

Little Rock **Virginia Beach**
800-945-5542 **757-361-0207**

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888-388-6280 **859-727-6100**



INSTRUMENTATION CABLE

Multiple Pairs or Triads Overall Shield or Individual/Overall Shield

UL Power Limited Tray Cable (PLTC) 300 Volt 105°C

Application: Cables are UL listed as Type PLTC for use in accordance with article 725, Class 2 and Class 3 Circuits and are suitable for installation in wet or dry locations and conductor temperature to 105°C. Cable jackets are classified as impervious to moisture and vapor penetration, and non-propagating per UL subject 13. Approved for cable tray use in Class 1, Division 2 Hazardous Areas and Non-hazardous Areas, raceway, conduit and supported by messenger wires.

Construction: • Conductors are soft bare annealed copper, 7 strand concentric per ASTM B-3 and Class B per ASTM B-8.

• Insulation: Flame-retardant polyvinyl chloride (PVC) rated 105°C in accordance with UL subject 13, and having a nominal thickness of .015". • Color Coding: Pairs are coded black & white. Triads are coded black, white, & red.

• Identification: Each pair or triad is sequentially numbered for ease of reference and installation checkout. • Shielding: An Aluminum-Mylar tape shield provides 100% coverage and each shield includes a 7 strand tinned copper drain wire. • Jacket (PVC): The jacket is black polyvinyl chloride and is flame-retardant, moisture and sunlight resistant, rated at 105°C, and has a rip-cord applied longitudinally under the jacket to facilitate stripping.

Options: Optional color code upon special order. Tinned copper conductor Armored and Jacketed.

Physical Characteristics	Test Method	Insulation	Jacket
Temperature Rating	UL Subject 13	105°C	105°C
Tensile Strength (Min. PSI @ 75°F)	UL Subject 13	1500 PSI	1500 PSI
Ultimate Elongation (Min % @ 75°F)	UL Subject 13	100%	100%
Deformation (T ² / T ¹ Max)	UL Subject 13	50%	50%
Air Oven Aging (168 hrs. @ 136°C)	UL Subject 13		
% Retained Tensile		70%	
% Retained Elongation		65%	
Air Oven Aging (168 hrs. @ 121°C)	UL Subject 13		
% Retained Tensile			70%
% Retained Elongation			45% (die cut)
Cold Bend (@ -20°C) 72 hrs.	UL Subject 13	No Cracks	No Cracks
Flammability	UL Subject 13		
Horizontal		Pass	Pass
Vertical & 70,000BTU			
Conductor Corrosion (168 hrs. @ 136°C)	UL Subject 13	None	
Heat Shock 168 hrs. @ 136°C		No Cracks	
168 hrs. @ 121°C			No Cracks
Shrinkage Test (6 hrs. @ 121°C 1/18" Max)	UL Subject 13	1/18" or less	
Electrical Specifications			
Maximum DC Resistance @ 20°C ohms/1000'	10.5 ohms		

* Values stated are Minimum requirements as outlined in the applicable Standard and in all cases are met or exceeded.

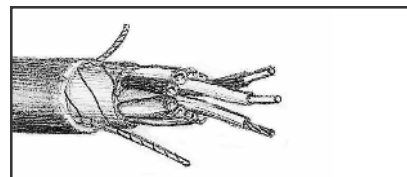
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INSTRUMENTATION CABLE - P.O.S. - PLTC

Multiple Pairs or Triads Overall Shield Only

UL Power Limited Tray Cable (PLTC)

300 Volt 105°C

Construction Specification	Pairs	Triads
Conductor	20 gauge 7 strand concentric bare copper Class B	20 gauge 7 strand concentric bare copper Class B
Insulation	15 mils nominal, 105°C FR-PVC	15 mils nominal, 105°C FR-PVC
No. of Conductors	2	3
Color Code	black and white	black, white, and red
Group Identification	each pair numbered	each triple numbered
Lay of Twist	1½" to 2½" staggered	1½" to 2½" staggered
Cable Shield	100% coverage, Aluminum-Mylar® tape shield and a 22 gauge 7 strand tinned copper drain wire	100% coverage, Aluminum-Mylar® tape shield and a 22 gauge 7 strand tinned copper drain wire
Jacket	black 105°C FR-PVC with rip-cord	black 105°C FR-PVC with rip-cord
Communications Wire	22 gauge 7 strand copper with 15 mils of orange PVC insulation on 4 pair/ triad and higher.	22 gauge 7 strand copper with 15 mils of orange PVC insulation on 4 triad and higher

Catalog No.	Size AWG	No. of Pairs	No. of Triads	Jacket Wall	Overall Diameter	Nominal Weight	Max. Pulling Tension
P01K2	20	1		.035"	.212"	27 lbs/mft	25 lbs
P02K2	20	2		.035"	.264"	49 lbs/mft	40 lbs
P03K2	20	4		.040"	.353"	87 lbs/mft	79 lbs
P04K2	20	8		.050"	.485"	138 lbs/mft	177 lbs
P05K2	20	12		.050"	.570"	187 lbs/mft	210 lbs
P06K2	20	16		.050"	.662"	248 lbs/mft	251 lbs
P07K2	20	20		.060"	.726"	297 lbs/mft	364 lbs
P08K2	20	24		.060"	.783"	351 lbs/mft	405 lbs
P09K2	20	36		.060"	.951"	590 lbs/mft	601 lbs
P10K2	20	50		.070"	1.095"	671 lbs/mft	824 lbs
P11K2	20		1	.035"	.222"	33 lbs/mft	34 lbs
P12K2	20		4	.050"	.433"	116 lbs/mft	112 lbs
P13K2	20		8	.050"	.556"	407 lbs/mft	251 lbs
P14K2	20		12	.060"	.690"	282 lbs/mft	328 lbs
P15K2	20		16	.060"	.765"	359 lbs/mft	418 lbs
P16K2	20		24	.070"	.963"	529 lbs/mft	592 lbs
P17K2	20		36	.070"	1.099"	735 lbs/mft	960 lbs
P18K2	20		50	.080"	1.312"	961 lbs/mft	1238 lbs

• Min. Bend Radius is Cable Overall Diameter x 8

** Data Subject To Standard Industry Tolerances

* Shipping Tolerances +/-10%

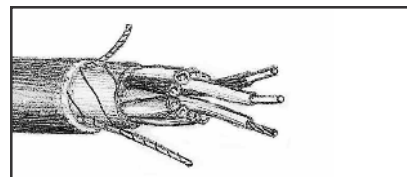
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INSTRUMENTATION CABLE - P.O.S. - PLTC

Multiple Pairs or Triads Overall Shield Only

UL Power Limited Tray Cable (PLTC)

300 Volt 105°C

Construction Specification	Pairs	Triads
Conductor	18 gauge 7 strand concentric bare copper Class B	18 gauge 7 strand concentric bare copper Class B
Insulation	15 mils nominal, 105°C FR-PVC	15 mils nominal, 105°C FR-PVC
No. of Conductors	2	3
Color Code	black and white	black, white, and red
Group Identification	each pair numbered	each triple numbered
Lay of Twist	1½" to 2½" staggered	1½" to 2½" staggered
Cable Shield	100% coverage, Aluminum-Mylar® tape shield and a 7 strand tinned copper drain wire	100% coverage, Aluminum-Mylar® tape shield and a 7 strand tinned copper drain wire
Jacket	black 105°C FR-PVC with rip-cord	black 105°C FR-PVC with rip-cord
Communications Wire	22 gauge 7 strand copper with 15 mils of orange PVC insulation on 4 pair/ triad and higher.	22 gauge 7 strand copper with 15 mils of orange PVC insulation on 4 triad and higher

Catalog No.	Size AWG	No. of Pairs	No. of Triads	Jacket Wall	Overall Diameter	Nominal Weight	Max. Pulling Tension
P01K3	18	1		.035"	.230"	34 lbs/mft	39 lbs
P02K3	18	2		.045"	.302"	67 lbs/mft	64 lbs
P03K3	18	4		.050"	.413"	105 lbs/mft	116 lbs
P04K3	18	8		.050"	.541"	176 lbs/rft	220 lbs
P05K3	18	12		.060"	.659"	257 lbs/mft	323 lbs
P06K3	18	16		.060"	.742"	326 lbs/mft	426 lbs
P07K3	18	24		.072"	.901"	476 lbs/mft	633 lbs
P08K3	18	36		.072"	1.071"	675 lbs/mft	944 lbs
P09K3	18	50		.072"	1.236"	901 lbs/mft	1306 lbs
P10K3	18		1	.035"	.24"	42 lbs/mft	51 lbs
P11K3	18		2	.050"	.413"	96 lbs/mft	90 lbs
P12K3	18		4	.050"	.476"	141 lbs/mft	165 lbs
P13K3	18		8	.060"	.635"	254 lbs/mft	323 lbs
P14K3	18		12	.060"	.704"	358 lbs/mft	478 lbs
P15K3	18		16	.060"	.849"	454 lbs/mft	633 lbs
P16K3	18		24	.072"	1.070"	674 lbs/mft	944 lbs
P17K3	18		36	.072"	1.224"	959 lbs/mft	1410 lbs
P18K3	18		50	.080"	1.462"	1321 lbs/mft	1953 lbs

• Min. Bend Radius is Cable Overall Diameter x 8

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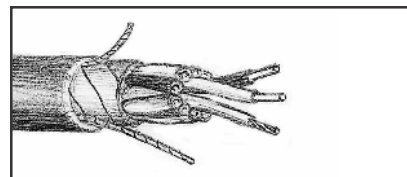
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INSTRUMENTATION CABLE - P.O.S. - PLTC

Multiple Pairs or Triads Overall Shield Only

UL Power Limited Tray Cable (PLTC) 300 Volt 105°C

Construction Specification	Pairs	Triads
Conductor	16 gauge 7 strand concentric bare copper Class B	16 gauge 7 strand concentric bare copper Class B
Insulation	15 mils nominal, 105°C FR-PVC	15 mils nominal, 105°C FR-PVC
No. of Conductors	2	3
Color Code	black and white	black, white, and red
Group Identification	each pair numbered	each triple numbered
Lay of Twist	1½" to 2½" staggered	1½" to 2½" staggered
Cable Shield	100% coverage, Aluminum-Mylar® tape shield and a 7 strand tinned copper drain wire	100% coverage, Aluminum-Mylar® tape shield and a 7 strand tinned copper drain wire
Jacket	black 105°C FR-PVC with rip-cord	black 105°C FR-PVC with rip-cord
Communications Wire	22 gauge 7 strand copper with 15 mils of orange PVC insulation on 4 pair/ triad and higher.	22 gauge 7 strand copper with 15 mils of orange PVC insulation on 4 triad and higher

Catalog No.	Size AWG	No. of Pairs	No. of Triads	Jacket Wall	Overall Diameter	Nominal Weight	Max. Pulling Tension
P01K4	16	1		.035"	.254"	47 lbs/mft	62 lbs
P02K4	16	2		.045"	.339"	91 lbs/mft	103 lbs
P03K4	16	4		.052"	.464"	142 lbs/mft	268 lbs
P04K4	16	8		.060"	.633"	256 lbs/mft	350 lbs
P05K4	16	12		.060"	.748"	357 lbs/mft	516 lbs
P06K4	16	16		.060"	.844"	454 lbs/mft	681 lbs
P07K4	16	24		.072"	1.026"	667 lbs/mft	1011 lbs
P08K4	16	36		.072"	1.224"	956 lbs/mft	1507 lbs
P09K4	16	50		.080"	1.437"	1314 lbs/mft	2085 lbs
P10K4	16		1	.035"	.267"	58 lbs/mft	82 lbs
P11K4	16		2	.052"	.460"	126 lbs/mft	144 lbs
P12K4	16		4	.052"	.533"	192 lbs/mft	268 lbs
P13K4	16		8	.060"	.713"	352 lbs/mft	516 lbs
P14K4	16		12	.060"	.863"	500 lbs/mft	763 lbs
P15K4	16		16	.072"	.981"	661 lbs/mft	1011 lbs
P16K4	16		24	.072"	1.212"	954 lbs/mft	1507 lbs
P17K4	16		36	.080"	1.410"	1349 lbs/mft	2250 lbs
P18K4	16		50	.090"	1.681"	1923 lbs/mft	3117 lbs

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