



FORMED WIRE SOLUTIONS

Armor Rods, Line Guards, Guy Dead Ends

Product Catalog

Founded in 1984, AFL is a global manufacturer providing end-to-end solutions to the energy, broadband, data center, AI and industrial markets.

With products in over 130 countries, AFL specializes in fiber optic cable and hardware, transmission/compression and substation accessories, connectivity solutions, fusion splicers, and test and inspection equipment.

Guided by Customer-Focused and Community-Centered values and a strong commitment to safety, the company operates manufacturing facilities worldwide and provides a comprehensive portfolio of services and solutions supporting network infrastructure, data centers, service providers, wireless and power grid modernization.

For more information, visit www.aflglobal.com.



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Table of Contents

Armor Rods3
Line Guards7
Guy Dead End11

Reference Material

Comparative Catalog Number Cross Reference13

Installation Instructions

Armor Rods and Line Guards14
Strength Restoration Charts16

Armor Rods

Armor rods are designed to protect the conductor by reducing bending, compression, and abrasion at the support point. Protection against flashover damage is also provided. Armor rods are recommended as protection for spans greater than 300 ft. (91 m). Manufactured from either aluminum alloy, Alumoweld®, or galvanized steel, they are designed for use with ACSR, AAC, AAAC, ACSS, SSAC, TW Types and ACAR conductors as well as Alumoweld® and steel ground wire. All rod sets are manufactured with right-hand lay as standard for aluminum-based material and left hand lay for Alumoweld and steel ground wire.



Features

Color Coded and Center Marked

For ease of identification to conductor size, the armor rods are color coded in the center of the rod. This feature also assists in alignment of the rods during installation.

Repair Damage

When no more than 50% of the outside strands on an ACSR or aluminum conductor have been damaged outside the support point, armor rods may be used to restore 100% of the rated conductance and strength of the line.

Vibration Protection

Installing armor rods improves the conductor's ability to withstand the fatigue forces associated with aeolian type vibration. They do not function as vibration control devices. For assistance in determining the proper vibration protection, contact the AFL Technical Support Team or visit our website at www.Vibrec.com.

Tap Over

Armor rods may be tapped over on ACSR and aluminum conductor, but not on Alumoweld, or steel ground wire. Where tapping is used, it is strongly recommended that the conductor is thoroughly wire brushed and an oxide inhibitor be applied.

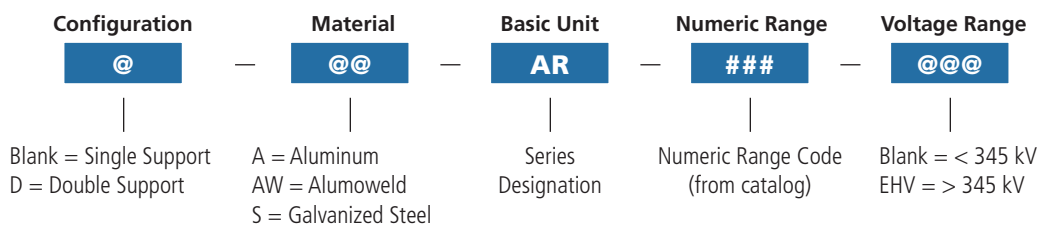
Extra High Voltage Applications

For 345 kV and above, the armor rod ends are modified to eliminate Corona effects and include a suffix of 'EHV' at the end of the AFL part number.

Customized Armor Rods

For armor rods with special requirements, such as longer lengths or non-standard lay direction contact the AFL Technical Support Team at 1-800-866-7385.

Ordering Information



Example: For single 795 26/7, Aluminum conductor diameter of 1.099 to 1.139 inches and Extra High Voltage, the complete catalog number is: **AAR279EHV**

continued
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Ordering Information - Armor Rods

AFL No.	Conductor Diameter Range		Nominal Cable Size	Rod Dia. (inches)	Quantity in Set	Color Code	Rod Length (inches)	Packaging per box	
	Min. (inches)	Max. (inches)						Units	Weight (lbs)
Aluminum (right hand lay)									
AAR062	0.244	0.259	#4, 6/1, 7/1	0.146	7	Orange	40 (S) 52 (D)	50	25 (S) 32 (D)
AAR066	0.260	0.273	#3, 7W All Aluminum	0.146	7	Green	42 (S) 54 (D)	50	26 (S) 34 (D)
AAR069	0.274	0.289	#3, 7W Aluminum Alloy	0.146	8	Yellow	42 (S) 54 (D)	50	30 (S) 38 (D)
AAR073	0.290	0.308	#2, 7W All Aluminum	0.146	8	Purple	42 (S) 54 (D)	50	30 (S) 38 (D)
AAR078	0.309	0.326	#2, 6/1, 7/1	0.136	9	Red	44 (S) 56 (D)	50	32 (S) 40 (D)
AAR083	0.327	0.346	#1, 7W All Aluminum	0.146	9	Blue	46 (S) 58 (D)	50	38 (S) 46 (D)
AAR088	0.347	0.366	#1, 6/1	0.146	9	Green	48 (S) 60 (D)	50	40 (S) 49 (D)
AAR093	0.367	0.389	1/0, 7W All Aluminum	0.146	10	Black	50 (S) 62 (D)	50	45 (S) 55 (D)
AAR099	0.390	0.413	1/0, 6/1	0.167	9	Yellow	52 (S) 64 (D)	50	55 (S) 67 (D)
AAR105	0.414	0.436	3/0, 7W Comp.	0.146	10	Brown	52 (S) 64 (D)	50	48 (S) 58 (D)
AAR111	0.437	0.463	2/0, 6/1	0.167	10	Blue	54 (S) 66 (D)	50	64 (S) 76 (D)
AAR118	0.464	0.490	3/0, 7W-19W All Aluminum	0.167	10	Green	54 (S) 66 (D)	50	64 (S) 76 (D)
AAR124	0.491	0.521	3/0, 6/1	0.167	11	Orange	56 (S) 68 (D)	25	37 (S) 46 (D)
AAR132	0.522	0.551	4/0, 7W-19W All Aluminum	0.167	11	Black	58 (S) 70 (D)	25	38 (S) 46 (D)
AAR140	0.552	0.585	4/0, 6/1	0.182	11	Red	60 (S) 72 (D)	25	46 (S) 55 (D)
AAR149	0.586	0.606	266.8, 19W	0.182	12	Black	62 (S) 74 (D)	25	52 (S) 61 (D)
AAR154	0.607	0.630	266.8, 18/1	0.182	12	Purple	64 (S) 76 (D)	25	54 (S) 63 (D)
AAR160	0.631	0.655	266.8, 26/7	0.182	12	Yellow	64 (S) 76 (D)	25	54 (S) 63 (D)
AAR166	0.656	0.679	336.4, 19W	0.182	13	Brown	66 (S) 78 (D)	18	43 (S) 51 (D)
AAR172	0.680	0.703	300, 26/7	0.204	12	Blue	68 (S) 80 (D)	18	52 (S) 60 (D)
AAR179	0.704	0.740	336.4, 26/7	0.204	12	Green	72 (S) 84 (D)	18	54 (S) 64 (D)
AAR188	0.741	0.782	397.5 18/1	0.204	13	Orange	72	18	50
AAR199	0.783	0.814	397.5 26/7	0.250	11	Purple	76	15	66
AAR207	0.815	0.845	636 19W	0.250	11	Red	76	15	66
AAR215	0.846	0.907	477 26/7	0.250	12	Blue	78	15	74
AAR230	0.908	0.929	636 37W	0.250	13	Green	80	12	55
AAR236	0.930	0.976	605 26/7	0.250	13	White	88	12	60
AAR248	0.977	1.016	636 26/7	0.310	11	Yellow	92	6	55
AAR258	1.017	1.035	795 37W-61W	0.310	12	Brown	94	6	45
AAR263	1.036	1.064	715.5 26/7	0.310	12	Blue	96	6	46
AAR270	1.065	1.098	795 24/7	0.310	12	Green	96	6	46
AAR279	1.099	1.139	795 26/7	0.310	12	Orange	100	6	51
AAR289	1.140	1.161	954 36/1	0.310	13	Purple	100	6	52
AAR295	1.162	1.208	1003.5 37W-61W	0.310	13	Red	100	6	57
AAR307	1.209	1.269	1113 45/7	0.365	12	Black	100	6	67

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Ordering Information - Armor Rods (cont.)

AFL No.	Conductor Diameter Range		Nominal Cable Size	Rod Dia. (inches)	Quantity in Set	Color Code	Rod Length (inches)	Packaging per box	
	Min. (inches)	Max. (inches)						Units	Weight (lbs)
Aluminum (right hand Lay)									
AAR322	1.270	1.327	1192.5 45/7	0.365	12	White	100	6	67
AAR337	1.328	1.390	1272 45/7	0.365	13	Yellow	100	3	45
AAR353	1.391	1.440	1431 45/7	0.436	11	Brown	100	3	54
AAR366	1.441	1.508	1590 45/7	0.436	12	Blue	100	3	58
AAR383	1.509	1.578	1590 54/19	0.436	12	Green	100	3	58
AAR401	1.579	1.651	1780 84/19	0.436	13	Orange	100	3	60
AAR419	1.652	1.728	—	0.436	13	Purple	100	3	60
AAR439	1.729	1.809	2156 84/19	0.436	14	Red	100	3	64
AAR459	1.810	1.898	2500 91W	0.436	14	Black	100	3	64
AAR482	1.899	1.991	—	0.436	15	White	100	3	74
AAR506	1.992	2.090	—	0.436	15	Yellow	100	3	74
AAR531	2.091	2.193	—	0.436	15	Brown	100	3	82
Galvanized Steel (left hand Lay)									
SAR058	0.229	0.243	1/4, 7 WIRE	0.086	10	Black	40	50	38
SAR062	0.244	0.259	1/4, 3 WIRE	0.086	10	Yellow	40	50	38
SAR078	0.309	0.326	5/16, 3 OR 7 WIRE	0.100	11	Black	44	50	60
SAR088	0.347	0.373	3/8, 3 OR 7 WIRE	0.100	12	Orange	48	50	70
SAR105	0.414	0.436	7/16, 3 OR 7 WIRE	0.119	12	Green	52	20	54
SAR124	0.491	0.521	1/2, 7 OR 19 WIRE	0.138	12	Blue	56	20	64
Alumoweld® (Left Hand Lay)									
AWAR043	0.169	0.178	3 #12 AW	0.102	7	Orange	40 (S) 52 (D)	50	31 (S) 40 (D)
AWAR050	0.196	0.207	3 # 11 AW	0.102	7	Black	40 (S) 52 (D)	50	31 (S) 40 (D)
AWAR055	0.218	0.225	3 # 10 AW, 4M AW	0.102	8	Green	40 (S) 52 (D)	50	35 (S) 46 (D)
AWAR060	0.237	0.249	7 # 12 AW, 1/4", 6M AW, 3 # 9 AW	0.102	9	Yellow	40 (S) 52 (D)	50	39 (S) 51 (D)
AWAR067	0.264	0.277	7 # 11 AW, 9/32", 8M AW, 3 # 8 AW	0.114	9	Blue	42 (S) 54 (D)	25	27 (S) 35 (D)
AWAR075	0.296	0.314	7 # 10 AW, 5/16", 10M AW, 3 # 7 AW	0.114	9	Black	46 (S) 58 (D)	25	29 (S) 37 (D)
AWAR085	0.334	0.352	7 # 9 AW, 11/31", 12.5M AW, 3 # 6 AW	0.114	10	Yellow	50 (S) 62 (D)	25	33 (S) 44 (D)
AWAR095	0.373	0.392	7 # 8 AW, 3/8", 3 # 5 AW	0.128	10	Orange	50 (S) 62 (D)	25	44 (S) 54 (D)
AWAR104	0.409	0.425	18M AW	0.128	11	Black	54 (S) 66 (D)	25	52 (S) 62 (D)
AWAR108	0.426	0.450	7 # 7 AW, 7/16", 20M AW	0.128	12	Green	56 (S) 68 (D)	25	59 (S) 70 (D)
AWAR121	0.477	0.504	7 # 6 AW, 1/2"	0.144	11	Blue	56 (S) 68 (D)	20	52 (S) 65 (D)
AWAR136	0.535	0.565	7 # 5 AW, 9/16"	0.162	12	Yellow	60 (S) 72 (D)	10	39 (S) 48 (D)
AWAR150	0.593	0.625	7 # 4 AW, 5/8"	0.183	11	Black	60 (S) 72 (D)	10	59 (S) 56 (D)

End Finish of Rods:

1. Chamfered ends – standard on diameters up to 0.250"
2. Ball ends – standard on diameters greater than 0.250"
3. Tapered ends for EHV – designated by suffix 'EHV'
4. For double armor rods, contact the AFL Technical Support Team

continued



Armor Rods Cross Reference

Single		
AFL No.	Dulmison®	PLP**
Aluminum		
AAR062	AAR 0620	AR-0110
AAR066	AAR 0660	AR-0111
AAR069	AAR 0695	AR-0112
AAR073	AAR 0735	AR-0113
AAR078	AAR 0785	AR-0114
AAR083	AAR 0830	AR-0115
AAR088	AAR 0880	AR-0116
AAR093	AAR 0930	AR-0117
AAR099	AAR 0990	AR-0118
AAR105	AAR 1050	AR-0119
AAR111	AAR 1110	AR-0120
AAR118	AAR 1180	AR-0121
AAR124	AAR 1245	AR-0122
AAR132	AAR 1325	AR-0123
AAR140	AAR 1400	AR-0124
AAR149	AAR 1490	AR-0125
AAR154	AAR 1540	AR-0126
AAR160	AAR 1605	AR-0127
AAR166	AAR 1665	AR-0128
AAR172	AAR 1725	AR-0129
AAR179	AAR 1790	AR-0130
AAR188	AAR 1880	AR-0131
AAR199	AAR 1990	AR-0132
AAR207	AAR 2070	AR-0133
AAR215	AAR 2150	AR-0134
AAR230	AAR 2305	AR-0135
AAR236	AAR 2360	AR-0136
AAR248	AAR 2480	AR-0137
AAR258	AAR 2585	AR-0138
AAR263	AAR 2630	AR-0139
AAR270	AAR 2705	AR-0140
AAR279	AAR 2790	AR-0141
AAR289	AAR 2895	AR-0142
AAR295	AAR 2950	AR-0143
AAR307	AAR 3070	AR-0144
AAR322	AAR 3225	AR-0145
AAR337	AAR 3375	AR-0146
AAR353	AAR 3535	AR-0147
AAR366	AAR 3660	AR-0163
AAR383	AAR 3835	AR-0164
AAR401	AAR 4010	AR-0165
AAR419	AAR 4195	AR-0166
AAR439	AAR 4390	AR-0167
AAR459	AAR 4595	AR-0168
AAR482	AAR 4825	AR-0169
AAR506	AAR 5060	AR-0170
AAR531	AAR 5310	AR-0171

Single		
AFL No.	Dulmison®	PLP**
Aluminum (cont.)		
AAR248EHV	—	AR-0500
AAR258EHV	—	AR-0501
AAR263EHV	—	AR-0502
AAR270EHV	—	AR-0503
AAR279EHV	—	AR-0504
AAR289EHV	—	AR-0505
AAR295EHV	—	AR-0506
AAR307EHV	—	AR-0507
AAR322EHV	—	AR-0508
AAR337EHV	—	AR-0509
AAR353EHV	—	AR-0510
AAR366EHV	—	AR-0511
AAR383EHV	—	AR-0512
AAR401EHV	—	AR-0513
AAR419EHV	—	AR-0514
AAR439EHV	—	AR-0516
AAR459EHV	—	AR-0517
AAR482EHV	—	AR-0518
AAR506EHV	—	AR-0519
AAR531EHV	—	AR-0520
Galvanized Steel		
SAR058	SAR 0580	AR-1123
SAR062	SAR 0620	AR-1124
SAR078	SAR 0785	AR-1128
SAR088	SAR 0880	AR-1130
SAR105	SAR 1050	AR-1133
SAR124	SAR 1245	AR-1136
Alumoweld®		
AWAR043	AWAR 0430	AR-2113
AWAR050	AWAR 0500	AR-2116
AWAR055	AWAR 0555	AR-2118
AWAR060	AWAR 0600	AR-2120
AWAR067	AWAR 0670	AR-2122
AWAR075	AWAR 0750	AR-2124
AWAR085	AWAR 0850	AR-2126
AWAR095	AWAR 0950	AR-2128
AWAR104	AWAR 1040	AR-2130
AWAR108	AWAR 1080	AR-2131
AWAR121	AWAR 1210	AR-2133
AWAR136	AWAR 1360	AR-2135
AWAR150	AWAR 1505	AR-2137

Double		
Aluminum		
AFL No.	Dulmison®	PLP**
Aluminum		
DAAR062	DAAR 0620	AR-0310
DAAR066	DAAR 0660	AR-0311
DAAR069	DAAR 0695	AR-0312
DAAR073	DAAR 0735	AR-0313
DAAR078	DAAR 0785	AR-0314
DAAR083	DAAR 0830	AR-0315
DAAR088	DAAR 0880	AR-0316
DAAR093	DAAR 0930	AR-0317
DAAR099	DAAR 0990	AR-0318
DAAR105	DAAR 1050	AR-0319
DAAR111	DAAR 1110	AR-0320
DAAR118	DAAR 1180	AR-0321
DAAR124	DAAR 1245	AR-0322
DAAR132	DAAR 1325	AR-0323
DAAR140	DAAR 1400	AR-0324
DAAR149	DAAR 1490	AR-0325
DAAR154	DAAR 1540	AR-0326
DAAR160	DAAR 1605	AR-0327
DAAR166	DAAR 1665	AR-0328
DAAR172	DAAR 1725	AR-0329
DAAR179	DAAR 1790	AR-0342
Alumoweld®		
DAWAR043D	DAWAR 0430	AR-2313
DAWAR050D	DAWAR 0500	AR-2316
DAWAR055D	DAWAR 0555	AR-2318
DAWAR060D	DAWAR 0600	AR-2320
DAWAR067D	DAWAR 0670	AR-2322
DAWAR075D	DAWAR 0750	AR-2324
DAWAR085D	DAWAR 0850	AR-2326
DAWAR095D	DAWAR 0950	AR-2328
DAWAR104D	DAWAR 1040	AR-2330
DAWAR108D	DAWAR 1080	AR-2331
DAWAR121D	DAWAR 1210	AR-2333
DAWAR136D	DAWAR 1360	AR-2335
DAWAR150D	DAWAR 1505	AR-2337

*PLP is a trademark of Preformed Line Products.

Line Guards

Line guards are designed to protect the conductor by reducing bending, compression, and abrasion at the support point, particularly where hand-ties are used. Line guards are recommended as protection for spans of less than 300 ft. (91 m). Manufactured from aluminum alloy, they are designed for use with ACSR, AAC, AAAC, ACSS, SSAC, TW Types and ACAR conductors. All guard sets are manufactured with right-hand lay as standard.

Features

Color Coded and Center Marked

For ease of identification to conductor size, the line guards are color coded in the center of the rod. This feature also assists in alignment of the rods during installation.

Repair Damage

When no more than 25% of the outside strands on an ACSR or aluminum conductor have been damaged outside the support area, line guards may be used to restore 100% of the rated conductance and strength of the line. Do not use line guards for repair at the support point.

Tap Over

Line guards may be tapped over on ACSR and aluminum conductor. Where tapping is used, it is strongly recommended that the conductor be thoroughly wire brushed and an oxide inhibitor be applied.

Extra High Voltage Applications

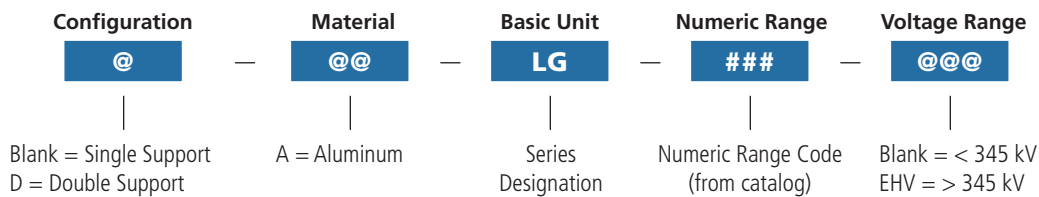
For 345 kV and above, the line guards ends are modified to eliminate Corona effects and include a suffix of 'EHV' at the end of the product number.

Customized Line Guards

For line guards with special requirements, such as longer lengths or non-standard lay direction contact the AFL Technical Support Team at 1.800.866.7385.



Ordering Information



Example: For single 795 26/7, Aluminum conductor diameter of 1.099 to 1.139 inches and Extra High Voltage, the complete catalog number is: **ALG279EHV**

Ordering Information—Line Guards

AFL No.	Conductor Diameter Range		Nominal Cable Size	Rod Diameter (inches)	Qty of Set	Color Code	Rod length (inches)	Packaging per box	
	Min. (inches)	Max. (inches)						Units	Weight (lbs)
ALG046	0.182	0.193	#6, 7W All Aluminum	0.102	7	Purple	17 (S) 29 (D)	100	12 (S) 19 (D)
ALG049	0.194	0.207	#6, 7W Aluminum Alloy	0.102	7	Blue	17 (S) 29 (D)	100	12 (S) 19 (D)
ALG056	0.220	0.228	#5, 6/1	0.121	7	White	17 (S) 29 (D)	100	16 (S) 26 (D)
ALG058	0.229	0.243	#4, 7W All Aluminum	0.121	8	Brown	19 (S) 31 (D)	100	20 (S) 32 (D)
ALG062	0.244	0.259	#4, 6/1, 7/1	0.121	8	Orange	19 (S) 31 (D)	100	20 (S) 32 (D)
ALG066	0.260	0.273	#3, 7W All Aluminum	0.121	8	Green	19 (S) 31 (D)	100	20 (S) 32 (D)
ALG069	0.274	0.289	#3, 7W Aluminum Alloy	0.121	9	Yellow	21 (S) 33 (D)	100	25 (S) 38 (D)
ALG073	0.290	0.308	#2, 7W All Aluminum	0.121	9	Purple	21 (S) 33 (D)	100	25 (S) 38 (D)
ALG078	0.309	0.326	#2, 6/1, 7/1	0.121	9	Red	21 (S) 33 (D)	100	25 (S) 38 (D)
ALG083	0.327	0.346	#1, 7W All Aluminum	0.121	10	Blue	21 (S) 33 (D)	100	28 (S) 42 (D)
ALG088	0.347	0.366	#1, 6/1	0.121	10	Green	23 (S) 35 (D)	100	30 (S) 44 (D)
ALG093	0.367	0.389	1/0, 7W All Aluminum	0.121	11	Black	23 (S) 35 (D)	100	32 (S) 46 (D)
ALG099	0.390	0.413	1/0, 6/1	0.121	11	Yellow	25 (S) 37 (D)	100	35 (S) 50 (D)
ALG105	0.414	0.436	3/0, 7W-19W Comp.	0.121	12	Brown	25 (S) 37 (D)	50	20 (S) 29 (D)
ALG111	0.437	0.463	2/0, 6/1, 7/1	0.121	13	Blue	27 (S) 39 (D)	50	23 (S) 32 (D)
ALG118	0.464	0.490	3/0, 7W-19W	0.121	13	Green	27 (S) 39 (D)	50	24 (S) 32 (D)
ALG124	0.491	0.521	3/0, 6/1	0.121	14	Orange	29 (S) 41 (D)	50	26 (S) 36 (D)
ALG132	0.522	0.551	4/0, 7W-19W	0.121	14	Black	29 (S) 41 (D)	50	26 (S) 36 (D)
ALG140	0.552	0.585	4/0 6/1	0.121	15	Red	31 (S) 43 (D)	50	30 (S) 40 (D)
ALG149	0.586	0.606	266.8 19W	0.146	14	Black	31 (S) 43 (D)	50	40 (S) 54 (D)
ALG154	0.607	0.630	266.8 18/1	0.146	14	White	33 (S) 45 (D)	50	42 (S) 57 (D)
ALG160	0.631	0.655	266.8 26/7	0.146	14	Yellow	33 (S) 45 (D)	50	42 (S) 57 (D)

Ordering Information—Line Guards (cont.)

AFL No.	Conductor Diameter Range		Nominal Cable Size	Rod Diameter (inches)	Qty of Set	Color Code	Rod length (inches)	Packaging per box	
	Min. (inches)	Max. (inches)						Units	Weight (lbs)
ALG166	0.656	0.679	336.4 19W	0.146	15	Brown	35 (S) 47 (D)	50	48 (S) 62 (D)
ALG172	0.680	0.703	303.714	0.146	15	Blue	35 (S) 47 (D)	50	48 (S) 62 (D)
ALG179	0.704	0.740	336.4 26/7	0.146	16	Green	37 (S) 49 (D)	25	54 (S) 70 (D)
ALG188	0.741	0.792	397.5 18/1, 26/7, 24/7	0.146	17	Orange	39 (S) 51 (D)	25	60 (S) 77 (D)
ALG201	0.793	0.840	477 18/1, 19W, 37W	0.146	18	Purple	39 (S) 51 (D)	25	64 (S) 82 (D)
ALG213	0.841	0.898	477 24/7, 26/7, 30/7	0.146	19	Blue	41 (S) 53 (D)	25	36 (S) 45 (D)
ALG228	0.899	0.954	556.5 24/7, 26/7, 30/7, 19W, 37W	0.167	18	Green	43 (S) 55 (D)	25	46 (S) 58 (D)
ALG242	0.955	0.986	605 26/7, 636	0.182	17	White	45 (S) 57 (D)	25	54 (S) 68 (D)
ALG250	0.987	1.016	636 26/7, 666.6 24/7	0.182	18	Yellow	45 (S) 57 (D)	25	58 (S) 72 (D)
ALG258	1.017	1.064	715.5 26/7, 24/7, 795 37W, 61W	0.182	18	Brown	47 (S) 59 (D)	25	60 (S) 74 (D)
ALG270	1.065	1.098	874.5 37W, 61W	0.204	17	Green	49 (S) 61 (D)	15	44 (S) 25 (D)
ALG279	1.099	1.153	795 26/7, 30/19	0.250	15	Orange	49 (S) 61 (D)	15	58 (S) 72 (D)
ALG293	1.154	1.208	954 45/7, 54/7	0.250	15	Purple	51 (S) 63 (D)	15	62 (S) 75 (D)
ALG307	1.209	1.268	1192.5 61W	0.250	16	Black	53 (S) 65 (D)	15	68 (S) 82 (D)
ALG322	1.269	1.327	1192.5 45/7	0.250	17	White	53 (S) 65 (D)	10	48 (S) 58 (D)
ALG337	1.328	1.390	1351.5 61W, 1272 45/7, 54/19	0.250	17	Yellow	55 (S) 67 (D)	10	50 (S) 60 (D)
ALG353	1.391	1.440	1431 45/7	0.310	15	Brown	57 (S) 69 (D)	5	36 (S) 44 (D)
ALG366	1.441	1.508	1431 54/19	0.310	16	Blue	59 (S) 71 (D)	5	40 (S) 48 (D)
ALG383	1.509	1.578	1590 54/19, 1750 61W	0.310	16	Green	61 (S) 73 (D)	5	42 (S) 49 (D)
ALG401	1.579	1.651	1780 84/19	0.310	17	Orange	63 (S) 75 (D)	5	43 (S) 53 (D)
ALG419	1.652	1.728	2034 72/7	0.365	15	Purple	65 (S) 77 (D)	5	54 (S) 66 (D)
ALG439	1.729	1.890	2156 84/19	0.365	16	Red	67 (S) 79 (D)	5 (S) 3 (D)	55 (S) 45 (D)

End Finish of Rods:

1. Chamfered ends - standard on diameters up to 0.250". 2. Ball ends - standard on diameters greater than 0.250". 3. Tapered ends for EHV - designated by suffix 'EHV'.

Line Guards Cross Reference

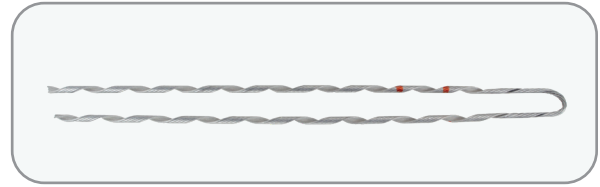
Single		
Aluminum		
AFL No.	Dulmison®	PLP®*
ALG046	ALG0460	MG-0122
ALG049	ALG0490	MG-0123
ALG056	ALG0560	MG-0125
ALG058	ALG0580	MG-00126
ALG062	ALG0620	MG-0127
ALG066	ALG0660	MG-0128
ALG069	ALG0690	MG-0129
ALG073	ALG0730	MG-0130
ALG078	ALG0780	MG-0131
ALG083	ALG0830	MG-0132
ALG088	ALG0880	MG-0133
ALG093	ALG0930	MG-0134
ALG099	ALG0990	MG-0135
ALG105	ALG1050	MG-0136
ALG111	ALG1110	MG-0137
ALG118	ALG1180	MG-0138
ALG124	ALG1240	MG-0139
ALG132	ALG1320	MG-0143
ALG140	ALG 1400	MG-0141
ALG149	ALG 1490	MG-0142
ALG154	ALG 1540	MG-0143
ALG160	ALG 1605	MG-0144
ALG166	ALG 1665	MG-0145
ALG172	ALG 1725	MG-0146
ALG179	ALG 1790	MG-0147
ALG188	ALG 1880	MG-0148
ALG201	ALG 2015	MG-0149
ALG213	ALG 2135	MG-0150
ALG228	ALG 2285	MG-0151
ALG242	ALG 2425	MG-0152
ALG250	ALG 2505	MG-0153
ALG258	ALG 2585	MG-0154
ALG270	ALG 2705	MG-0155
ALG279	ALG 2790	MG-0156
ALG293	ALG 2930	MG-0157
ALG307	ALG 3070	MG-0158
ALG322	ALG 3225	MG-0159
ALG337	ALG 3375	MG-0160
ALG353	ALG 3535	MG-0161
ALG366	ALG 3660	MG-0162
ALG383	ALG 3835	—
ALG401	ALG 4010	—
ALG419	ALG4195	—
ALG439	ALG 4390	—

Double		
Aluminum		
AFL No.	Dulmison®	PLP®*
DALG046	DALG0460	MG-0305
DALG049	DALG0490	MG-0306
DALG056	DALG0560	MG-0308
DALG058	DALG0580	MG-0309
DALG062	DALG0620	MG-0310
DALG066	DALG0660	MG-0311
DALG069	DALG0690	MG-0312
DALG073	DALG0730	MG-0313
DALG078	DALG0780	MG-0314
DALG083	DALG0830	MG-0315
DALG088	DALG0880	MG-0316
DALG093	DALG0930	MG-0317
DALG099	DALG0990	MG-0318
DALG105	DALG1050	MG-0319
DALG111	DALG1110	MG-0320
DALG118	DALG1180	MG-0321
DALG124	DALG1240	MG-0322
DALG132	DALG1320	MG-0324
DALG140	DALG 1400	MG-0324
DALG149	DALG 1490	MG-0325
DALG154	DALG1540	MG-0326
DALG160	DALG 1605	MG-0327
DALG166	DALG 1665	MG-0328
DALG172	DALG 1725	MG-0329
DALG179	DALG 1790	MG-0330
DALG188	DALG 1880	MG-0331
DALG201	DALG 2015	MG-0332
DALG213	DALG 2135	MG-0333
DALG228	DALG 2285	MG-0334
DALG242	DALG 2425	MG-0335
DALG250	DALG 2505	MG-0336
DALG258	DALG 2585	MG-0337
DALG270	DALG 2705	MG-0338
DALG279	DALG 2790	MG-0339
DALG293	DALG 2930	MG-0340
DALG307	DALG 3070	MG-0341
DALG322	DALG 3225	MG-0342
DALG337	DALG 3375	MG-0343
DALG353	DALG 3535	MG-0344
DALG366	DALG 3660	MG-0345
DALG383	DALG 3835	—
DALG401	DALG 4010	—
DALG419	DALG4195	—
DALG439	DALG 4390	—

Guy Dead End

Materials

- Dead End – Manufactured of aluminum covered steel.
- Color code and crossover marks – Identifies conductor size and indicates application starting point.
- Identification tag – Shows catalog number, conductor diameter range, and nominal conductor size.



General Recommendations

Guy Dead Ends are designed for guying of poles in the construction of power and communication lines. Guy dead ends are designed for use with standard guy strands of 1" diameter or less. Manufactured from similar wire, the dead ends can be applied to galvanized steel or Alumoweld® guy wire. Unless otherwise specified, all dead ends and guy strand are left hand lay. Once in place, under normal conditions, guy dead ends hold their grip regardless of the condition of the conductor to which they are attached, relaxed or in tension.

Offset Tips

To simplify installation, AFL Conductor Accessories' guy dead ends are designed with offset ends. This feature is important in that toward the end of the installation of the dead end, the tips are easier to handle and wrap around the cable. No additional modification is required.

Reusable after Initial Installation

Guy dead ends may be removed and reapplied twice after initial installation to retension guy strands. Should it become necessary to remove a guy dead end after it has been installed for a period of three months, it should be replaced with a new dead end.

Color Coded

For ease of identification to guy strand size, the dead ends are color coded on both legs of the product.

Cabled Loop

Guy dead ends are manufactured with a cabled loop for all strand sizes.

Customized Guy Dead Ends

For guy dead ends with special requirements, such as longer lengths or non-standard lay direction, contact AFL at (800) 890-8878.

Selection Information

GYDE	AW	XXX
Guy Dead End	AW = Alumoweld GB = Galvanized B Coat GC = Galvanized C Coat	Numeric Range Code

continued
→

Guy Dead Ends

AFL No.	Diameter Range (inches)	Nominal Guy Size	Units/Carton	Weight/Carton (pounds)	Applied Length (inches)	Color Code
Alumoweld®						
GYDEAW044	0.174 - 0.181	3/16, 3#12	100	21	18	Orange
GYDEAW055	0.219 - 0.230	4M, 3#10	50	20	21	Green
GYDEAW060	0.237 - 0.247	1/4, 6M, 3#9	50	20	24	Yellow
GYDEAW068	0.270 - 0.280	8M, 3#8	50	22	24	Blue
GYDEAW077	0.303 - 0.313	5/16, 10M, 3#7, 3#9	50	29	26	Black
GYDEAW082	0.325 - 0.336	11.5M	50	30	26	Green
GYDEAW087	0.343 - 0.355	12.5M, 3#6, 7#9	50	41	29	Yellow
GYDEAW090	0.356 - 0.364	14M	50	53	31	Blue
GYDEAW096	0.380 - 0.394	3/8, 16M, 3#5, 7#8	50	55	32	Orange
GYDEAW104	0.410 - 0.426	18M	25	37	34	Black
GYDEAW108	0.427 - 0.442	7/16, 7#7	25	50	36	Green
GYDEAW112	0.443 - 0.459	20M	25	55	37	Yellow
GYDEAW120	0.475 - 0.494	1/2, 7#6	25	60	42	Blue
GYDEAW125	0.495 - 0.515	19#10	25	62	44	Green
GYDEAW131	0.516 - 0.536	25M	20	66	47	Red
GYDEAW136	0.537 - 0.555	7#5	20	67	48	Yellow
GYDEAW141	0.556 - 0.570	9/16	15	68	49	Blue
GYDEAW145	0.571 - 0.591	19#9	20	68	50	Orange
GYDEAW150	0.592 - 0.612	–	15	50	50	Green
GYDEAW155	0.613 - 0.635	5/8	10	49	54	Yellow
GYDEAW161	0.636 - 0.661	19#8	10	50	56	Black
GYDEAW168	0.662 - 0.686	19 x 0.1363	10	66	59	Blue
GYDEAW174	0.687 - 0.712	–	10	68	61	Red
GYDEAW181	0.713 - 0.741	19#7, 37#10	10	70	63	Black
GYDEAW188	0.742 - 0.772	3/4, 19 x 0.1499	5	41	71	Yellow
GYDEAW201	0.773 - 0.800	–	5	50	80	Blue
GYDEAW203	0.801 - 0.827	37#9, 19#6, 19 x 0.1660	5	69	84	Green
GYDEAW215	0.849 - 0.866	19 x 0.1730, 37 x 0.121	5	70	87	Black
GYDEAW228	0.880 - 0.898	7/8, 37#8	5	76	91	Yellow
GYDEAW231	0.910 - 0.934	19#5, 19 x 0.1868	5	78	93	Blue
GYDEAW249	0.970 - 0.990	37 X 0.1401	4	52	95	Red
GYDEAW256	0.991-1.010	1, 37#7	4	85	108	Green
GYDEAW279	1.050-1.120	37 X 0.1571	3	83	117	Black
GYDEAW288	1.130-1.170	37#6	3	86	120	Yellow
Galvanized "B" Coat						
GYDEGB047	–	3/16"	100	20	20	Red
GYDEGB055	–	7/32"	100	25	22	Green
GYDEGB061	–	1/4"	50	17	25	Yellow
GYDEGB071	–	9/32"	50	27	28	Blue
GYDEGB079	–	5/16"	50	35	30	Black
GYDEGB091	–	3/8"	50	52	35	Orange
GYDEGB110	–	7/16"	50	40	38	Green
Galvanized "C" Coat						
GYDEGC047	–	3/16"	100	20	20	Red
GYDEGC055	–	7/32"	100	25	22	Green
GYDEGC061	–	1/4"	50	17	25	Yellow
GYDEGC071	–	9/32"	50	27	28	Blue
GYDEGC079	–	5/16"	50	35	30	Black
GYDEGC091	–	3/8"	50	52	35	Orange
GYDEGC110	–	7/16"	50	40	38	Green

Comparative Catalog Number Cross Reference

These comparative catalog number cross-reference lists are intended only as a guide.
AFL does not assume responsibility for errors, omissions or subsequent changes.

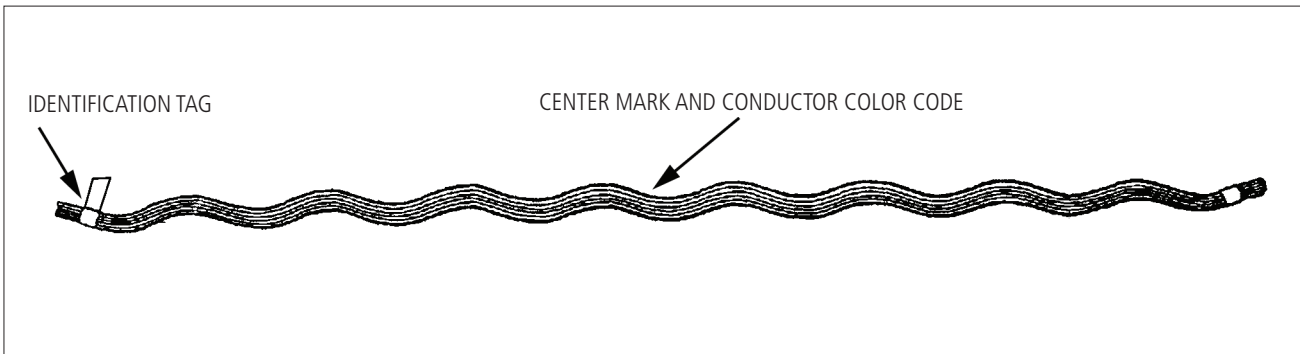
Guy Dead Ends – Galvanized Coating

AFL No.	Helical	PLP
GYDEGB 047	HG 205 3/16	GDE-1102
GYDEGB 055	HG 206 7/32	GDE-1103
GYDEGB 061	HG 207 1/4	GDE-1104
GYDEGB 071	HG 208 9/32	GDE-1105
GYDEGB 079	HG 209 5/16	GDE-1106
GYDEGB 091	HG 210 3/8	GDE-1107
GYDEGB 110	HG 211 7/16	GDE-1108

Guy Dead Ends – Alumoweld

AFL No.	Helical	PLP
GYDE AW 044	HG 5103 #12	AWDE-4102
GYDE AW 055	HG 515 4M	AWDE-4108
GYDE AW 060	HG 517 6M	AWDE-4110
GYDE AW 068	HG 519 8M	AWDE-4113
GYDE AW 077	HG 521 10M	AWDE-4116
GYDE AW 082		AWDE-4118
GYDE AW 087	HG 523 12.5M	AWDE-4119
GYDE AW 090	HG 524 14M	AWDE-4120
GYDE AW 096	HG 525 16M	AWDE-4122
GYDE AW 104	HG 526 18M	AWDE-4124
GYDE AW 108	HG 528 20M	AWDE-4125
GYDE AW 112	HG 528 20M	AWDE-4126
GYDE AW 120	HG 530 7 #6	AWDE-4128
GYDE AW 131	HG 531 25M	AWDE-4130
GYDE AW 136	HG 532 7#5	AWDE-4131
GYDE AW 120		BG-4168
GYDE AW 125		BG-4169
GYDE AW 131		BG-4170
GYDE AW 136		BG-4171
GYDE AW 141		BG-4172
GYDE AW 145		BG-4173
GYDE AW 150		BG-4174
GYDE AW 155		BG-4175
GYDE AW 161		BG-4176
GYDE AW 168		BG-4177
GYDE AW 174		BG-4178
GYDE AW 181		BG-4179
GYDE AW 188		BG-4180
GYDE AW 201		BG-4181
GYDE AW 203		BG-4183
GYDE AW 215		BG-4185
GYDE AW 228		BG-4187
GYDE AW 249		BG-4188
GYDE AW 256		BG-4189
GYDE AW 279		BG-4190
GYDE AW 288		BG-4191
GYDE AW 322		BG-4192

Installation Instructions for Armor Rods



DE-ENERGIZED APPLICATION



1. For conductor sizes 4/0 and above, a maximum of 4 rods may be subsetted together. To subset, hold the rods flat making sure none of the rods are crossed, then twist the rods with the lay direction until they subset together. For sizes less than 4/0, see General Notes on back page.



2. Continue twisting the rods until they are completely subsetted end to end. Repeat the procedure until all the rods are in subsets.



3. Place the center of the first subset onto the conductor and begin wrapping.



4. Wrap the subset to completion.

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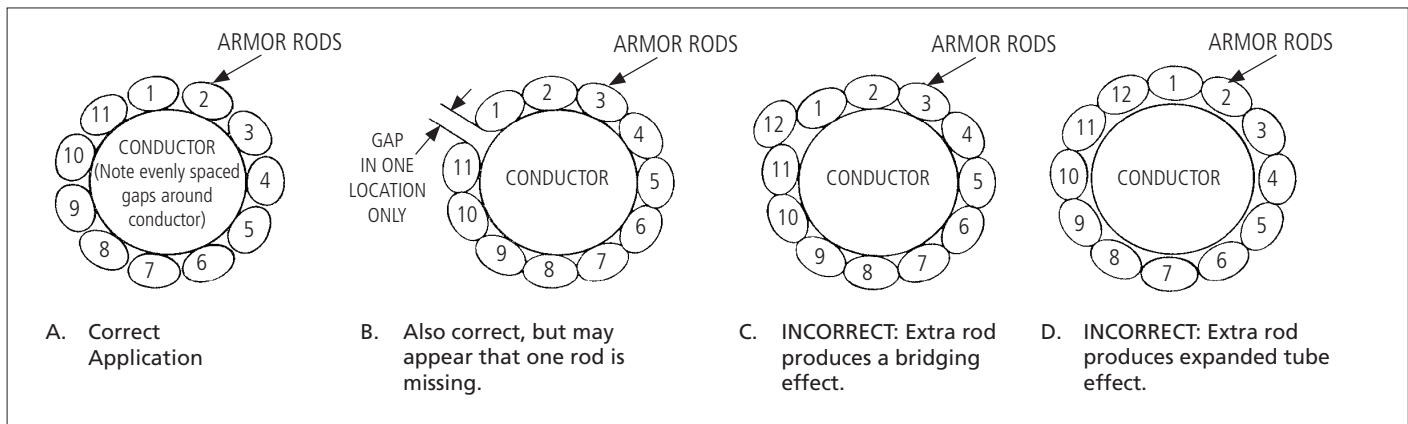
Armor Rods and Line Guards (cont.)



5. Repeat the procedure for the remaining subsets.



6. When complete, make sure the ends have been snapped into place.



GENERAL NOTES

- For conductors smaller than 4/0, do not attempt to apply more than one half the number of rods per set at one time. For smaller conductors, the armor rods may be subsetted prior to installation or the rods may be subsetted while simultaneously wrapping them onto the conductor.
- Since armor rods are considered precision devices, great care should be taken to ensure that the units are not distorted during installation. Distortion may cause the units to fit loosely on the conductor which could cause abrasion problems.
- End Alignment
 - 230 kV and Below:** The alignment of the rod ends should be within 2 inches.
 - 345 kV and Above:** The alignment of the rod ends should be within 1 1/2 inches.

WARRANTY

The enclosed hardware will be free from defects in material and manufacturing workmanship. This warranty does not apply to normal wear of hardware, damage resulting from mishandling, misuse, neglect, improper storage, accidents, repair or alteration.

SAFETY

CONSULT YOUR SAFETY TRAINING DEPARTMENT TO ENSURE THAT THE INSTALLATION PROCEDURE ADOPTED IS IN COMPLIANCE WITH YOUR COMPANY'S STANDARD PROCEDURE.

Armor Rods and Line Guards Strength Restoration

ACSR, All Aluminum and Aluminum Alloy Conductors

Material	ACSR												AAC			AAAC	
Configuration	5/1	6/1	7/1	8/1	18/1	12/7	24/7	26/7	30/7	45/7	54/7	7W	19W	37W	61W	7W	19W
Maximum number of broken strands allowed																	
Armor Rods*	2	3	3	4	6	6	7	8	9	10	12	2	6	9	12	3	6
Line Guards*	1	1	1	2	3	3	3	4	5	5	6	1	3	4	6	1	3

*Not applicable if steel core is damaged

Conductor Splices and Full Tension Splices Strength Restoration

ACSR, All Aluminum and Aluminum Alloy Conductors

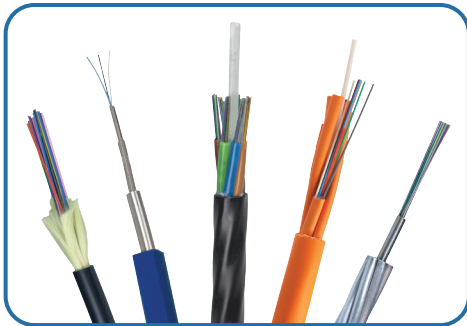
Material	ACSR												AAC			AAAC	
Configuration	5/1	6/1	7/1	8/1	18/1	12/7	24/7	26/7	30/7	45/7	54/7	7W	19W	37W	61W	7W	19W
Maximum number of broken strands allowed																	
Conductor Splice*	5	6	7	8	18	12	24	26	30	45	54	7	19	37	61	7	19
ACSR Full Tension Splice	6	7	8	9	19	19	31	33	37	52	61	n/a	n/a	n/a	n/a	n/a	n/a

*Not applicable if steel core is damaged

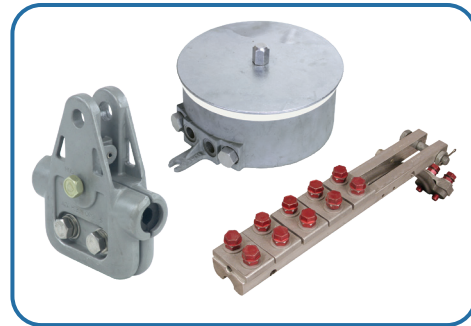
- Steel Core
- Aluminum Material

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