

HARD DRAWN COPPER CONDUCTORS TO SABS 182

Area	Equival AL Area	Stranding and Wire Diameter	Approx. Overall Diameter	Copper Area	Copper Mass	Ultimate Tensile Strength	Breaking Load	Modulus of Elasticity		DC Resistance at 20°C	Current Rating	1 Sec Short Circuit Rating
								Final	Initial			
								N/mm ²	N/mm ²			
mm ²	mm ²	mm	mm	mm ²	kg/km	newtons	kg			ohms/km	Amps	kA
16	25.40	7/1.70	5.15	15.88	145	6630	677	116400	87500	1.1328	138	2.176
25	40.20	7/2.14	6.42	25.18	225	10240	1045	116400	78000	0.7149	184	3.400
*35	54.80	7/2.50	7.50	34.36	310	12610	1287	116400	74000	0.5238	223	4.760
40	61.60	7/2.65	8.05	38.61	345	15710	1603	116400	72900	0.4662	239	5.440
*50	79.00	7/3.00	9.00	49.48	445	18165	1854	116400	71000	0.3638	279	6.800
63	98.50	7/3.35	10.15	61.70	555	24660	2516	116400	69800	0.2917	320	8.568
*70	110.60	7/3.55	10.65	69.29	620	25430	2595	116400	69300	0.2598	344	9.520
80	123.40	7/3.75	11.36	77.31	695	30530	3115	116400	69000	0.2328	368	10.880
*95	151.20	19/2.52	12.60	94.76	855	34780	3549	112200	73900	0.1909	418	12.920
100	167.20	19/2.65	13.38	104.79	945	41720	4257	112200	72900	0.1726	445	13.600
*120	191.10	37/2.03	14.21	119.75	1085	43950	4485	110700	79700	0.1514	483	16.320
160	260.50	37/2.37	16.69	163.23	1480	65270	6660	110700	75200	0.1111	585	21.760
*185	301.60	37/2.55	17.85	188.96	1710	69355	7077	110700	73600	0.0959	641	25.160
250	445.70	37/3.10	21.21	279.26	2380	103230	10534	110700	70600	0.0705	815	34.000
315	536.90	61/2.65	24.09	336.44	3050	130940	13361	110100	72900	0.0549	935	42.840
400	688.10	61/3.00	27.27	431.18	3920	166410	16981	110100	71000	0.0428	1050	54.400
*500	797.70	61/3.23	25.23	499.83	4529	183439	18718	110100	70200	0.0363	1156	68.000