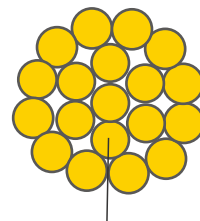


Stranded Bare Hard-Drawn Copper Wire

■ **Standard(s)** CNS 668

■ **Application** Conductors for manufacturing electrical cables(wires) and telecommunications, electrical machinery and various types of wiring, electrical leads for building wires.

■ **Characteristics** Produced with electrolytic copper. The product offers excellent electrical conductivity and tensile strength, good durability and corrosion resistance, and is suitable as a conductor for electrical (wire) cables.



Conductor

Construction and properties table

Cross-sectional area		Number of strands/ strand diameter	External diameter (approx.)	Reference values			
Nominal value	Calculated value			Calculated weight per kilometer	Maximum conductor resistance (20°C)		Length of each roll
					Hard-drawn copper for general use	Soft-drawn copper	
mm ²	mm ²	strand/mm	mm	kg	Ω/km		m
0.9	0.8799	7/0.4	1.2	7.913	20.7	20.41	500
1.25	1.113	7/0.45	1.35	10.02	----	16.16	
1.4	1.375	7/0.5	1.5	12.37	13.2	12.95	
2.0	1.979	7/0.6	1.8	17.80	9.18	9.00	
3.5	3.519	7/0.8	2.4	31.66	5.17	5.06	
5.5	5.498	7/1.0	3.0	49.46	3.31	3.24	
8	7.917	7/1.2	3.6	71.19	2.30	2.25	
14	14.08	7/1.6	4.8	126.7	1.29	1.26	300
22	21.99	7/2.0	6.0	197.9	0.818	0.801	
30	29.09	7/2.3	6.9	261.7	0.618	0.606	
38	37.16	7/2.6	7.8	334.4	0.484	0.474	
50	48.36	19/1.8	9.0	435.1	0.376	0.368	1000
60	59.70	19/2.0	10.0	537.0	0.301	0.295	
80	78.95	19/2.3	11.5	710.3	0.228	0.223	
100	100.9	19/2.6	13.0	907.6	0.178	0.175	600
125	125.5	19/2.9	14.5	1,129	0.143	0.140	
150	153.7	37/2.3	16.1	1,390	0.118	0.115	
200	196.4	37/2.6	18.2	1,776	0.0920	0.0902	500
250	253.5	61/2.3	20.7	2,298	0.0715	0.0701	300
325	323.8	61/2.6	23.4	2,937	0.0560	0.0548	
400	402.9	61/2.9	26.1	3,654	0.0450	0.0448	
500	490.6	61/3.2	28.8	4,448	0.0370	0.0362	
600	601.1	91/2.9	31.9	5,466	0.0303	0.0296	
725	731.8	91/3.2	35.2	6,655	0.0248	0.0243	
850	838.8	127/2.9	37.7	7,651	0.0217	0.0213	
1000	1,021	127/3.2	41.6	9,315	0.0179	0.0175	



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