



COPPER CONTROL CABLE

Overall Shield
UL Listed 600 Volt PVC/Nylon Insulated 194°F (90°C)

Applications

- Petrochemical Plants
- Utilities and Industrial Plants
- Power and Control Circuits
- For use in NEC Article 501 ...Class 1 Division 2 Hazardous ...Locations
- Complies with NEC 725 for use ...in Class 1 Control Circuits
- For use in Accordance with ...NEC 340

Product Features

- UL Listed Subject 1277 TC
- Rated 90C 600 Volt
- Flame Retardant
- Primaries Type TFN and THHN
- Passes IEEE 383 Flame Test
- Sunlight Resistant
- Direct Burial
- CPE and TPE Constructions
- ...Are Also Available



Product Specifications

Conductors: Solid or stranded, bare or tinned copper
10 to 18 AWG (2.59 to 1.2MM)

Insulation: Nominal .016" (.40MM) flame retardant
PVC (10 AWG .022" (.56MM))

Insulation Jacket: Nominal .0045" (.11MM) clear nylon

Color Code: Per customer request

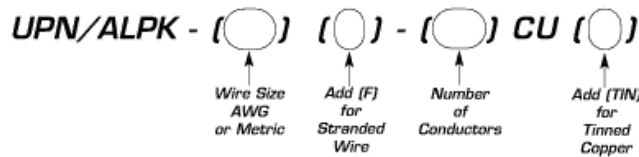
Construction: Cabled conductors

Cable Shield: .002" (.05MM) aluminum/polyester tape, 25% overlap
(Non-shielded constructions are also available)

Cable Drain Wire: 7-strand tinned copper, 2 AWG sizes
smaller than conductor

Outer Jacket: Flame retardant PVC with ripcord under jacket

Ordering Code



(Call for CSA Data)

Wire Size	Numbers of Pairs	Outer Jacket Thickness		Outer Diameter		Bend Radius		Pull Tension		Net Weight	
		inches	(MM)	inches	(MM)	inches	(MM)	LB	KG	LB/MF	KG/KM
12 AWG (2.44MM) 7-Strand	2	.047	(1.19)	.374	(9.5)	2.2	(57)	137	(62)	97	(144)
	3	.047	(1.19)	.394	(10.0)	2.4	(60)	189	(86)	126	(187)
	5	.047	(1.19)	.466	(11.8)	2.8	(71)	293	(133)	184	(274)
	7	.047	(1.19)	.506	(12.9)	3.0	(77)	397	(180)	241	(359)
	9	.064	(1.63)	.622	(15.8)	3.7	(95)	501	(228)	320	(476)
	12	.064	(1.63)	.692	(17.6)	4.2	(105)	657	(299)	409	(609)
	19	.064	(1.63)	.804	(20.4)	4.8	(123)	1031	(464)	607	(903)
25	.085	(2.15)	.978	(24.8)	5.9	(149)	1333	(606)	819	(1219)	
37	.085	(2.15)	1.110	(28.2)	6.7	(169)	1957	(890)	1155	(1719)	
14 AWG (1.80MM)	2	.047	(1.19)	.336	(8.5)	2.0	(51)	86	(39)	71	(106)
	3	.047	(1.19)	.353	(9.0)	2.1	(54)	119	(54)	90	(134)

7-Strand	5	.047	(1.19)	.415	(10.5)	2.5	(63)	185	(84)	130	(193)
	7	.047	(1.19)	.449	(11.4)	2.7	(68)	251	(114)	168	(250)
	9	.064	(1.63)	.553	(14.0)	3.3	(84)	317	(144)	227	(338)
	12	.064	(1.63)	.613	(15.6)	3.7	(93)	416	(189)	285	(424)
	19	.064	(1.63)	.709	(18.0)	4.3	(108)	647	(294)	420	(625)
	25	.064	(1.63)	.822	(20.9)	4.9	(125)	845	(384)	537	(799)
	37	.085	(2.15)	.977	(24.8)	5.9	(149)	1241	(564)	797	(1186)
16 AWG (1.47MM) 7-Strand	2	.047	(1.19)	.308	(7.8)	1.8	(47)	54	(25)	54	(80)
	3	.047	(1.19)	.323	(8.2)	1.9	(49)	74	(34)	68	(101)
	5	.047	(1.19)	.377	(9.6)	2.3	(57)	116	(53)	97	(144)
	7	.047	(1.19)	.407	(10.3)	2.4	(62)	157	(71)	124	(185)
	9	.047	(1.19)	.468	(11.9)	2.8	(71)	198	(90)	157	(234)
	12	.064	(1.63)	.555	(14.1)	3.3	(85)	259	(118)	210	(313)
	19	.064	(1.63)	.639	(16.2)	3.8	(97)	403	(183)	310	(461)
	25	.064	(1.63)	.738	(18.7)	4.4	(112)	526	(239)	389	(579)
37	.085	(2.15)	.879	(22.3)	5.3	(134)	772	(351)	578	(860)	
18 AWG (1.2MM) 7-Strand	2	.047	(1.19)	.284	(7.2)	1.7	(43)	34	(15)	40	(60)
	3	.047	(1.19)	.297	(7.5)	1.8	(45)	47	(21)	48	(71)
	5	.047	(1.19)	.345	(8.8)	2.1	(53)	73	(33)	72	(107)
	7	.047	(1.19)	.371	(10.3)	2.2	(56)	99	(45)	91	(135)
	9	.047	(1.19)	.425	(10.8)	2.6	(65)	125	(57)	109	(162)
	12	.047	(1.19)	.471	(12.0)	2.8	(71)	164	(75)	138	(208)
	19	.064	(1.63)	.579	(14.7)	3.5	(88)	255	(116)	220	(327)
	25	.064	(1.63)	.666	(16.9)	4.0	(101)	333	(151)	279	(415)
37	.064	(1.63)	.753	(19.1)	4.5	(115)	489	(222)	382	(568)	

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 6000 V ac spark test per UL Subject 1277.

Completed cable passes a dielectric test of 3000 V dc for

60 seconds, conductor to conductor and conductor to shield, per UL Subject 1277.



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A Marmon Wire & Cable/Berkshire Hathaway Company