

Triplex XLPE Service Drop. Reduced ACSR Neutral - Messenger

Aluminum Conductors With Crosslinked Polyethylene Insulation.

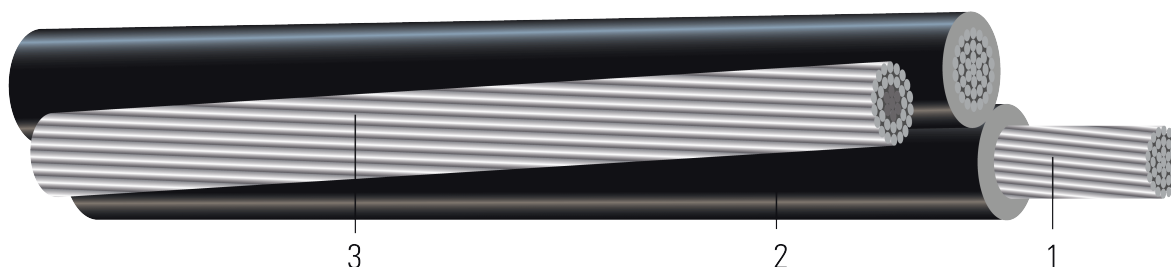


Image not to scale. See Table 1 for dimensions.

CONSTRUCTION:

1. **Conductor:** Conductors are stranded, compressed 1350-H19 aluminum
2. **Insulation:** Cross Linked Polyethylene (XLPE)
3. **Messenger:** ACSR Neutral

SPECIFICATIONS:

- ASTM B230 Aluminum, 1350-H19 Wire for Electrical Purposes
- ASTM B231 Standard Specification for Concentric-Lay-Stranded Aluminum 1350 Conductors
- ASTM B400 Standard Specification for Compact Round Concentric-Lay-Stranded, Aluminum 1350 Conductors
- ASTM B901 Standard Specification for Compressed Round Stranded Aluminum Conductors Using Single Input Wire Construction. (The number of strands for both phase and neutral may differ)
- ICEA S-76-474 Standard for Neutral-Supported Power Cable Assemblies with Weather-Resistant Extruded Insulation Rated 600V

Table 1 – Weights and Measurements

Stock Number	Code Word	Phase Cond. Size	Phase Strand	Dia. Over Phase Conductor	Phase Insul. Thickness	Dia. Over Phase Insulation	Neutral Cond. Size	Approx. OD	Approx. Weight
		AWG/Kcmil	No.	inch	mil	inch	AWG/Kcmil	inch	lb/1000ft
TBA	Scallop	4	1	0.204	45	0.294	6	0.636	142
104927	Strombus	4	7	0.225	45	0.315	6	0.68	151
104935	Cockle	2	7	0.283	45	0.373	4	0.806	228
104943	Janthina	1/0	9	0.352	60	0.472	2	1.02	366
104950	Ranella	1/0	7	0.357	60	0.477	2	1.03	360
104968	Cavolinia	2/0	11	0.395	60	0.515	1	1.112	453
104976	Clio	2/0	7	0.402	60	0.522	1	1.128	444
104984	Aega	3/0	17	0.443	60	0.563	1/0	1.216	549
102897!	Aega	3/0	17	0.443	60	0.563	1/0	1.216	547
104992	Cerapus	4/0	18	0.498	60	0.618	2/0	1.335	681
TBA	Cowry	336.4	19	0.645	80	0.805	4/0	1.739	1093

All dimensions are nominal and subject to normal manufacturing tolerances

1. The actual number of strands may differ for single input wire per ASTM B901

! Linear Low Density Polyethylene (LLDPE) instead of XLPE insulation



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Table 2 – Electrical and Engineering Data

Code Word	Phase Cond. Size	Neutral Rated Breaking Strength	DC Resistance @ 25°C	AC Resistance @ 75°C	Inductive Reactance @ 60Hz	GMR	Allowable Ampacity In Air 90°C
	AWG/Kcmil	lb	Ω/1000ft	Ω/1000ft	Ω/1000ft	ft	Amp
Scallop	4	1190	0.41	0.5258	0.0301	0.0066	115
Strombus	4	1190	0.4183	0.5363	0.031	0.0068	115
Cockle	2	1860	0.2631	0.3373	0.0296	0.0086	150
Janthina	1/0	2853	0.1653	0.212	0.0299	0.0107	205
Ranella	1/0	2853	0.1653	0.212	0.0299	0.0108	205
Cavolinia	2/0	3550	0.1312	0.1682	0.029	0.0121	235
Clio	2/0	3550	0.1312	0.1682	0.0293	0.0122	235
Aega	3/0	4380	0.104	0.1335	0.028	0.0139	275
Aega	3/0	4380	0.104	0.1335	0.028	0.0139	275
Cerapus	4/0	5310	0.0825	0.1059	0.0273	0.0157	315
Cowry	336.4	8350	0.0519	0.0667	0.0274	0.0204	420

Notes:

1. DC resistances include a 1% length factor for plexing.
2. Inductive reactance assumes the neutral is carrying current.
3. Phase conductors assumed to be reverse lay stranded, compressed construction.
4. Phase spacing assumes cables are touching.
5. Resistances shown are for the phase conductor only.
6. Ampacity based on conductor temperature of 90°; ambient temperature of 40°C; emissivity 0.9; 2 ft./sec. wind in sun.

Neutral Code Word

Size-Strands	Code Word	OD (inches)
#4	Swan	0.250
#2	Sparrow	0.316
1/0	Raven	0.398
2/0	Quail	0.447
3/0	Pigeon	0.502
4/0	Penguin	0.684
336.4	Merlin	0.563

