

Assembly of the solid and stranded AWG conductors

Remark

Mainly available are the conductor make-ups marked with *.
 The conductor resistance is an approximate value and serves as a guide.
 AWG = American Wire Gauge

AWG No.	conductor make-up		cross section mm ²	diameter mm	cond. resistance Ω / km	cond. weight kg/km
	n x AWG	n x wire-Ø mm				
36	solid	solid	0.013	0.127	1460.00	0.116
	7/44*	7 x 0.05	0.014	0.152	1271.00	0.125
34	solid	solid	0.020	0.160	918.00	0.178
	7/42*	7 x 0.064	0.022	0.192	777.00	0.196
32	solid	solid	0.032	0.203	571.00	0.284
	7/40*	7 x 0.078	0.034	0.203	538.00	0.302
	19/44	19 x 0.05	0.037	0.229	448.00	0.329
30	solid	solid	0.051	0.254	365.00	0.450
	7/38*	7 x 0.102	0.057	0.305	339.00	0.507
	19/42	19 x 0.05	0.061	0.305	286.70	0.543
28	solid	solid	0.080	0.330	232.00	0.710
	7/36*	7 x 0.127	0.087	0.381	213.00	0.774
	19/40	19 x 0.078	0.091	0.406	186.00	0.810
27	7/35	7 x 0.142	0.111	0.457	179.00	0.988
26	solid	solid	0.128	0.409	143.00	1.140
	7/34*	7 x 0.160	0.141	0.483	122.00	1.250
	10/36	10 x 0.127	0.127	0.533	137.00	1.130
	19/38	19 x 0.102	0.155	0.508	113.00	1.380
24	solid	solid	0.205	0.511	89.40	1.820
	7/32*	7 x 0.203	0.227	0.610	76.40	2.020
	10/34	10 x 0.160	0.201	0.582	85.60	1.790
	19/36	19 x 0.127	0.241	0.610	69.20	2.140
	41/40	41 x 0.078	0.196	0.582	84.00	1.740
22	solid	solid	0.324	0.643	55.30	2.880
	7/30	7 x 0.254	0.355	0.762	48.40	3.160
	11/32*	11 x 0.203	0.346	0.770	47.10	3.320
	19/34	19 x 0.160	0.382	0.787	45.10	3.400
	26/36	26 x 0.127	0.330	0.762	52.30	2.940
20	solid	solid	0.519	0.813	34.60	4.610
	7/28	7 x 0.320	0.562	0.965	33.80	5.000
	10/30	10 x 0.254	0.507	0.889	33.90	4.510
	19/32*	19 x 0.203	0.615	0.940	28.30	5.470
	26/34	26 x 0.160	0.523	0.914	33.00	4.650
	41/36	41 x 0.127	0.520	0.914	32.90	4.630
18	solid	solid	0.823	1.020	21.80	7.320
	7/26	7 x 0.404	0.897	1.219	19.20	7.980
	16/30	16 x 0.254	0.811	1.194	21.30	7.220
	19/30	19 x 0.254	0.963	1.245	17.90	8.570
	27/32*	27 x 0.203	0.848	1.194	18.80	8.140
	41/34	41 x 0.160	0.824	1.194	20.90	7.330
	65/36	65 x 0.127	0.823	1.194	21.00	7.320
	16	solid	solid	1.310	1.290	13.70
16	7/24	7 x 0.511	1.440	1.524	12.00	12.810
	19/29	19 x 0.287	1.229	1.473	14.00	10.940
	27/30*	27 x 0.250	1.325	1.500	13.20	11.272
	65/34	65 x 0.160	1.310	1.499	13.20	11.650
	105/36	105 x 0.160	2.111	1.854	8.20	18.790

AWG No.	conductor make-up		cross section	diameter	cond. resistance	cond. weight
	n x AWG	n x wire-Ø mm	mm ²	mm	Ω / km	kg/km
14	solid	solid	2.080	1.630	8.60	18.510
	7/22	7 x 0.643	2.238	1.854	7.60	19.920
	19/27	19 x 0.361	1.945	1.854	8.90	17.310
	43/30*	43 x 0.250	2.110	1.855	8.25	20.265
	105/34	105 x 0.160	2.111	1.854	8.20	18.790
12	solid	solid	3.310	2.050	5.40	29.460
	7/20	7 x 0.813	3.630	2.438	4.80	32.300
	19/25	19 x 0.455	3.090	2.369	5.60	27.500
	68/30*	68 x 0.250	3.338	2.415	5.75	32.045
	165/34	165 x 0.160	3.316	2.413	5.20	29.510
10	solid	solid	5.260	2.590	3.40	46.810
	37/26	37 x 0.404	4.740	2.921	3.60	42.180
	49/27	49 x 0.363	5.068	2.946	3.60	45.100
	106/30*	106 x 0.250	5.203	2.946	3.20	49.950
8	49/25	49 x 0.455	7.963	3.734	2.20	70.870
	133/29	133 x 0.287	8.604	3.734	2.00	76.570
	172/30*	172 x 0.250	8.443	3.915	2.10	81.055
	655/36	655 x 0.127	8.297	3.734	2.00	73.840
6	105/25*	105 x 0.400	13.195	4.675	1.30	126.660
	133/27	133 x 0.363	13.764	4.676	1.50	122.490
	259/30	259 x 0.254	13.123	4.674	1.30	116.790
	1050/36	1050 x 0.127	13.316	4.674	1.30	118.510
4	133/25	133 x 0.455	21.625	5.898	0.80	192.460
	168/25*	168 x 0.400	21.110	5.895	0.78	202.670
	259/27	259 x 0.363	26.804	5.898	0.66	238.550
	1666/36	1666 x 0.127	21.104	5.898	0.82	187.820
2	133/23	133 x 0.574	34.416	7.417	0.50	306.300
	285/25*	285 x 0.400	35.815	7.417	0.48	343.815
	665/30	665 x 0.254	33.696	7.417	0.52	299.890
	2646/36	2646 x 0.127	33.518	7.417	0.52	298.310
1	133/22	133 x 0.643	43.187	8.331	0.40	384.370
	342/25*	342 x 0.400	42.977	8.331	0.41	412.578
	817/30	817 x 0.254	41.397	8.331	0.42	368.430
	2109/34	2109 x 0.160	42.403	8.331	0.41	377.390
1/0	133/21	133 x 0.724	54.750	9.347	0.31	487.280
	259/24	259 x 0.511	53.116	9.347	0.32	472.730
	420/25*	420 x 0.400	52.778	9.347	0.33	506.680
2/0	133/20	133 x 0.813	69.043	10.516	0.25	614.480
	259/23	259 x 0.574	67.021	10.516	0.25	596.490
	555/25*	555 x 0.400	69.744	10.516	0.24	669.535
3/0	259/22	259 x 0.643	84.102	11.786	0.20	748.510
	427/24	427 x 0.511	87.570	11.786	0.19	779.370
	675/25*	675 x 0.400	84.822	11.786	0.20	814.300
4/0	259/21	259 x 0.724	106.626	13.259	0.16	948.970
	427/23	427 x 0.574	110.494	13.259	0.15	983.390
	851/25*	851 x 0.400	106.940	13.259	0.16	1026.62
250 MCM	37/.0822*	37 x 2.09	126.950	14.600	0.14	1218.58
300 MCM	37/.090*	37 x 2.29	152.390	16.000	0.12	1462.96
350 MCM	37/.0973*	37 x 2.47	177.290	17.300	0.10	1701.98
400 MCM	37/.104*	37 x 2.64	202.534	18.500	0.09	1944.33
500 MCM	37/.1162*	37 x 2.95	252.892	20.700	0.07	2427.76
600 MCM	61/.0992*	61 x 2.52	304.242	22.700	0.059	2920.73
750 MCM	61/.1109*	61 x 2.82	380.993	25.400	0.047	3657.53
1000 MCM	61/.1280*	61 x 3.25	506.040	29.300	0.035	4857.99