

PHYSICAL AND ELECTRICAL Characteristics

MATERIAL DESIGNATION	CONSTRUCTION	Each AW and AL diameter		Total cable diameter inches	Weight #/Mft	Break load (lbs)	DC RESISTANCE @ 20 ^o Ohm/Mft
	AW = Aluminum Clad Steel AL = Aluminum	Inches	mm	Nominal			

AWA

234 AWA	3 AW / 4 AL-.1144	.1144	2.91	.343	138	6,355	.2624
252 AWA	5 AW / 2 AL-.1285	.1285	3.26	.385	218	11,960	.2836
052 AWA	5 AW / 2 AL-.1620	.1620	4.11	.486	346	17,120	.1785
0052 AWA	5 AW / 2 AL-.1819	.1819	4.62	.546	436	20,420	.1415

AWAC

# 4 – 5/2 AWAC	2 AW / 5 AL-.0871	.0871	2.21	.261	69.7	2,790	.4026
# 4 – 4/3 AWAC	3AW / 4 AL-.0937	.0937	2.38	.281	92.4	4,190	.3935
# 4 – 3/4 AWAC	4 AW / 3 AL-.1022	.1022	2.60	.307	123.7	6,130	.3809
# 4 – 2/5 AWAC	5 AW / 2 AL-.1133	.1133	2.88	.340	169.4	8,960	.3656
# 3 – 5/2 AWAC	2 AW / 5 AL-.0978	.0978	2.48	.293	87.8	3,500	.3193
# 3 – 4/3 AWAC	3 AW / 4 AL-.1053	.1053	2.67	.316	116.5	5,260	.3116
# 3 – 3/4 AWAC	4 AW / 3 AL-.1147	.1147	2.91	.344	155.9	7,700	.3024
# 3 – 2/5 AWAC	5 AW / 2 AL-.1273	.1273	3.23	.382	213.5	11,300	.2896
# 2 – 5/2 AWAC	2 AW / 5 AL-.1099	.1099	2.79	.330	110.8	4,370	.2529
# 2 – 4/3 AWAC	3 AW / 4 AL-.1182	.1182	3.00	.355	146.9	6,600	.2473
# 2 – 3/4 AWAC	4 AW / 3 AL-.1288	.1288	3.27	.386	196.6	9,690	.2398
# 2 – 2/5 AWAC	5 AW / 2 AL-.1429	.1429	3.63	.429	269.3	13,500	.2298
# 1 – 5/2 AWAC	2 AW / 5 AL-.1234	.1234	3.13	.370	139.7	5,450	.2006
# 1 – 4/3 AWAC	3 AW / 4 AL-.1327	.1327	3.37	.398	185.3	8,100	.1962
# 1 – 3/4 AWAC	4 AW / 3 AL-.1446	.1446	3.67	.434	247.9	11,200	.1903
# 1 – 2/5 AWAC	5 AW / 2 AL-.1605	.1605	4.08	.482	339.6	16,500	.1822
# 1 / 0-5/2 AWAC	2 AW / 5 AL-.1385	.1385	3.52	.416	176.1	6,580	.1592
# 1 / 0-4/3 AWAC	3 AW / 4 AL-.1490	.1490	3.78	.447	233.5	9,680	.1556
# 1 / 0-3/4 AWAC	4 AW / 3 AL-.1624	.1624	4.12	.487	312.6	13,800	.1509
# 1 / 0-2/5 AWAC	5 AW / 2 AL-.1802	.1802	4.58	.541	428.0	19,500	.1445
# 2 / 0-5/2 AWAC	2 AW / 5 AL-.1556	.1556	3.95	.467	222.1	8,030	.1262
# 2 / 0-4/3 AWAC	3 AW / 4 AL-.1674	.1674	4.25	.502	294.6	11,900	.1233
# 2 / 0-3/4 AWAC	4 AW / 3 AL-.1824	.1824	4.63	.547	394.3	16,400	.1196
# 3 / 0-5/2 AWAC	2 AW / 5 AL-.1747	.1747	4.44	.524	280.6	9,660	.1001
# 3 / 0-4/3 AWAC	3 AW / 4 AL-.1880	.1880	4.78	.564	371.4	14,200	.09775

INTRAL INC. 135 Carignan Boul. West, Princeville (Quebec) Canada G6L 4M3

Phone: (819) 364-7551 • Fax: (819) 364-7425 E-mail Sales administration: info@intralqc.com www.intralqc.com

Intral Inc. hold a **ISO 9001:2008** certificate



Neutral messenger AWA and AWAC Conductor

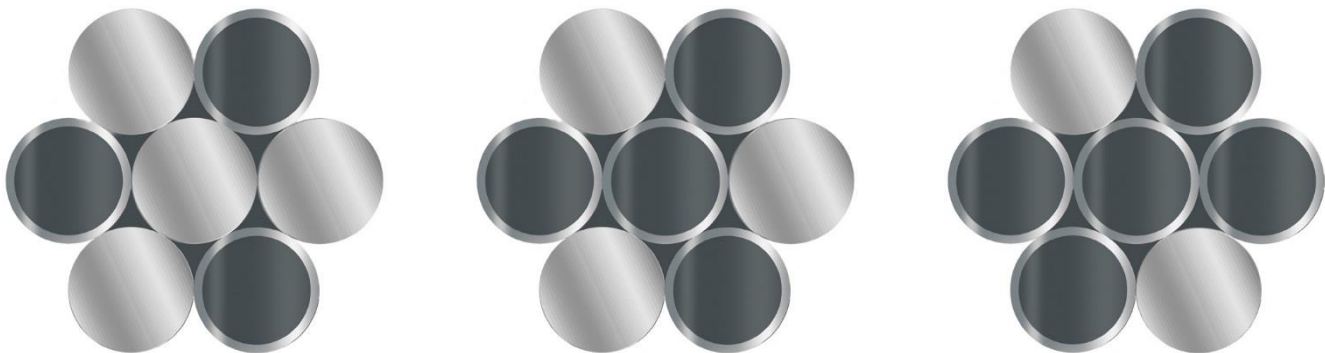
APPLICATIONS

Intral's AWA and AWAC conductors combine high conductivity, light weight and superior corrosion resistance, and can be used even in the most aggressive environments. The risk of galvanic corrosion is eliminated by the thick layer of aluminum extruded over the core of each aluminum-clad steel (ACS) strand. AWAC conductors are usually right-hand lay while the AWA type is left-hand lay.

Intral's AWAC conductors are often specified where strength and conductivity are important factors in distribution line design. Since each strand is chemically compatible with neighboring strands and because of the strong corrosion resistance properties of aluminum, ACS strands can be placed either on the inside or in the outer layers of reinforced aluminum conductors. This type of cable offers the highest strength of any aluminum-type conductor, resulting in significant cost savings through longer spans.

AWAC-type cables can also serve as neutral messengers for spacer of lashed cable configurations.

In applications where strength is of prime importance, Intral also offers all-ACS (Aluminum clad steel) cable in 3 and 7 strand configurations. Electrical conductivity for this type of cable varies between 20.3 up to 30% I.A.C.S. according to desired configuration of ACS wire and AL wire. (depending on the thickness of the aluminum layer specified).



Picture above shows a few configurations. Other configurations available on request.

COMMON SPECIFICATIONS

- ASTM B-230 Aluminum 1350-H18 Wire for Electrical Purposes
 - ASTM B-502 Aluminum-Clad Steel Core Wire for Aluminum Conductors
 - ASTM B-549 Concentric-Lay-Stranded Aluminum Conductors
 - ASTM B-416 Concentric-Lay-Stranded Aluminum-Clad Steel Conductors
-