

AS/AC (AWAC) Wire

Product Description

Concentric-lay stranded conductors made from round 1350-H19 Aluminum wires and round Aluminum-clad Steel core wires.

Application

AS/AC (AWAC) conductors are used as phase conductors to increase span length or clearances, neutral messengers for spacer cables, ground or shield wires, and as self-supporting cables.

Specifications

ASTM B502 – Round, single end, Aluminum-clad Steel core wire used in the manufacture of AS/AC (AWAC) and ACSR/AS (AW) cables. Two tensile strengths available, AW2 (Normal Strength) and AW3 (High Strength); ASTM B230 – This specification covers aluminum 1350-H19 (extra hard) round wire for electrical purposes; ASTM B549 – This specification covers concentric-lay-stranded conductors made from round aluminum 1350-H19 (extra hard) aluminum wires and round aluminum-clad steel core wires for use as overhead electrical conductors.



Conductor	Diameter of Conductor (inches)	Design of Conductor Aluminum Wires No.- Dia.	Design of Conductor AS Wires No.- Dia.	Minimum Breaking Strength (lbs.)	Weight lbs./1,000 ft.	Weight lbs./Mile	Cross Section Square inches
No. 4 Awg Aluminum Equivalent							
No. 4-6/1	.245	6- .0187	1- .0817	1,783	52.40	276.70	.0367
No. 4-5/2	.261	5- .0871	2- .0817	2,830	69.70	368.00	.0417
No. 4-4/3	.281	4- .0937	3- .0937	4,305	92.40	487.90	.0438
No. 4-3/4	.307	3- .1022	4- .1022	6,325	123.70	652.10	.0574
No. 4-2/5	.340	2- .1133	5- .1133	9,314	169.40	894.40	.0706
No. 3 Awg Aluminum Equivalent							
No. 3-6/1	.275	6- .0918	1- .0918	2,228	66.10	349.00	.0463
No. 3-5/2	.293	5- .0978	2- .0978	3,551	87.80	463.70	.0526
No. 3-4/3	.316	4- .1053	3- .1053	5,397	116.50	615.10	.0609
No. 3-3/4	.344	3- .1147	4- .1147	7,966	155.90	823.20	.0723
No. 3-2/5	.382	2- .1273	5- .1273	11,730	213.50	1,127.00	.0890
No. 2 Awg Aluminum Equivalent							
No. 2-6/1	.309	6- .1030	1- .1030	2,760	83.30	439.80	.0584
No. 2-5/2	.330	5- .1099	2- .1099	4,336	110.80	585.00	.0663
No. 2-4/3	.355	4- .1182	3- .1182	6,785	146.90	775.60	.0768
No. 2-3/4	.386	3- .1288	4- .1288	9,793	196.60	1,038.00	.0912
No. 2-2/5	.429	2- .1429	5- .1429	14,060	269.30	1,422.00	.1123
No. 1 Awg Aluminum Equivalent							
No. 1-6/1	.347	6- .1157	1- .1157	3,450	105.10	554.90	.0736
No. 1-5/2	.370	5- .1234	2- .1234	5,539	139.70	737.60	.0837
No. 1-4/3	.398	4- .1327	3- .1327	8,344	185.30	978.40	.0969
No. 1-3/4	.434	3- .1446	4- .1446	11,740	247.90	1,309.00	.1150
No. 1-2/5	.482	2- .1605	5- .1605	16,800	339.60	1,793.00	.1416
No. 1/0 Awg Aluminum Equivalent							
No. 1/0-6/1	.390	6- .1300	1- .1300	4,246	132.60	700.10	.0929
No. 1/0-5/2	.416	5- .1385	2- .1385	6,712	176.10	929.80	.1055
No. 1/0-4/3	.447	4- .1490	3- .1490	10,020	233.50	1,233.00	.1221
No. 1/0-3/4	.487	3- .1624	4- .1624	14,000	312.60	1,651.00	.1450
No. 1/0-2/5	.541	2- .1802	5- .1802	20,030	428.00	2,260.00	.1785
No. 2/0 Awg Aluminum Equivalent							
No. 2/0-6/1	.438	6- .1459	1- .1459	5,135	167.10	882.30	.1171
No. 2/0-5/2	.467	5- .1556	2- .1556	8,040	221.10	1,173.00	.1330
No. 2/0-4/3	.502	4- .1674	3- .1674	12,000	294.60	1,555.00	.1541
No. 2/0-3/4	.547	3- .1824	4- .1824	16,750	394.30	2,082.00	.1829
No. 3/0 Awg Aluminum Equivalent							
No. 3/0-6/1	.492	6- .1639	1- .1639	6,305	210.70	1,112.00	.1476
No. 3/0-5/2	.524	5- .1747	2- .1747	9,705	280.60	1,482.00	.1677
No. 3/0-4/3	.564	4- .1880	3- .1880	14,380	371.40	1,961.00	.1942
No. 4/0 Awg Aluminum Equivalent							
No. 4/0-6/1	.552	6- .1840	1- .1840	7,685	265.70	1,403.00	.1861
No. 4/0-15/4	.575	15- .1150	4- .1150	10,870	305.40	1,613.00	.1974

Specifications: ASTM B549, ASTM B230, and ASTM B502

All weights, measurements, and values are nominal.
 All ASTM specifications are per the latest addition.
 Made in U.S.A.