Hard-Drawn Copper Stranded Wire
(Korean Standard)

APPLICATION STANDARDS
KS C 3104 Hard-drawn copper stranded conductors

H (Hard-drawn copper stranded wires)

Size	Conductor	Min. of tensile force	Reference			
	Construction		Outer Dia.(approx.)	Calculated Sectional Area (approx.)	Max. D.C Conductor Resistance (20°C)	Net Weight (approx.)
mm^2	No./mm	kgf (N)	mm	mm	Ω/km	kg/km
1.4	7/0.5	58 (362.85)	1.5	1.375	13.2	12.37
2.0	7/0.6	83 (813.79)	1.8	1.979	9.18	17.80
3.5	7/0.8	146 (1431.8)	2.4	3.519	5.17	31.66
5.5	7/1.0	227 (2226.1)	3.0	5.498	3.31	49.46
8	7/1.2	326 (3197.0)	3.6	7.917	2.30	71.19
14	7/1.6	574 (5629.0)	4.8	14.08	1.29	126.7
22	7/2.0	888 (8708.3)	6.0	21.99	0.818	197.9
30	7/2.3	1170 (11474)	6.9	29.09	0.618	261.7
38	7/2.6	1480 (14514)	7.8	37.16	0.484	334.4
50	19/1.8	1970 (19319)	9.0	48.36	0.376	435.1
60	19/2.0	2410 (23634)	10.0	59.70	0.301	537.0
80	19/2.3	3160 (30989)	11.5	78.95	0.228	710.3
100	19/2.6	4020 (39423)	13.0	100.9	0.178	907.6
125	19/2.9	4960 (48641)	14.5	125.5	0.143	1129
150	37/2.3	6160 (60409)	16.1	153.7	0.118	1390
200	37/2.6	7830 (76786)	18.2	196.4	0.0920	1776
250	61/2.3	10200 (100030)	20.7	253.5	0.0715	2298
325	61/2.6	12900 (126510)	23.4	323.8	0.0560	2937
400	61/2.9	15900 (155930)	26.1	402.9	0.0450	3654
500	61/3.2	19300 (189270)	28.8	490.6	0.0370	4448

PH (Hard-drawn copper stranded wires) for Overhead Transmission Purpose)

Size	Conductor	Min. of tensile force	Reference			
	Construction		Outer Dia.(approx.)	Calculated Sectional Area (approx.)	Max. D.C Conductor Resistance (20°C)	Net Weight (approx.)
mm^2	No./mm	kgf (N)	mm	mm	Ω/km	kg/km
22	7/2.0	888 (8708.3)	6.0	21.99	0.818	197.9
30	7/2.3	1170 (11474)	6.9	29.09	0.618	261.7
38	7/2.6	1480 (14514)	7.8	37.16	0.484	334.4
45	7/2.9	1830 (17946)	8.7	46.24	0.389	416.0
55	7/3.2	2210 (21673)	9.6	56.29	0.320	506.4
75	7/3.7	2910 (28537)	11.1	75.25	0.239	677.0
100	7/4.3	3880 (38050)	12.9	101.6	0.177	914.5
125	19/2.9	4960 (48641)	14.5	125.5	0.143	1129
150	19/3.2	6000 (58840)	16.0	152.8	0.118	1375
180	19/3.5	7130 (69921)	17.5	182.8	0.0984	1645
200	19/3.7	7900 (77473)	18.5	204.3	0.0880	1838
240	19/4.0	9180 (90025)	20.0	238.8	0.0753	2148