



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

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

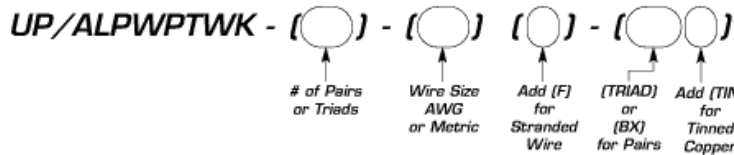
Cable Drain Wire: 20 AWG (.91MM) 7-strand tinned copper

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



(Call for CSA Data)

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/ME	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) 7-Strand										
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)
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) 7-Strand										
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)
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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A Marmon Wire & Cable/Berkshire Hathaway Company