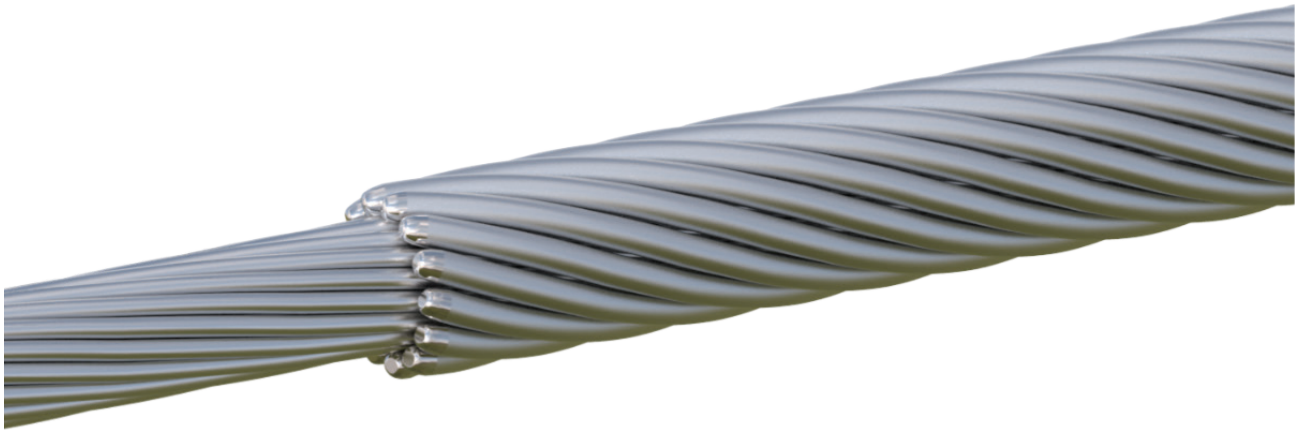




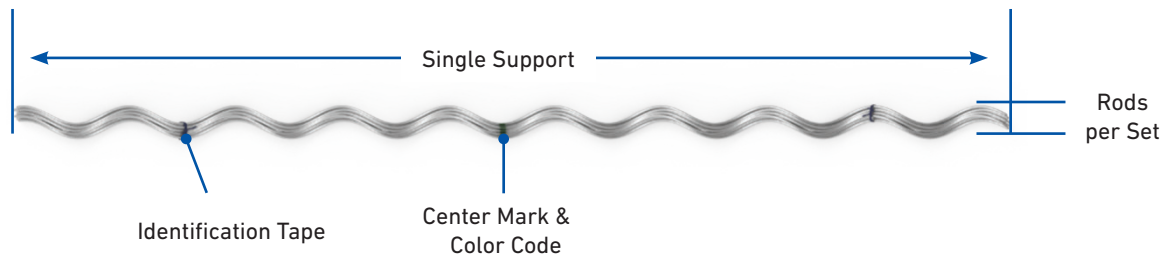
ARMOR RODS

Armor Rods are specially designed to offer protection to conductors. Armor Rods safeguard against static and dynamic bending stresses and compression stress, abrasion, and flash-over. They can also be used for repair applications. Armor Rods are recommended as minimum protection for clamp-type supports or suspensions whereas Line Guards are recommended as minimum protection for hand-tied spans.

FEATURES AND BENEFITS

- Ability to repair damaged conductors
- Color coded for easy identification
- Rated for high-temperature use up to 250°C
- PARROT BILL® Armor Rods suitable for EHV use (345 kV and above)
- Sold in sets for the appropriate conductor application

COMPONENTS



Armor Rods

Characteristic	Specification
Single Support and Double Support Length	Identified by "S" and "D" appearing in the length column on the catalog page. Should the maximum distance between tied supports exceed 12" on double crossarm construction, consult PLP.
Rod Diameter	Adds to conductor O.D., used to arrive at applied overall diameter
Rods per Set	Indicates the proper number of rods for each application. Armor Rods are sold in sets.
Center Mark	Establishes alignment of rods during application.
Color Code	Assists in identification of conductor size, corresponding to tabular information appearing on catalog page.

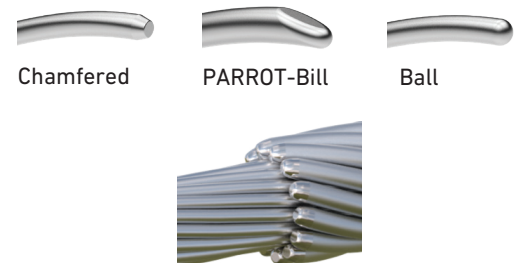
DESIGN INFORMATION

PARROT-BILL® Ends

To meet the corona onset and RIV requirements for most extra high-voltage applications (345 kV and higher applications), PARROT-BILL Ends are to be used instead of the standard ball-end rods. Consult PLP for questions on EHV applications.

Rod End Treatment

Application-specific rod end options help maximize durability and strength.



O.D. CALCULATIONS

Applied overall diameter can be computed by summing the conductor outer diameter with two times the rod diameter. The rod diameter can be obtained from the catalog page tables. Conductor/Strand O.D. can be found in the Conductor Chart, General Information section.

Rod Diameter x 2 + Conductor Diameter = Total Applied O.D.

Example: $0.167" \times 2 + 0.398" = 0.732"$

Thermal Rating (Continuous) within a high-temperature Suspension Clamp: 250°C

ACSS Repair: 250°C

ACRS Repair: 125°C



Aluminum

For use on ACSR, Compacted ACSR, Aluminum Alloy All-Aluminum, AWAC Compacted All-Aluminum, ACAR, ACSS (AW & TW)

Catalog Number	EHV Armor Rod Catalog Number	Diameter Range		Units	Weight	Length	Rod Diameter	Rods per Set	Color Code
					lb (kg)				
		in	mm	Per Carton		in (m)	in (mm)		
AR-0106		0.194 - 0.207	4.92 - 5.56	100	35 (15.9)	[S] 40 (1.02) [D] 52 (1.32)	0.121 (3.07)	7	Blue
AR-0306				100	45 (20.4)				
AR-0107		0.208 - 0.219	5.28 - 5.56	100	35 (15.9)	[S] 40 (1.02) [D] 52 (1.32)	0.121 (3.07)	7	Black
AR-0307				100	45 (20.4)				
AR-0108		0.220 - 0.228	5.58 - 5.79	100	40 (18.1)	[S] 40 (1.02) [D] 52 (1.32)	0.121 (3.07)	8	White
AR-0308				100	51 (23.1)				
AR-0109		0.229 - 0.243	5.82 - 6.17	100	40 (18.1)	[S] 40 (1.02) [D] 52 (1.32)	0.121 (3.07)	8	Brown
AR-0309				100	51 (23.1)				
AR-0110		0.244 - 0.259	6.20 - 6.58	50	25 (11.3)	[S] 40 (1.02) [D] 52 (1.32)	0.146 (3.71)	7	Orange
AR-0310				50	32 (14.5)				
AR-0111		0.260 - 0.273	6.60 - 6.93	50	26 (11.8)	[S] 42 (1.07) [D] 54 (1.37)	0.146 (3.71)	7	Green
AR-0311				50	34 (15.4)				
AR-0112		0.274 - 0.289	6.96 - 7.34	50	30 (13.6)	[S] 42 (1.07) [D] 54 (1.37)	0.146 (3.71)	7	Yellow
AR-0312				50	38 (17.2)				
AR-0113		0.290 - 0.308	7.37 - 7.82	50	30 (13.6)	[S] 42 (1.07) [D] 54 (1.37)	0.146 (3.71)	8	Purple
AR-0313				50	38 (17.2)				
AR-0114		0.309 - 0.326	7.85 - 8.28	50	32 (14.5)	[S] 44 (1.04) [D] 56 (1.42)	0.136 (3.45)	9	Red
AR-0314				50	40 (18.1)				
AR-0115		0.327 - 0.346	8.29 - 8.79	50	38 (17.2)	[S] 46 (1.17) [D] 58 (1.47)	0.146 (3.71)	9	Blue
AR-0315				50	46 (20.9)				
AR-0116		0.347 - 0.366	8.80 - 9.30	50	40 (18.1)	[S] 48 (1.22) [D] 60 (1.52)	0.146 (3.71)	9	Green
AR-0316				50	49 (22.2)				
AR-0117		0.367 - 0.389	9.31 - 9.88	50	45 (20.4)	[S] 50 (1.27) [D] 62 (1.57)	0.146 (3.71)	10	Black
AR-0317				50	55 (24.9)				

Right-hand lay standard

NOTES: Single Support Length [S] and Double Support Length [D] are described in Components section.

Reference O.D. calculations for: Applied O.D. calculations.

AWAC is a registered trademark of the Copperweld Co.

Aluminum

For use on ACSR, Compacted ACSR, Aluminum Alloy All-Aluminum, AWAC Compacted All-Aluminum, ACAR, ACSS (AW & TW)

Catalog Number	EHV Armor Rod Catalog Number	Diameter Range		Units	Weight	Length	Rod Diameter	Rods per Set	Color Code
					lb (kg)				
		in	mm	Per Carton		in (m)	in (mm)		
AR-0118		0.390 - 0.413	9.89 - 10.49	50	55 (24.9)	[S] 52 (1.32) [D] 64 (1.63)	0.167 (4.24)	9	Yellow
AR-0318				50	67 (30.4)				
AR-0119		0.414 - 0.436	10.50 - 11.07	50	48 (21.8)	[S] 52 (1.32) [D] 64 (1.63)	0.146 (3.71)	10	Brown
AR-0319				50	58 (26.3)				
AR-0120		0.437 - 0.463	11.08 - 11.76	50	64 (29.0)	[S] 54 (1.37) [D] 66 (1.68)	0.167 (4.24)	10	Blue
AR-0320				50	76 (34.5)				
AR-0121		0.464 - 0.490	11.77 - 12.45	50	64 (29.0)	[S] 54 (1.37) [D] 66 (1.68)	0.167 (4.24)	10	Green
AR-0321				50	76 (34.5)				
AR-0122		0.491 - 0.521	12.46 - 13.23	25	37 (16.8)	[S] 56 (1.42) [D] 68 (1.73)	0.167 (4.24)	11	Orange
AR-0322				25	46 (20.9)				
AR-0123		0.522 - 0.551	13.24 - 14.00	25	38 (17.2)	[S] 58 (1.47) [D] 70 (1.78)	0.167 (4.24)	11	Black
AR-0323				25	46 (20.9)				
AR-0124		0.552 - 0.585	14.01 - 14.86	25	46 (20.9)	[S] 60 (1.52) [D] 72 (1.83)	0.182 (4.62)	11	Red
AR-0324				25	55 (24.9)				
AR-0125		0.586 - 0.606	14.87 - 15.39	25	52 (53.6)	[S] 62 (1.57) [D] 74 (1.88)	0.182 (4.62)	12	Black
AR-0325				25	61 (27.7)				
AR-0126		0.607 - 0.630	15.40 - 16.00	25	54 (24.5)	[S] 64 (1.63) [D] 76 (1.93)	0.182 (4.62)	12	Purple
AR-0326				25	63 (28.6)				
AR-0127		0.631 - 0.655	16.01 - 16.64	25	54 (24.5)	[S] 64 (1.63) [D] 76 (1.93)	0.182 (4.62)	12	Yellow
AR-0327				25	63 (28.6)				
AR-0128		0.656 - 0.679	16.65 - 17.25	18	43 (19.5)	[S] 66 (1.68) [D] 78 (1.98)	0.182 (4.62)	13	Brown
AR-0328				18	51 (23.1)				
AR-0129		0.680 - 0.703	17.26 - 17.86	18	52 (23.6)	[S] 68 (1.73) [D] 80 (2.03)	0.204 (5.18)	12	Blue
AR-0329				18	60 (27.2)				

Right-hand lay standard

NOTES: Single Support Length [S] and Double Support Length [D] are described in Components section.
Reference O.D. calculations for: Applied O.D. calculations.
AWAC is a registered trademark of the Copperweld Co.



Aluminum

For use on ACSR, Compacted ACSR, Aluminum Alloy All-Aluminum, AWAC Compacted All-Aluminum, ACAR, ACSS (AW & TW)

Catalog Number	EHV Armor Rod Catalog Number	Diameter Range		Units	Weight	Length	Rod Diameter	Rods per Set	Color Code
		in	mm		lb (kg)				
AR-0130		0.704 - 0.740	17.87 - 18.80	18	54 (24.5)	[S] 72 (1.83) [D] 84 (2.13)	0.204 (5.18)	12	Green
AR-0342				18	64 (29.0)				
AR-0131		0.741 - 0.782	18.1 - 19.86	18	59 (26.8)	72 (1.83)	0.204 (5.18)	13	Orange
AR-0132		0.783 - 0.814	19.87 - 20.68	15	66 (29.9)	76 (1.93)	0.250 (6.35)	11	Purple
AR-0133		0.815 - 0.845	20.69 - 21.46	15	66 (29.9)	76 (1.93)	0.250 (6.35)	11	Red
AR-0134		0.846 - 0.907	21.47 - 23.04	15	74 (33.6)	78 (1.98)	0.250 (6.35)	12	Blue
AR-0135		0.908 - 0.929	23.05 - 23.60	12	66 (29.9)	80 (2.03)	0.250 (6.35)	13	Green
AR-0136		0.930 - 0.976	23.61 - 24.79	12	72 (32.7)	88 (2.24)	0.250 (6.35)	13	White
AR-0137	AR-0500	0.977 - 1.016	24.80 - 25.81	9	50 (22.7)	92 (2.34)	0.310 (7.87)	11	Yellow
AR-0138	AR-0501	1.017 - 1.035	25.82 - 26.29	6	55 (24.9)	94 (2.39)	0.310 (7.87)	12	Brown
AR-0139	AR-0502	1.036 - 1.064	26.30 - 27.03	6	56 (25.4)	96 (2.44)	0.310 (7.87)	12	Blue
AR-0140	AR-0503	1.065 - 1.098	27.04 - 27.89	6	56 (25.4)	96 (2.44)	0.310 (7.87)	12	Green
AR-0141	AR-0504	1.099 - 1.139	27.90 - 28.93	6	62 (28.1)	100 (2.54)	0.310 (7.87)	13	Orange
AR-0142	AR-0505	1.140 - 1.161	28.94 - 29.49	6	63 (28.6)	100 (2.54)	0.310 (7.87)	13	Purple
AR-0143	AR-0506	1.162 - 1.208	29.50 - 30.68	6	69 (31.3)	100 (2.54)	0.310 (7.87)	13	Red
AR-0144	AR-0507	1.209 - 1.269	30.69 - 32.23	6	81 (36.7)	100 (2.54)	0.365 (9.27)	12	Black
AR-0145	AR-0508	1.270 - 1.327	32.24 - 33.71	6	81 (36.7)	100 (2.54)	0.365 (9.27)	12	White
AR-0146	AR-0509	1.328 - 1.390	33.72 - 35.31	3	45 (20.4)	100 (2.54)	0.365 (9.27)	13	Yellow
AR-1047	AR-0510	1.391 - 1.440	35.32 - 36.58	3	54 (24.5)	100 (2.54)	0.436 (11.07)	11	Brown
AR-0163	AR-0511	1.441 - 1.508	36.59 - 38.30	3	58 (26.3)	100 (2.54)	0.436 (11.07)	12	Blue
AR-0164	AR-0512	1.509 - 1.578	38.31 - 40.08	3	58 (26.3)	100 (2.54)	0.436 (11.07)	12	Green
AR-0165	AR-0513	1.579 - 1.651	40.09 - 41.64	3	60 (27.2)	100 (2.54)	0.436 (11.07)	13	Orange

Right-hand lay standard

NOTES: Single Support Length [S] and Double Support Length [D] are described in Components section.

Reference O.D. calculations for: Applied O.D. calculations.

AWAC is a registered trademark of the Copperweld Co.

Aluminum

For use on ACSR, Compacted ACSR, Aluminum Alloy All-Aluminum, AWAC Compacted All-Aluminum, ACAR, ACSS (AW & TW)

Catalog Number	EHV Armor Rod Catalog Number	Diameter Range		Units	Weight	Length	Rod Diameter	Rods per Set	Color Code
					lb (kg)				
		in	mm		Per Carton	in (m)	in (mm)		
AR-0166	AR-0514	1.652 - 1.728	41.65 - 43.89	3	60 (27.2)	100 (2.54)	0.436 (11.07)	13	Purple
AR-0167	AR-0516	1.729 - 1.809	43.90 - 45.95	3	64 (29.0)	100 (2.54)	0.436 (11.07)	14	Red
AR-0168	AR-0517	1.810 - 1.898	45.96 - 48.21	3	64 (29.0)	100 (2.54)	0.436 (11.07)	14	Black
AR-0169	AR-0518	1.899 - 1.991	48.22 - 50.57	3	68 (30.8)	100 (2.54)	0.436 (11.07)	15	White
AR-0170	AR-0519	1.992 - 2.090	50.58 - 53.09	3	68 (30.8)	100 (2.54)	0.436 (11.07)	15	Yellow
AR-0171	AR-0520	2.091 - 2.193	53.10 - 55.70	3	80 (36.3)	100 (2.54)	0.468 (11.89)	15	Brown



Aluminum-Clad Steel

For use on Aluminum-Clad Steel Strands

Catalog Number	Diameter Range		Units	Weight	Length	Rod Diameter	Rods per Set	Color Code
				lb (kg)				
	in	mm	Per Carton		in (m)	in (mm)		
AR-2113	0.169 - 0.178	4.29 - 4.52	50	32 (14.5)	[S] 40 (1.02) [D] 52 (1.32)	0.102 (2.59)	7	Orange
AR-2331			50	40 (18.1)				
AR-2116	0.196 - 0.207	4.98 - 5.56	50	32 (14.5)	[S] 40 (1.02) [D] 52 (1.32)	0.102 (2.59)	7	Black
AR-2313			50	40 (18.1)				
AR-2118	0.218 - 0.225	5.54 - 5.72	50	36 (16.3)	[S] 40 (1.02) [D] 52 (1.32)	0.102 (2.59)	8	Green
AR-2318			50	46 (20.9)				
AR-2120	0.237 - 0.249	6.02 - 6.32	50	40 (18.1)	[S] 40 (1.02) [D] 52 (1.32)	0.102 (2.59)	9	Yellow
AR-2320			50	51 (23.1)				
AR-2122	0.264 - 0.277	6.71 - 7.04	25	28 (12.7)	[S] 42 (1.07) [D] 54 (1.37)	0.114 (2.90)	9	Blue
AR-2322			25	35 (15.9)				
AR-2124	0.296 - 0.314	7.52 - 7.98	25	30 (13.6)	[S] 46 (1.17) [D] 58 (1.47)	0.114 (2.90)	9	Black
AR-2324			25	37 (16.8)				
AR-2126	0.334 - 0.352	8.48 - 8.94	25	35 (15.9)	[S] 50 (1.27) [D] 62 (1.57)	0.114 (2.90)	10	Yellow
AR-2326			25	44 (20.0)				
AR-2128	0.373 - 0.392	9.47 - 9.96	25	44 (20.0)	[S] 50 (1.27) [D] 62 (1.57)	0.128 (3.25)	10	Orange
AR-2328			25	54 (25.0)				
AR-2130	0.409 - 0.425	10.39 - 10.80	25	51 (23.1)	[S] 54 (1.37) [D] 66 (1.68)	0.128 (3.25)	11	Black
AR-2330			25	62 (28.1)				
AR-2131	0.426 - 0.452	10.81 - 11.43	25	58 (26.3)	[S] 56 (1.42) [D] 68 (1.73)	0.128 (3.25)	12	Green
AR-2331			25	70 (31.8)				
AR-2133	0.477 - 0.504	12.12 - 12.80	20	54 (25.0)	[S] 56 (1.42) [D] 68 (1.73)	0.144 (3.66)	11	Blue
AR-2333			20	65 (29.5)				

Left-hand lay standard

NOTES: Single Support Length [S] and Double Support Length [D] are described in Components section.
Reference O.D. calculations for: Applied O.D. calculations.

Aluminum-Clad Steel

For use on Aluminum-Clad Steel Strands

Catalog Number	Diameter Range		Units	Weight	Length	Rod Diameter	Rods per Set	Color Code
				lb (kg)				
	in	mm	Per Carton		in (m)	in (mm)		
AR-2135	0.535 - 0.565	13.59 - 14.35	10	40 (18.1)	[S] 60 (1.52) [D] 72 (1.83)	0.162 (4.11)	12	Yellow
AR-2335			10	48 (21.8)				
AR-2137	0.593 - 0.625	15.06 - 15.88	10	46 (20.9)	[S] 60 (1.52) [D] 72 (1.83)	1.83 (46.48)	11	Black
AR-2337			10	56 (25.4)				

Left-hand lay standard

NOTES: Single Support Length [S] and Double Support Length [D] are described in Components section.
Reference O.D. calculations for: Applied O.D. calculations.



Copperweld

For use on Copperweld Strand, Copper, Copperweld/Copper Composite

Catalog Number	Diameter Range		Units	Weight	Length	Rod Diameter	Rods per Set	Color Code
				lb (kg)				
	in	mm	Per Carton		in (m)	in (mm)		
AR-5100	0.160 - 0.168	4.06 - 4.27	50	35 (15.9)	[S] 38 (0.97) [D] 50 (1.27)	0.102 (2.59)	7	Green
AR-5300			50	46 (20.9)				
AR-5101	0.169 - 0.178	4.28 - 4.52	50	37 (16.8)	[S] 40 (1.02) [D] 52 (1.32)	0.102 (2.59)	7	Red
AR-5301			50	48 (21.8)				
AR-5102	0.179 - 0.188	4.53 - 4.78	50	56 (25.4)	[S] 40 (1.02) [D] 52 (1.32)	0.102 (2.59)	7	Black
AR-5302			50	72 (32.7)				
AR-5104	0.196 - 0.207	4.98 - 5.26	50	56 (25.4)	[S] 40 (1.02) [D] 52 (1.32)	0.102 (2.59)	7	Gray
AR-5304			50	72 (32.7)				
AR-5106	0.218 - 0.225	5.54 - 5.72	50	44 (20.0)	[S] 40 (1.02) [D] 52 (1.32)	0.102 (2.59)	8	Red
AR-5306			50	56 (25.4)				
AR-5107	0.226 - 0.236	5.73 - 5.99	50	44 (20.0)	[S] 40 (1.02) [D] 52 (1.32)	0.102 (2.59)	8	Black
AR-5307			50	56 (25.4)				
AR-5108	0.237 - 0.249	6.00 - 6.32	50	49 (22.2)	[S] 42 (1.07) [D] 54 (1.37)	0.102 (2.59)	9	Blue
AR-5308			50	64 (29.0)				
AR-5109	0.250 - 0.263	6.33 - 6.68	50	50 (22.7)	[S] 42 (1.07) [D] 54 (1.37)	0.102 (2.59)	9	Gray
AR-5309			50	64 (29.0)				
AR-5110	0.264 - 0.277	6.69 - 7.04	50	57 (25.9)	[S] 42 (1.07) [D] 54 (1.37)	0.102 (2.59)	9	Green
AR-5310			50	65 (29.5)				
AR-5111	0.278 - 0.295	7.05 - 7.49	50	56 (25.4)	[S] 42 (1.07) [D] 54 (1.37)	0.102 (2.59)	10	Red
AR-5311			50	72 (32.7)				
AR-5112	0.296 - 0.314	7.50 - 7.98	25	35 (15.9)	[S] 44 (1.12) [D] 56 (1.42)	0.114 (2.90)	9	Black
AR-5312			25	44 (20.0)				
AR-5113	0.315 - 0.333	7.99 - 8.46	25	44 (20.0)	[S] 46 (1.17) [D] 58 (1.47)	0.128 (3.25)	9	Blue
AR-5313			25	55 (24.9)				

Left-hand lay standard

NOTES: Single Support Length [S] and Double Support Length [D] are described in Components section.
Reference O.D. calculations for: Applied O.D. calculations.
Copperweld is a registered trademark of the Copperweld Co.

Copperweld

For use on Copperweld Strand, Copper, Copperweld/Copper Composite

Catalog Number	Diameter Range		Units	Weight	Length	Rod Diameter	Rods per Set	Color Code
				lb (kg)				
	in	mm	Per Carton		in (m)	in (mm)		
AR-5114	0.334 - 0.352	8.47 - 8.94	25	46 (20.9)	[S] 48 (1.22) [D] 60 (1.52)	0.128 (3.25)	9	Gray
AR-5314			25	58 (26.3)				
AR-5115	0.353 - 0.372	8.95 - 9.45	25	54 (24.5)	[S] 50 (1.27) [D] 62 (1.57)	0.128 (3.25)	10	Green
AR-5315			25	66 (29.9)				
AR-5116	0.373 - 0.392	9.46 - 9.96	25	62 (28.1)	[S] 52 (1.32) [D] 64 (1.63)	0.144 (3.66)	9	Red
AR-5316			25	76 (34.5)				
AR-5118	0.409 - 0.425	10.39 - 10.80	15	44 (20.0)	[S] 54 (1.37) [D] 66 (1.68)	0.144 (3.66)	10	Blue
AR-5318			15	54 (24.5)				
AR-5119	0.426 - 0.450	10.81 - 11.43	15	55 (24.9)	[S] 54 (1.37) [D] 66 (1.68)	0.162 (4.11)	10	Gray
AR-5319			15	66 (29.9)				
AR-5120	0.451 - 0.476	11.44 - 12.09	15	57 (25.9)	[S] 56 (1.42) [D] 68 (1.73)	0.162 (4.11)	10	Green
AR-5320			15	69 (31.3)				
AR-5121	0.477 - 0.504	12.10 - 12.80	15	62 (28.1)	[S] 56 (1.42) [D] 68 (1.73)	0.162 (4.11)	11	Red
AR-5321			15	75 (34.0)				
AR-5122	0.505 - 0.534	12.81 - 13.56	15	64 (29.0)	[S] 58 (1.47) [D] 70 (1.78)	0.162 (4.11)	11	Black
AR-5322			15	78 (35.4)				
AR-5123	0.535 - 0.565	13.57 - 14.35	10	48 (21.8)	[S] 58 (1.47) [D] 70 (1.78)	0.162 (4.11)	12	Blue
AR-5323			10	58 (26.3)				
AR-5124	0.566 - 0.592	14.36 - 15.04	10	49 (22.2)	[S] 60 (1.52) [D] 72 (1.83)	0.162 (4.11)	12	Gray
AR-5324			10	59 (26.8)				
AR-5125	0.593 - 0.625	15.05 - 15.88	10	53 (24.0)	[S] 60 (1.52) [D] 72 (1.83)	0.162 (4.11)	13	Green
AR-5325			10	63 (28.6)				

Left-hand lay standard

NOTES:

Single Support Length [S] and Double Support Length [D] are described in Components section.

Reference O.D. calculations for: Applied O.D. calculations.

Copperweld is a registered trademark of the Copperweld Co.



Phosphor Bronze

For use on Copper, Copperweld/Copper Composite

Catalog Number	Diameter Range		Units	Weight	Length	Rod Diameter	Rods per Set	Color Code
				lb (kg)				
	in	mm	Per Carton		in (m)	in (mm)		
ARB-1103	0.160 - 0.168	4.06 - 4.27	75	54 (24.5)	[S] 38 (0.97) [D] 50 (1.27)	0.099 (2.51)	7	Green
ARB-1303			75	70 (31.8)				
ARB-1104	0.169 - 0.178	4.28 - 4.52	75	56 (25.4)	[S] 40 (1.02) [D] 52 (1.32)	0.099 (2.51)	7	Red
ARB-1304			75	72 (32.7)				
ARB-1105	0.179 - 0.188	4.53 - 4.78	75	56 (25.4)	[S] 40 (1.02) [D] 52 (1.32)	0.099 (2.51)	7	Black
ARB-1305			75	72 (32.7)				
ARB-1107	0.196 - 0.207	4.98 - 5.26	50	44 (22.0)	[S] 40 (1.02) [D] 52 (1.32)	0.099 (2.51)	8	Gray
ARB-1307			50	56 (25.4)				
ARB-1109	0.218 - 0.225	5.54 - 5.72	50	44 (22.0)	[S] 40 (1.02) [D] 52 (1.32)	0.099 (2.51)	8	Red
ARB-1309			50	56 (25.4)				
ARB-1110	0.226 - 0.236	5.73 - 5.99	50	44 (20.0)	[S] 40 (1.02) [D] 52 (1.32)	0.099 (2.51)	8	Black
ARB-1310			50	56 (25.4)				
ARB-1111	0.237 - 0.249	6.02 - 6.32	50	52 (23.6)	[S] 42 (1.07) [D] 54 (1.37)	0.099 (2.51)	9	Blue
ARB-1311			50	65 (29.5)				
ARB-1112	0.250 - 0.263	6.33 - 6.68	50	52 (23.6)	[S] 42 (1.07) [D] 54 (1.37)	0.099 (2.51)	9	Gray
ARB-1312			50	65 (29.5)				
ARB-1113	0.264 - 0.277	6.69 - 7.04	50	52 (23.6)	[S] 42 (1.07) [D] 54 (1.37)	0.099 (2.51)	9	Green
ARB-1313			50	65 (29.5)				
ARB-1114	0.278 - 0.295	7.05 - 7.49	50	56 (25.4)	[S] 42 (1.07) [D] 54 (1.37)	0.099 (2.51)	10	Red
ARB-1314			50	72 (32.7)				
ARB-1115	0.296 - 0.314	7.50 - 7.98	50	68 (30.8)	[S] 44 (1.12) [D] 56 (1.42)	0.111 (2.82)	9	Black
ARB-1315			50	86 (39.0)				

Left-hand lay standard

NOTE: Single Support Length [S] and Double Support Length [D] are described in Components section.

Reference O.D. calculations for: Applied O.D. calculations.

Copperweld is a registered trademark of the Copperweld Co.

Galvanized Steel

For use on Galvanized Steel with Right-Hand Lay

Catalog Number	Diameter Range		Units	Weight	Length	Rod Diameter	Rods per Set	Color Code
				lb (kg)				
	in	mm	Per Carton		in (m)	in (mm)		
AR-1154	0.244 - 0.259	6.20 - 6.58	50	38 (17.2)	[S] 40 (1.02) [D] 52 (1.32)	0.070 (1.78)	12	Orange
AR-1354			50	48 (21.8)				
AR-1158	0.309 - 0.326	7.85 - 8.28	50	60 (27.2)	[S] 44 (1.12) [D] 56 (1.46)	0.086 (2.18)	12	Red
AR-1358			50	75 (34.0)				
AR-1160	0.347 - 0.373	8.81 - 9.47	50	70 (31.8)	[S] 48 (1.22) [D] 60 (1.52)	0.086 (2.18)	13	Black
AR-1360			50	88 (39.9)				
AR-1162	0.390 - 0.413	9.91 - 10.49	25	50 (22.7)	[S] 52 (1.32) [D] 64 (1.63)	0.100 (2.54)	13	Yellow
AR-1362			25	62 (28.1)				
AR-1164	0.437 - 0.463	11.10 - 11.76	25	70 (31.8)	[S] 54 (1.37) [D] 66 (1.68)	0.119 (3.02)	12	Blue
AR-1364			25	84 (38.1)				
AR-1166	0.491 - 0.521	12.47 - 13.23	20	62 (28.1)	[S] 56 (1.42) [D] 68 (1.73)	0.119 (3.02)	13	Orange
AR-1366			20	75 (34.0)				
AR-1168	0.552 - 0.585	14.02 - 14.86	15	66 (29.9)	[S] 60 (1.52) [D] 72 (1.83)	0.138 (3.51)	13	Red
AR-1368			15	80 (36.3)				

Right-hand lay standard

Galvanized Steel

For use on Galvanized Steel with Left-Hand Lay

Catalog Number	Diameter Range		Units	Weight	Length	Rod Diameter	Rods per Set	Color Code
				lb (kg)				
	in	mm	Per Carton		in (m)	in (mm)		
AR-1123	0.229 - 0.243	5.52 - 6.17	50	37 (16.8)	40 (1.02)	0.086 (2.18)	10	Black
AR-1124	0.244 - 0.259	6.18 - 6.58	50	37 (16.8)	40 (1.02)	0.086 (2.18)	10	Yellow
AR-1128	0.309 - 0.326	7.85 - 8.28	50	60 (27.2)	44 (1.12)	0.100 (2.54)	11	Black
AR-1130	0.347 - 0.373	8.81 - 9.47	50	70 (31.8)	48 (1.22)	0.100 (2.54)	12	Orange
AR-1133	0.414 - 0.436	10.52 - 11.07	20	52 (23.6)	52 (1.32)	0.119 (3.02)	12	Green
AR-3139	0.491 - 0.521	12.47 - 13.23	20	62 (28.1)	56 (1.42)	0.138 (3.51)	12	Blue

Left-hand lay standard

NOTE: Single Support Length [S] and Double Support Length [D] are described in Components section. Reference O.D. calculations for: Applied O.D. calculations.



Copperweld

For use on Copperweld Strand, Copper, Copperweld/Copper Composite

Catalog Number	Diameter Range		Units	Weight	Length	Rod Diameter	Rods per Set	Color Code
				lb (kg)				
	in	mm	Per Carton		in (m)	in (mm)		
AR-5100	0.160 - 0.168	4.06 - 4.27	50	35 (15.9)	[S] 38 (0.97) [D] 50 (1.27)	0.102 (2.59)	7	Green
AR-5300			50	46 (20.9)				
AR-5101	0.169 - 0.178	4.28 - 4.52	50	37 (16.8)	[S] 40 (1.02) [D] 52 (1.32)	0.102 (2.59)	7	Red
AR-5301			50	48 (21.8)				
AR-5102	0.179 - 0.188	4.53 - 4.78	50	56 (25.4)	[S] 40 (1.02) [D] 52 (1.32)	0.102 (2.59)	7	Black
AR-5302			50	72 (32.7)				
AR-5104	0.196 - 0.207	4.98 - 5.26	50	56 (25.4)	[S] 40 (1.02) [D] 52 (1.32)	0.102 (2.59)	7	Gray
AR-5304			50	72 (32.7)				
AR-5106	0.218 - 0.225	5.54 - 5.72	50	44 (20.0)	[S] 40 (1.02) [D] 52 (1.32)	0.102 (2.59)	8	Red
AR-5306			50	56 (25.4)				
AR-5107	0.226 - 0.236	5.73 - 5.99	50	44 (20.0)	[S] 40 (1.02) [D] 52 (1.32)	0.102 (2.59)	8	Black
AR-5307			50	56 (25.4)				
AR-5108	0.237 - 0.249	6.00 - 6.32	50	49 (22.2)	[S] 42 (1.07) [D] 54 (1.37)	0.102 (2.59)	9	Blue
AR-5308			50	64 (29.0)				
AR-5109	0.250 - 0.263	6.33 - 6.68	50	50 (22.7)	[S] 42 (1.07) [D] 54 (1.37)	0.102 (2.59)	9	Gray
AR-5309			50	64 (29.0)				
AR-5110	0.264 - 0.277	6.69 - 7.04	50	57 (25.9)	[S] 42 (1.07) [D] 54 (1.37)	0.102 (2.59)	9	Green
AR-5310			50	65 (29.5)				
AR-5111	0.278 - 0.295	7.05 - 7.49	50	56 (25.4)	[S] 42 (1.07) [D] 54 (1.37)	0.102 (2.59)	10	Red
AR-5311			50	72 (32.7)				
AR-5112	0.296 - 0.314	7.50 - 7.98	25	35 (15.9)	[S] 44 (1.12) [D] 56 (1.42)	0.114 (2.90)	9	Black
AR-5312			25	44 (20.0)				
AR-5113	0.315 - 0.333	7.99 - 8.46	25	44 (20.0)	[S] 46 (1.17) [D] 58 (1.47)	0.128 (3.25)	9	Blue
AR-5313			25	55 (24.9)				

Left-hand lay standard

NOTES: Single Support Length [S] and Double Support Length [D] are described in Components section.
Reference O.D. calculations for: Applied O.D. calculations.
Copperweld is a registered trademark of the Copperweld Co.

Copperweld

For use on Copperweld Strand, Copper, Copperweld/Copper Composite

Catalog Number	Diameter Range		Units	Weight	Length	Rod Diameter	Rods per Set	Color Code
				lb (kg)				
	in	mm	Per Carton		in (m)	in (mm)		
AR-5114	0.334 - 0.352	8.47 - 8.94	25	46 (20.9)	[S] 48 (1.22) [D] 60 (1.52)	0.128 (3.25)	9	Gray
AR-5314			25	58 (26.3)				
AR-5115	0.353 - 0.372	8.95 - 9.45	25	54 (24.5)	[S] 50 (1.27) [D] 62 (1.57)	0.128 (3.25)	10	Green
AR-5315			25	66 (29.9)				
AR-5116	0.373 - 0.392	9.46 - 9.96	25	62 (28.1)	[S] 52 (1.32) [D] 64 (1.63)	0.144 (3.66)	9	Red
AR-5316			25	76 (34.5)				
AR-5118	0.409 - 0.425	10.39 - 10.80	15	44 (20.0)	[S] 54 (1.37) [D] 66 (1.68)	0.144 (3.66)	10	Blue
AR-5318			15	54 (24.5)				
AR-5119	0.426 - 0.450	10.81 - 11.43	15	55 (24.9)	[S] 54 (1.37) [D] 66 (1.68)	0.162 (4.11)	10	Gray
AR-5319			15	66 (29.9)				
AR-5120	0.451 - 0.476	11.44 - 12.09	15	57 (25.9)	[S] 56 (1.42) [D] 68 (1.73)	0.162 (4.11)	10	Green
AR-5320			15	69 (31.3)				
AR-5121	0.477 - 0.504	12.10 - 12.80	15	62 (28.1)	[S] 56 (1.42) [D] 68 (1.73)	0.162 (4.11)	11	Red
AR-5321			15	75 (34.0)				
AR-5122	0.505 - 0.534	12.81 - 13.56	15	64 (29.0)	[S] 58 (1.47) [D] 70 (1.78)	0.162 (4.11)	11	Black
AR-5322			15	78 (35.4)				
AR-5123	0.535 - 0.565	13.57 - 14.35	10	48 (21.8)	[S] 58 (1.47) [D] 70 (1.78)	0.162 (4.11)	12	Blue
AR-5323			10	58 (26.3)				
AR-5124	0.566 - 0.592	14.36 - 15.04	10	49 (22.2)	[S] 60 (1.52) [D] 72 (1.83)	0.162 (4.11)	12	Gray
AR-5324			10	59 (26.8)				
AR-5125	0.593 - 0.625	15.05 - 15.88	10	53 (24.0)	[S] 60 (1.52) [D] 72 (1.83)	0.162 (4.11)	13	Green
AR-5325			10	63 (28.6)				

Left-hand lay standard

NOTES:

Single Support Length [S] and Double Support Length [D] are described in Components section.

Reference O.D. calculations for: Applied O.D. calculations.

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