
18-1PR/**/OS	18	1	0.016	0.40	0.037	0.94	0.234	5.94	34
20-1PR/**/OS	20	1	0.016	0.40	0.037	0.94	0.218	5.54	28

All values are nominal and subject to correction

Replace ** in part number with the ASA type from chart below

Type Designations							
ASA Type	Alloys		Insulation Colors		Jacket Color	Temperature Range	Limits of Error
	Positive	Negative	Positive	Negative			
EX	chromel	constantan	purple	red	purple	0 to +200°C	± 1.7°C
JX	iron	constantan	white	red	black	0 to +200°C	± 2.2°C
KX	chromel	alumel	yellow	red	yellow	0 to +200°C	± 2.2°C
TX	copper	constantan	blue	red	blue	0 to +100°C	± 1.0°C



1-800-945-5542
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