

Annealed Copper Stranded Wires (Korean Standard)

APPLICATION STANDARDS

KS C 3103 Annealed copper stranded wires for electrical purposes

AS (Annealed copper stranded wires)

Size	Conductor	Reference			
	Construction	Outer Dia.(approx.)	Calculated Sectional Area (approx.)	Max. D.C Conductor Resistance (20°C)	Net Weight (approx.)
mm ²	No./mm	mm	mm	Ω/km	kg/km
0.9	7/0.4	1.2	0.8799	20.0	7.913
1.25	7/0.45	1.35	1.113	15.8	10.02
1.4	7/0.5	1.5	1.375	12.7	12.37
2.0	7/0.6	1.8	1.979	8.82	17.80
3.5	7/0.8	2.4	3.519	4.96	31.66
5.5	7/1.0	3.0	5.498	3.17	49.46
8	7/1.2	3.6	7.917	2.20	71.19
14	7/1.6	4.8	14.08	12.4	126.7
22	7/2.0	6.0	21.99	0.793	197.9
30	7/2.3	6.9	29.09	0.600	261.7
38	7/2.6	7.8	37.16	0.470	334.4
50	19/1.8	9.0	48.36	0.261	435.1
60	19/2.0	10.0	59.70	0.292	537.0
80	19/2.3	11.5	78.95	0.221	710.3
100	19/2.6	13.0	100.9	0.173	907.3
125	19/2.9	14.5	125.5	0.139	1129
150	37/2.3	16.1	153.7	0.114	1390
200	37/2.6	18.2	196.4	0.0893	1776
250	61/2.3	20.7	253.5	0.0694	2298
325	61/2.6	23.4	353.8	0.0543	2937
400	61/2.9	26.1	402.9	0.0136	3654
500	61/3.2	28.8	490.6	0.0359	4448

Annealed Copper Stranded Wires (IEC)

APPLICATION STANDARDS

IEC 60228 Conductors of insulated cables

Size	Conductor				Max. D.C Conductor Resistance (20°C)	Reference	
	Un-compacted		Compacted			Un-compacted	Compacted
	Construction	Outer Dia. (approx.)	No. of Wires	Outer Dia. (approx.)		Net Weight (approx.)	
mm ²	No./mm	mm	EA	mm	Ω/km	kg/km	kg/km
1.5	7/0.53	1.59	-	-	12.1	14	-
2.5	7/0.67	2.01	-	-	7.41	22	-
4	7/0.85	2.55	-	-	4.61	35	-
6	7/1.04	3.12	-	-	3.08	53	-
10	7/1.35	4.05	-	-	1.83	90	-
16	7/1.70	5.10	7	4.7	1.15	140	138
25	7/2.14	6.42	7	5.9	0.727	225	218
35	7/2.52	7.56	7	6.9	0.524	310	302
50	19/1.78	8.90	7	8.1	0.387	420	409
70	19/2.14	10.70	19	9.8	0.268	610	593
95	19/2.52	12.60	19	11.4	0.193	850	823
120	37/2.03	14.21	19	12.9	0.153	1070	1038
150	37/2.25	15.75	19	14.4	0.124	1300	1287
185	37/2.52	17.64	19	15.9	0.0991	1650	1610
240	61/2.25	20.25	19	18.3	0.0754	2200	2115
300	61/2.52	22.68	61	20.5	0.0601	2700	2667
400	61/2.85	25.65	61	23.2	0.0470	3500	3410
500	61/3.20	28.60	61	26.4	0.0366	4400	4379