

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

Baton Rouge **Las Vegas**
888-754-5707 **702-696-0001**

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



www.prioritywire.com

INSTRUMENTATION CABLE

Multiple Twisted Pairs with Overall Shield or Individual/Overall Shield UL Type TC 600 Volt 90°C

Application: Cables are UL listed under Article 336, of the NEC. Designated for use as control, signal, and communication circuits, and approved for cable tray applications. Cables may be used in raceways and supported by messenger wire in outdoor applications, and are approved for direct burial applications, and are also recommended for installation in conduit. Approved for cable tray use in Class 1, Division 2 Hazardous areas. **Construction:** • **Conductors:** Soft bare annealed copper, 7 strand concentric per ASTM B-3 and Class B per ASTM B-8 • **Insulation:** 15 mils nominal flame-retardant polyvinyl chloride (PVC) and 4 mils nominal nylon rated at 600 volts and 90°C type TFN per UL 62. • **Color Coding:** each pair is colored black & white each triad is colored black, white, & red • **Identification:** Each pair/triad is numbered for ease of reference and installation check. • **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 90°C, and has a rip-cord applied longitudinally under the jacket to facilitate stripping. • **Flame Test:** Cable passes the IEEE-383 vertical flame test (70,000 BTU) - UL 1581. **Option:** Optional color code upon special order. Tinned Copper Conductors Armored and Jacketed

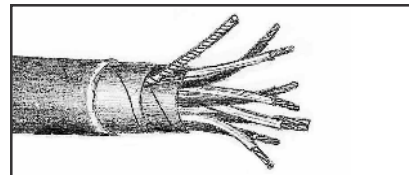
Physical Characteristics	Test Method	Insulation	Jacket
Temperature Rating	UL Subject 1277 UL Subject 83 UL Subject 62	90°C Dry/75% Wet or 90°C Dry Only	90°C
Tensile Strength (Min. PSI @ 75°F)	UL Subject 62&63 UL Subject 1277	2000 PSI	1500 PSI
Ultimate Elongation (Min. % @ 75°F)	UL Subject 62 & 83 UL Subject 1277	150%	150%
Deformation	UL Subject 62 & 83	25%	50%
Air Oven Aging (168 hrs. @ 136°C) % Retained Tensile % Retained Elongation	UL Subject 62 & 83	75% 65%	
Air Oven Aging (168 hrs. @ 121°C) % Retained Tensile % Retained Elongation	UL Subject 1277 (die cut specimen)		70% 45%
Cold Bend (@ -25°C) 1 hour 72 hours Flammability Primaries-Vertical Cable-70,000 BTU	UL Subject 62 & 83 UL Subject 1277 UL Subject 62 & 83 UL Subject 1277	No Cracks Pass	No Cracks Pass
Heat Shock (1 hrs. @ 121°C)	UL Subject 83 UL Subject 1277	No Cracks	No Cracks
Electrical Specifications			
Dielectric Continuity		6-7KVAC (Spark Test) 100%	2000 Volts AC 100%
Insulation Resistance (60°F or rated temp.)	Subject 62 & 83	2.5 Megohms/1,000' (TFN)	
Maximum DC Resistance @ 20°C in ohms/1000'	18 AWG: 6.64 16AWG: 4.18		

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INSTRUMENTATION CABLE - P.O.S./TC

Multiple Twisted Pairs With Overall Shield

UL Type TC 600 Volt 90°C

Construction Specification	
Conductor	18 and 16 gauge 7 strand concentric bare copper, Class B
Insulation	15 mils nominal, PVC, 4 mils nylon
No. of Conductors	2
Color Code	black and white
Group Identification	each pair numbered
Lay of Twist	1½" to 2½" staggered
Cable Shield	100% coverage, Aluminum-Mylar® tape shield and a 7 strand tinned copper drain wire
Jacket	Black 90°C FR-PVC with rip-cord

Catalog No.	Size AWG	No. of Pairs	Jacket Thickness	Overall Diameter	Max. Pulling Tension	Nominal Weight
P01K9	18	1	.045"	.270"	39 lbs	42 lbs/mft
P02K9	18	2	.050"	.340"	64 lbs	77 lbs/mft
P03K9	18	4	.050"	.442"	116 lbs	114 lbs/mft
P04K9	18	8	.060"	.617"	220 lbs	208 lbs/mft
P05K9	18	12	.060"	.728"	323 lbs	286 lbs/mft
P06K9	18	16	.060"	.821"	426 lbs	361 lbs/mft
P07K9	18	24	.080"	1.018"	633 lbs	544 lbs/mft
P08K9	18	36	.080"	1.209"	944 lbs	765 lbs/mft
P09K9	18	50	.080"	1.396"	1306 lbs	1017 lbs/mft
P10K9	16	1	.045"	.294"	62 lbs	55 lbs/mft
P11K9	16	2	.050"	.377"	103 lbs	103 lbs/mft
P12K9	16	4	.060"	.494"	189 lbs	152 lbs/mft
P13K9	16	8	.060"	.690"	350 lbs	279 lbs/mft
P14K9	16	12	.060"	.817"	516 lbs	388 lbs/mft
P15K9	16	16	.080"	.964"	681 lbs	528 lbs/mft
P16K9	16	20	.080"	1.058"	846 lbs	636 lbs/mft
P17K9	16	24	.080"	1.144"	1011 lbs	745 lbs/mft
P18K9	16	36	.080"	1.354"	1507 lbs	1057 lbs/mft
P19K9	16	50	.080"	1.578"	2080 lbs	1417 lbs/mft

* Min. Bend Radius is Cable Overall Diameter x 8

** Data Subject To Standard Industry Tolerances

* Shipping Tolerances +/-10%

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