

COPPER INSTRUMENTATION CABLE

Overall Shield Served Wire Armor
UL Listed 300 Volt PVC Insulated 221°F (105°C)

CSA Certified Constructions Also Available

Applications

- Petrochemical Plants
- Utilities and Industrial Plants
- Instrumentation Circuits
- Suitable for Direct Burial and Suspension Applications
- For use in NEC Article 725 Class 1 Division 2 Hazardous Locations
- Complies with NEC 725 for use in Class 2 and Class 3 Circuits

Product Features

- UL Listed Subject 13 PLTC
- Rated 105C 300 Volt
- Flame Retardant
- Passes IEEE 383 Flame Test
- Passes VW-1 Flame Test
- Available as Type ITC
- Resists Rodent and Mechanical Abuse
- Excellent Longitudinal Strength
- Sunlight Resistant

Product Specifications

Conductors: Solid or stranded, bare or tinned copper
12 to 22 AWG (2.44 to .63MM)

Insulation: Nominal .016" (.40MM) flame retardant PVC

Color Code: Pairs-black & white, numbered. Triads-black, white & red, numbered (other colors available)

Construction: Twisted pairs or triads

Communication Wire: 22 AWG (.61MM) 7-strand copper insulated with nominal .015" (.38MM) orange PVC (4 pair/triad and larger)

Cable Shield: .002" (.05MM) aluminum/polyester tape, 25% overlap

Cable Drain Wire: 20 AWG (.91MM) 7-strand tinned copper

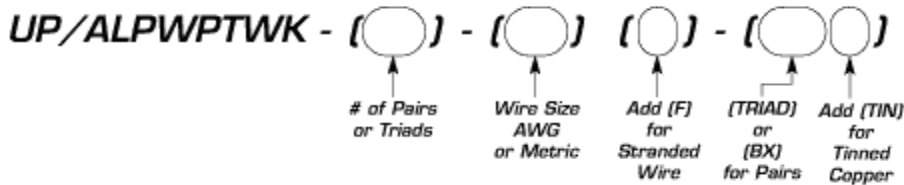
Inner Jacket: Flame retardant PVC with ripcord under jacket

Armor: Galvanized steel served wire, 80% nominal coverage

Outer Jacket: Flame retardant PVC with ripcord under jacket



Ordering Code



Temperature Controls Pty Ltd

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Melbourne: 8/280 Whitehall St Yarraville VIC 3013 Ph: (03) 9687 0000 Fx: (03) 9687 1900

Web: www.temperature.com.au Email: sales@temperature.com.au

Wire Size	Numbers of Pairs/Triads	Inner/Outer Jacket Thickness		Outer Diameter		Bend Radius		Pull Tension		Net Weight	
		inches	(MM)	inches	(MM)	inches	(MM)	LB	KG	LB/MF	KG/KM
16 AWG (1.47MM)	1	.037 (0.94)	.053 (1.35)	.422	(10.7)	5.1	(129)	97	(44)	128	(191)
	2	.053 (1.35)	.053 (1.35)	.599	(15.2)	7.2	(183)	175	(79)	243	(362)
7-Strand	4	.053 (1.35)	.064 (1.63)	.696	(17.7)	8.4	(212)	288	(131)	345	(514)
	8	.064 (1.63)	.064 (1.63)	.870	(22.1)	10.4	(265)	545	(248)	581	(865)
	12	.064 (1.63)	.074 (1.88)	1.028	(26.1)	12.3	(313)	822	(374)	842	(1253)
	16	.064 (1.63)	.074 (1.88)	1.118	(28.4)	13.4	(341)	1017	(462)	989	(1472)
	24	.074 (1.88)	.085 (2.16)	1.349	(34.3)	16.2	(411)	1528	(694)	1470	(2187)
	36	.074 (1.88)	.085 (2.16)	1.484	(37.7)	17.8	(452)	2089	(949)	2417	(3596)
	1	.042 (1.07)	.053 (1.35)	.446	(11.3)	5.4	(136)	123	(56)	151	(224)
	4	.053 (1.35)	.064 (1.63)	.813	(20.7)	9.8	(249)	439	(199)	490	(729)
	8	.064 (1.63)	.074 (1.88)	1.058	(26.9)	12.7	(322)	832	(378)	870	(1294)
	12	.074 (1.88)	.074 (1.88)	1.241	(31.5)	14.9	(378)	1151	(523)	1149	(1709)
24	.074 (1.88)	.085 (2.16)	1.658	(42.1)	19.9	(505)	2175	(989)	2035	(3028)	
18 AWG (1.2MM)	1	.037 (0.94)	.042 (1.07)	.376	(9.6)	4.5	(115)	76	(35)	104	(155)
	2	.042 (1.07)	.053 (1.35)	.535	(13.6)	6.4	(163)	132	(60)	194	(288)
7-Strand	4	.053 (1.35)	.064 (1.63)	.646	(16.4)	7.8	(197)	215	(98)	289	(430)
	8	.053 (1.35)	.064 (1.63)	.781	(19.8)	9.4	(238)	395	(179)	458	(682)
	12	.064 (1.63)	.074 (1.88)	.917	(23.3)	11.0	(280)	541	(246)	615	(915)
	16	.064 (1.63)	.074 (1.88)	.994	(25.2)	11.9	(303)	662	(301)	715	(1064)
	24	.074 (1.88)	.074 (1.88)	1.177	(29.9)	13.4	(340)	1006	(457)	1039	(1545)
	36	.074 (1.88)	.085 (2.16)	1.352	(34.3)	16.2	(412)	1480	(673)	1481	(2204)
	1	.037 (0.94)	.053 (1.35)	.410	(10.4)	4.9	(125)	88	(40)	122	(182)
	4	.053 (1.35)	.064 (1.63)	.725	(18.4)	8.7	(221)	286	(130)	357	(531)
	8	.064 (1.63)	.074 (1.88)	.942	(23.9)	11.3	(287)	541	(246)	628	(935)
	12	.064 (1.63)	.074 (1.88)	1.113	(28.3)	13.4	(339)	829	(377)	893	(1328)
24	.074 (1.88)	.085 (2.16)	1.502	(38.2)	18.0	(458)	1566	(712)	1611	(2400)	
20 AWG (0.91MM)	1	.037 (0.94)	.042 (1.07)	.356	(9.0)	4.3	(109)	55	(26)	91	(136)
	2	.042 (1.07)	.053 (1.35)	.490	(12.4)	5.9	(150)	94	(43)	157	(235)
7-Strand	4	.053 (1.35)	.053 (1.35)	.570	(14.5)	6.8	(174)	150	(68)	221	(329)
	8	.053 (1.35)	.064 (1.63)	.699	(17.8)	8.4	(213)	251	(114)	342	(510)
	12	.053 (1.35)	.064 (1.63)	.806	(20.5)	9.7	(246)	385	(175)	476	(708)
	16	.064 (1.63)	.074 (1.88)	.916	(23.3)	11.0	(279)	479	(218)	603	(897)
	24	.064 (1.63)	.074 (1.88)	1.062	(27.0)	12.7	(324)	724	(329)	833	(1240)
	36	.074 (1.88)	.074 (1.88)	1.184	(30.1)	14.2	(361)	958	(435)	1058	(1574)
	1	.037 (0.94)	.042 (1.07)	.366	(9.3)	4.4	(112)	68	(31)	101	(150)
	4	.053 (1.35)	.064 (1.63)	.672	(17.1)	8.1	(205)	216	(98)	308	(459)
	8	.064 (1.63)	.064 (1.63)	.849	(21.6)	10.2	(259)	403	(183)	612	(910)
	12	.064 (1.63)	.074 (1.88)	.992	(25.2)	11.9	(302)	534	(243)	663	(986)
24	.074 (1.88)	.085 (2.16)	1.370	(34.8)	16.4	(418)	1137	(517)	1326	(1972)	

The products referenced above represent the most popular constructions. Other constructions can be manufactured to meet individual specification and application requirements. Contact factory for additional information.

Electrical Characteristics

Insulation passes 3000 V ac spark test per UL Subject 13.
 Completed cable passes a dielectric test of 2500 V dc for 10 seconds, conductor to conductor and conductor to shield, per UL Subject 13

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