

PLTC SPOS Thermocouple Cable

300V 105°C



APPLICATION:

Power Limited Tray Cable (PLTC) SPOS 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 volt 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:

- 0.00135" Polyester backed aluminum foil tape with 25% overlap and a 22 AWG 7-strand tinned copper drain wire on each pair
- 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
16-02PR/**/SPOS	16	2	0.016	0.40	0.053	1.35	0.464	11.8	109
16-04PR/**/SPOS	16	4	0.016	0.40	0.053	1.35	0.536	13.6	165
16-08PR/**/SPOS	16	8	0.016	0.40	0.064	1.63	0.710	18.0	299
16-12PR/**/SPOS	16	12	0.016	0.40	0.064	1.63	0.835	21.2	402
16-16PR/**/SPOS	16	16	0.016	0.40	0.074	1.88	0.947	24.1	530
16-20PR/**/SPOS	16	20	0.016	0.40	0.074	1.88	1.024	26.0	640
16-24PR/**/SPOS	16	24	0.016	0.40	0.074	1.88	1.136	28.9	756
16-36PR/**/SPOS	16	36	0.016	0.40	0.085	2.16	1.289	32.7	1094



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Part Number	Conductor Size	No. of Pairs	Insulation Thickness		Jacket Thickness		Overall Diameter		Net Weight
	AWG		inches	mm	inches	mm	inches	mm	lbs/kft
18-02PR/**/SPOS	18	2	0.016	0.40	0.053	1.35	0.422	10.7	86
18-04PR/**/SPOS	18	4	0.016	0.40	0.053	1.35	0.485	12.3	126
18-08PR/**/SPOS	18	8	0.016	0.40	0.064	1.63	0.641	16.3	226
18-12PR/**/SPOS	18	12	0.016	0.40	0.064	1.63	0.751	19.1	311
18-16PR/**/SPOS	18	16	0.016	0.40	0.064	1.63	0.831	21.1	392
18-20PR/**/SPOS	18	20	0.016	0.40	0.074	1.88	0.919	23.3	491
18-24PR/**/SPOS	18	24	0.016	0.40	0.074	1.88	1.017	25.8	578
18-36PR/**/SPOS	18	36	0.016	0.40	0.074	1.88	1.132	28.8	810
20-02PR/**/SPOS	20	2	0.016	0.40	0.042	1.07	0.370	9.4	60
20-04PR/**/SPOS	20	4	0.016	0.40	0.053	1.35	0.448	11.4	103
20-08PR/**/SPOS	20	8	0.016	0.40	0.053	1.35	0.569	14.5	169
20-12PR/**/SPOS	20	12	0.016	0.40	0.064	1.63	0.689	17.5	248
20-16PR/**/SPOS	20	16	0.016	0.40	0.064	1.63	0.761	19.3	310
20-20PR/**/SPOS	20	20	0.016	0.40	0.064	1.63	0.823	20.9	371
20-24PR/**/SPOS	20	24	0.016	0.40	0.074	1.88	0.931	23.7	449
20-36PR/**/SPOS	20	36	0.016	0.40	0.074	1.88	1.034	26.3	629

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



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