

CONSTRUCTION CHARACTERISTICS TABLE - AC90

Size AWG or kcmil	Insulation Thickness		Bonding Wire* Size AWG		Approximate Diameter				Approximate Net Cable Weight				Ampacity 30°C Ambient (amps)	
	mm	in	Copper	Aluminum	Copper Conductor		Aluminum Conductor		Copper Conductor		Aluminum Conductor		Copper	Aluminum
					mm	in	mm	in	kg/km	lbs/kft	kg/km	lbs/kft		
2 CONDUCTORS (PLUS BONDING WIRE)														
14 (1)	0.76	0.030	14	--	12.0	0.47	--	--	145	98	--	--	15	--
12 (1)	0.76	0.030	14	12	12.8	0.51	12.8	0.51	176	115	114	76	20	15
10 (1)	0.76	0.030	12	10	13.9	0.55	13.9	0.55	233	156	137	92	30	25
3 CONDUCTORS (PLUS BONDING WIRE)														
14 (1)	0.76	0.030	14(1)	--	12.5	0.49	--	--	170	115	--	--	15	--
12 (1)	0.76	0.030	14(1)	12(1)	13.4	0.53	13.4	0.53	215	145	140	95	20	15
10 (1)	0.76	0.030	12(1)	10(1)	14.6	0.57	14.6	0.57	290	195	175	115	30	25
8 (7)	1.14	0.045	10(1)	10(1)	19.1	0.75	19.1	0.75	505	340	300	200	45	30
6 (7)	1.14	0.045	8(7)	8(7)	21.3	0.84	20.6	0.81	705	475	380	255	65	55 [#]
4 (7)	1.14	0.045	8(7)	6(7)	24.1	0.95	23.1	0.91	965	650	490	330	85	65
3 (7)	1.14	0.045	6(7)	6(7)	25.4	1.00	24.4	0.96	1195	800	560	375	105	75
2 (7)	1.14	0.045	6(7)	6(7)	26.9	1.06	25.9	1.02	1410	950	640	430	120	95 [#]
1 (19)	1.40	0.055	6(7)	4(7)	30.5	1.20	28.9	1.14	1720	1155	785	530	140	105
1/0 (19)	1.40	0.055	6(7)	4(7)	32.5	1.28	31.0	1.22	2055	1380	905	605	155	120
2/0 (19)	1.40	0.055	6(7)	4(7)	34.9	1.38	33.0	1.30	2485	1670	1055	710	185 [#]	145
3/0 (19)	1.40	0.055	4(7)	4(7)	37.7	1.49	35.8	1.41	3090	2075	1230	825	210	165
4/0 (19)	1.40	0.055	4(7)	4(7)	40.8	1.61	38.6	1.52	3755	2520	1450	975	235	185 [#]
250 (37)	1.65	0.065	4(7)	2(7)	44.5	1.75	42.2	1.66	4375	2940	1840	1235	265	215
300 (37)	1.65	0.065	4(7)	2(7)	48.5	1.91	45.7	1.80	5315	3570	2295	1540	295	240
350 (37)	1.65	0.065	3(7)	2(7)	51.2	2.02	48.3	1.90	6120	4115	2560	1715	325	260
400 (37)	1.65	0.065	3(7)	2(7)	53.7	2.12	50.3	1.98	6870	4615	2800	1880	345	290
500 (37)	1.65	0.065	3(7)	1(18)	58.3	2.30	54.9	2.16	8370	5625	3365	2260	395	330
600 (61)	2.03	0.080	2(7)	1(18)	64.1	2.53	60.4	2.38	10045	6750	4000	2685	455	370
750 (61)	2.03	0.080	2(7)	1/0(18)	69.7	2.75	65.7	2.59	12260	8240	4790	3210	500	405
1000(61)	2.03	0.080	1(19)	--	78.0	3.07	--	--	16015	10760	--	--	585	480
Notes:														
*Copper bonding wire supplied with copper conductors. Aluminum bonding wire supplied with aluminum conductors.														
[#] Assuming 4th conductor is the neutral of a balanced 3 phase 4 wire system.														

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	mm	in	Copper	Aluminum	Copper Conductor		Aluminum Conductor		Copper Conductor		Aluminum Conductor		Copper	Aluminum
					mm	in	mm	in	kg/km	lbs/kft	kg/km	lbs/kft		
4 CONDUCTORS (PLUS BONDING WIRE)														
14 (1)	0.76	0.030	14(1)	--	13.3	0.52	--	--	203	137	--	--	15	--
12 (1)	0.76	0.030	14(1)	12(1)	14.3	0.56	14.3	0.56	260	175	150	102	20	15
10 (1)	0.76	0.030	12(1)	10(1)	15.6	0.62	15.6	0.62	355	239	190	128	30	25
8 (7)	1.14	0.045	10(1)	10(1)	18.5	0.73	18.5	0.73	525	355	270	180	45	30
6 (7)	1.14	0.045	8(7)	8(7)	23.5	0.93	22.6	0.89	875	585	450	305	65	55 [#]
4 (7)	1.14	0.045	8(7)	6(7)	26.0	1.03	25.4	1.00	1215	815	600	405	85	65
3 (7)	1.14	0.045	6(7)	6(7)	28.1	1.11	26.9	1.06	1495	1005	685	460	105	75
2 (7)	1.14	0.045	6(7)	6(7)	30.3	1.18	28.7	1.13	1785	1200	790	530	120	95 [#]
1 (19)	1.40	0.055	6(7)	4(7)	33.1	1.31	32.0	1.26	2185	1465	965	650	140	105
1/0 (19)	1.40	0.055	6(7)	4(7)	35.7	1.41	34.3	1.35	2630	1770	1125	760	155	120
2/0 (19)	1.40	0.055	6(7)	4(7)	38.4	1.51	36.6	1.44	3190	2115	1310	880	185 [#]	145
3/0 (19)	1.40	0.055	4(7)	4(7)	41.4	1.63	39.4	1.55	3970	2670	1540	1035	210	165
4/0 (19)	1.40	0.055	4(7)	4(7)	46.1	1.82	42.4	1.67	5020	3375	1985	1335	235	185 [#]
250 (37)	1.65	0.065	4(7)	2(7)	50.2	1.98	47.2	1.86	5865	3940	2515	1690	265	215
300 (37)	1.65	0.065	4(7)	2(7)	53.3	2.10	50.2	1.98	6870	4615	2870	1925	295	240
350 (37)	1.65	0.065	3(7)	2(7)	56.4	2.22	53.0	2.09	7920	5325	3220	2165	325	260
400 (37)	1.65	0.065	3(7)	2(7)	59.2	2.33	55.6	2.19	8920	5995	3540	2380	345	290
500 (37)	1.65	0.065	3(7)	1(18)	64.4	2.54	60.4	2.38	10925	7345	4290	2885	395	330
600 (61)	2.03	0.08	2(7)	1(18)	71.0	2.80	67.0	2.64	13090	8795	5085	3420	455	370
750 (61)	2.03	0.08	2(7)	1/0(18)	77.2	3.04	72.9	2.87	16030	10770	6105	4100	500	405
Notes:														
*Copper bonding wire supplied with copper conductors. Aluminum bonding wire supplied with aluminum conductors.														
[#] Assuming 4th conductor is the neutral of a balanced 3 phase 4 wire system.														