



COPPER INSTRUMENTATION CABLE
Individual/Overall Shield Metal Bond 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

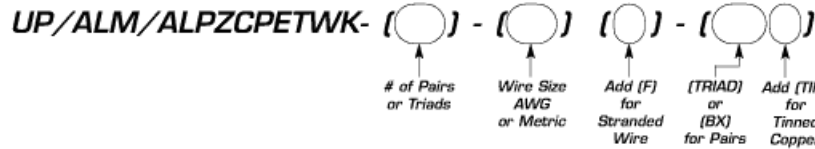
- UL Listed Subject 13 PLTC
- Rated 105C 300 Volt
- Flame Retardant
- Passes IEEE 383 Flame Test
- Passes VW-1 Flame Test
- Sunlight Resistant
- Available as Type ITC
- Moisture-Proof Barrier
- Excellent Mechanical Strength



Product Specifications

- Conductors: Solid or stranded, bare or tinned copper
12 to 22 AWG (2.44 to .61MM)
- 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
- Individual Shield: .00135" (.03MM) aluminum/polyester tape, 25% overlap
- Pair Drain Wire: 22 AWG (.61MM) 7-strand tinned copper
- 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
- Metal Bond Barrier: Continuously bonded .012" (.30MM) aluminum/composite tape
- Outer Jacket: Flame retardant CPE (chlorinated polyethylene) bonded to tape, ripcord under tape

Ordering Code



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)	2...	.053 (1.35)	.064 (1.63)	.647 (16.4)	7.8 (197)	100 (45)	197 (293)				
	4...	.053 (1.35)	.064 (1.63)	.723 (18.4)	8.7 (220)	192 (87)	266 (395)				
7-Strand	8...	.064 (1.63)	.074 (1.88)	.925 (23.5)	11.1 (282)	376 (171)	450 (669)				
	10...	.064 (1.63)	.074 (1.88)	1.050 (26.7)	12.6 (320)	468 (213)	536 (798)				
	12...	.064 (1.63)	.074 (1.88)	1.057 (26.8)	12.7 (322)	560 (255)	593 (882)				
	16...	.074 (1.88)	.074 (1.88)	1.174 (29.8)	14.1 (358)	744 (338)	750 (1116)				
	20...	.074 (1.88)	.085 (2.16)	1.278 (32.5)	15.3 (390)	928 (422)	907 (1349)				
	24...	.074 (1.88)	.085 (2.16)	1.396 (35.5)	16.8 (426)	1112 (505)	1052 (1566)				
	36...	.085 (2.16)	.085 (2.16)	1.556 (39.5)	18.7 (474)	1664 (756)	1449 (2156)				
	...4	.064 (1.63)	.064 (1.63)	.802 (20.4)	9.6 (244)	274 (125)	343 (511)				

	...8	.064 (1.63)	.074 (1.88)	1.003 (25.5)	12.0 (306)	540 (245)	495 (736)
	...12	.074 (1.88)	.074 (1.88)	1.196 (30.4)	14.4 (366)	806 (366)	788 (1172)
	...24	.085 (2.16)	.085 (2.16)	1.616 (41.0)	19.4 (493)	1604 (729)	1422 (2116)
18 AWG (1.2MM) 7-Strand	2...	.053 (1.35)	.053 (1.35)	.574 (14.6)	6.9 (175)	70 (32)	156 (233)
	4...	.053 (1.35)	.064 (1.63)	.661 (16.8)	7.9 (201)	132 (60)	213 (317)
	8...	.064 (1.63)	.064 (1.63)	.821 (20.9)	9.9 (250)	256 (116)	342 (509)
	10...	.064 (1.63)	.074 (1.88)	.947 (24.1)	11.3 (288)	318 (145)	423 (629)
	12...	.064 (1.63)	.074 (1.88)	.954 (24.2)	11.4 (291)	380 (173)	462 (688)
	16...	.064 (1.63)	.074 (1.88)	1.037 (26.3)	12.4 (316)	504 (229)	560 (834)
	20...	.074 (1.88)	.074 (1.88)	1.127 (28.6)	13.5 (344)	628 (285)	670 (997)
	24...	.074 (1.88)	.074 (1.88)	1.228 (31.2)	14.7 (374)	752 (342)	781 (1162)
	36...	.074 (1.88)	.085 (2.16)	1.368 (34.7)	16.4 (417)	1124 (511)	1051 (1573)
	...4	.053 (1.35)	.064 (1.63)	.710 (18.0)	8.5 (216)	184 (84)	258 (384)
	...8	.064 (1.63)	.074 (1.88)	.907 (23.0)	10.9 (276)	360 (164)	422 (629)
	...12	.064 (1.63)	.074 (1.88)	1.054 (26.8)	12.6 (321)	536 (244)	567 (844)
	...24	.074 (1.88)	.085 (2.16)	1.420 (36.1)	17.0 (433)	1064 (484)	965 (1435)
20 AWG (0.91MM) 7-Strand	2...	.042 (1.07)	.053 (1.35)	.514 (13.1)	6.2 (157)	50 (23)	124 (185)
	4...	.053 (1.35)	.053 (1.35)	.593 (15.1)	7.1 (181)	92 (42)	173 (257)
	8...	.053 (1.35)	.064 (1.63)	.736 (18.7)	8.8 (224)	176 (80)	272 (405)
	10...	.064 (1.63)	.064 (1.63)	.851 (21.6)	10.2 (259)	218 (99)	336 (500)
	12...	.064 (1.63)	.064 (1.63)	.857 (21.8)	10.3 (261)	260 (118)	367 (546)
	16...	.064 (1.63)	.074 (1.88)	.950 (24.1)	11.4 (290)	344 (156)	457 (680)
	20...	.064 (1.63)	.074 (1.88)	1.011 (25.7)	12.1 (308)	428 (195)	530 (789)
	24...	.074 (1.88)	.074 (1.88)	1.120 (28.4)	13.4 (341)	512 (233)	627 (933)
	36...	.074 (1.88)	.074 (1.88)	1.224 (31.1)	14.7 (373)	764 (347)	823 (1225)
	...4	.053 (1.35)	.064 (1.63)	.657 (16.7)	7.9 (200)	124 (56)	215 (320)
	...8	.064 (1.63)	.064 (1.63)	.814 (20.7)	9.8 (248)	240 (109)	346 (515)
	...12	.064 (1.63)	.074 (1.88)	.963 (24.5)	11.6 (294)	356 (162)	472 (702)
	...24	.074 (1.88)	.085 (2.16)	1.288 (32.7)	15.5 (393)	704 (320)	831 (1235)

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 to shield, per UL Subject 13.



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A Marmon Wire & Cable/Berkshire Hathaway Company