

STRANDED CABLE - OVERHEAD GROUND WIRE

PHYSICAL AND ELECTRICAL *characteristics*

CONDUCTOR SIZE AWG	DIAMETER		BREAKING LOAD		WEIGHT		RESISTANCE ①		CROSS SECTION	
	Inches	mm	lbs.	kN	lbs./kft	kg/km	Ohm/kft	Ohm/km	Sq. Inches	mm ²
3-wire Strand										
3 No.5	0.392	9.96	12,230	54.4	224.5	334.1	0.5177	1.699	0.07800	50.32
3 No.6	0.349	8.86	10,280	45.7	178.1	265.0	0.6528	2.142	0.06185	39.90
3 No.7	0.311	7.90	8,621	38.4	141.2	210.7	0.8232	2.101	0.04905	31.64
3 No.8	0.277	7.04	7,206	32.1	112.0	166.7	1.038	3.406	0.03890	25.10
3 No.9	0.247	6.27	5,715	25.4	88.81	132.2	1.309	4.295	0.03085	19.90
3 No.10	0.220	5.59	4,532	20.2	70.43	104.8	1.651	5.417	0.02446	15.78
7-wire Strand										
7 No.5	0.546	13.87	27,030	120.2	524.9	781.1	0.2264	0.7428	0.1820	117.4
7 No.6	0.486	12.34	22,730	101.1	416.3	619.5	0.2803	0.9197	0.1443	93.09
7 No.7	0.433	11.00	19,060	84.8	330.0	491.1	0.3535	1.160	0.1145	73.87
7 No.8	0.385	9.78	15,930	70.9	261.8	389.6	0.4458	1.463	0.09077	58.56
7 No.9	0.343	8.71	12,630	56.2	207.6	308.9	0.5621	1.844	0.07198	46.44
7 No.10	0.306	7.77	10,020	44.6	164.7	245.1	0.7088	2.326	0.05708	36.82
7 No.11	0.272	6.91	7,945	35.3	130.6	194.4	0.8938	2.933	0.04523	29.18
7 No.12	0.242	6.15	6,301	28.0	103.6	154.2	1.1270	3.698	0.03590	23.16
19-wire Strand										
19 No.5	0.910	23.11	73,350	120.2	1,430	2,128	0.08224	0.2699	0.4940	318.7
19 No.6	0.810	20.57	61,700	101.1	1,134	1,688	0.1037	0.3403	0.3917	252.7
19 No.7	0.721	18.31	51,730	84.8	899.5	1,339	0.1308	0.4292	0.3107	200.4
19 No.8	0.642	16.31	43,240	70.9	713.5	1,062	0.1649	0.5411	0.2464	158.0
19 No.9	0.572	14.53	34,290	56.2	565.8	842.0	0.2079	0.6821	0.1954	126.1
19 No.10	0.509	12.93	27,190	44.6	448.7	667.8	0.2622	0.8603	0.1549	99.93

① DC resistance at 20°C

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