



INCORR ENGINEERING & TRADING

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CABLE DESIGN DATA

Copper conductor		Number of strands	Diameter of strands		Cross sectional area of conductor (calculated)		Single conductor weight per km run	Single conductor resistance per metre run at 20°C	Typical DC current ratings (US to 90°C UK enclosed ratings)
AWG/ MCM	Metric		Metric	mm	in ²	mm ²			
18		1	0.0403		0.00127	0.0823		21359	-
	1.0	1		1.13		1.003	9.0	18100	11
16		1	0.0508		0.00203	1.31		13452	-
	1.5	1		1.38		1.496	13.3	12100	13
14		1	0.0641		0.00323	2.08		8432	15
	2.5	1		1.78		2.49	22.2	7280	18
12		1	0.0808		0.00513	3.31		5315	20
	4.0	7		0.85		3.972	36.1	4610	24
10		1	0.1019		0.00816	5.26		3340	30
	6.0	7		1.04		5.95	54.0	3080	31
8		1	0.1285		0.013	8.37		2101	40
	10	7		1.35		10.02	90.8	1830	42
6		7	0.0612		0.0206	13.3		1345	55
	16	7		1.70		15.89	145	1150	56
4		7	0.0772		0.033	21.14		850	70
	25	7		2.14		25.18	229	727	73
3		7	0.0867		0.041	26.66		673	80
2		7	0.0974		0.052	33.65		532	95
	35	19		1.53		34.93	317	524	90
1		19	0.0664		0.066	42.45		423	110
	50	19		1.78		47.28	429	387	145
1/0		19	0.0745		0.083	53.43		335	125
2/0		19	0.0837		0.1045	67.45		266	145
	70	19		2.14		68.34	620	268	185
3/0		19	0.0940		0.132	85.07		211	165
	95	19		2.52		94.76	860	193	230
4/0		19	0.1055		0.166	107.16		167	195
	120	19		2.03		119.75	1086	153	260
250		37	0.0822		0.196	126.68		141.4	270
	150	37		2.25		147.11	1334	124.0	355
300		37	0.0900		0.235	151.86		118.1	300
350		37	0.0973		0.275	177.50		101.1	325
	185	37		2.52		184.54	1673	99.1	405
400		37	0.1040		0.314	202.78		88.6	360
	240	61		2.25		242.54	2199	75.4	480
500		37	0.1162		0.392	253.15		70.9	405
	300	61		2.52		304.2	2759	60.1	560
600		61	0.0992		0.471	304.2		59.1	455
700		61	0.1071		0.550	354.5		50.5	490
750		61	0.1109		0.589	380.1		47.2	500
	400	61		2.85		389.1	3528	47.0	680
800		61	0.1145		0.628	405.2		44.3	515
900		61	0.1215		0.709	456.3		39.4	555
	500	61		3.20		490.6	4448	36.6	800
1000		61	0.1280		0.785	506.4		35.4	585
	630	127		2.52		633.4	5744	28.3	910
1250		91	0.1172		0.982	633.4		28.3	645
1500		91	0.1284		1.178	760.2		23.6	700
	800	127		2.85		810.2	7346	22.1	-
1750		127	0.1174		1.375	886.9		20.2	735
2000		127	0.1255		1.571	1013.6		17.7	775
	1000	127		3.20		1021.4	9260	17.6	-