Triplex XLPE Service Drop. AAC Neutral - Messenger

Aluminum Conductors With Crosslinked Polyethylene Insulation.

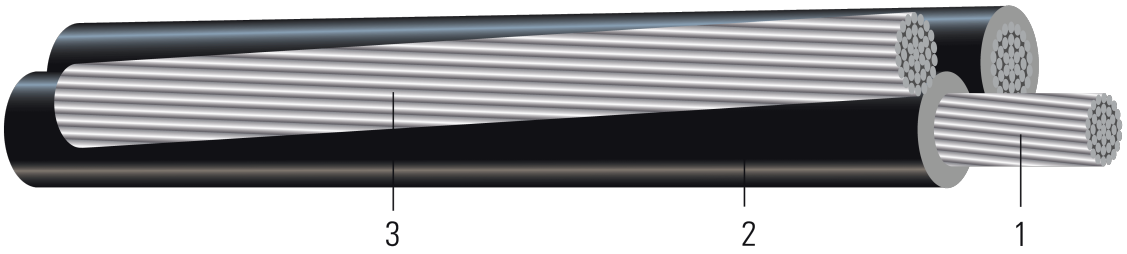

Image not to scale. See Table 1 for dimensions.

CONSTRUCTION:

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

APPLICATIONS AND FEATURES:

Used to supply power, usually from a pole-mounted transformer, to the user's service head where connection to the service entrance cable is made. To be used at voltages of 600 volts phase-to-phase or less and at conductor temperatures 90°C for crosslinked polyethylene (XLP) insulated conductors.

SPECIFICATIONS:

- ASTM B230 Aluminum, 1350-H19 Wire for Electrical Purposes
- ASTM B231 Standard Specification for 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

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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	Neutral Strand	Approx. OD	Approx. Weight
		AWG/ Kcmil	No.	inch	mil	inch	AWG/Kcmil	No.	inch	lb/1000ft
TBA	HAIOTIS	6	SOLID	0.162	45	0.252	6	7	0.544	89
104711	PATELLA	6	7	0.178	45	0.489	6	7	0.579	102
TBA	FUSUS	4	SOLID	0.204	45	0.294	4	7	0.635	134
104729	OYSTER	4	7	0.225	45	0.59	4	7	0.68	152
104737	CLAM	2	7	0.283	45	0.717	2	7	0.807	230
623542	MUSSEL	2	7	0.283	45	0.717	4	7	0.807	224
104752	PURPURA	1/0	9	0.362	60	0.9	1/0	7	1.02	369
104745	MUREX	1/0	7	0.362	60	0.911	1/0	7	1.031	370
104760	NASSA	2/0	7	0.405	60	1.006	2/0	7	1.126	457
TBA	TROPHON	2/0	19	0.405	60	0.525	2/0	7	1.134	415
104786	MELITA	3/0	17	0.456	60	1.096	3/0	19	1.216	559
104794	PORTUNUS	4/0	18	0.512	60	1.215	4/0	19	1.335	694
250407	NANNYNOSE	336.4	19	0.646	80	1.58	336.4	19	1.74	1115

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
TBA stock codes are estimations only and actual product may vary. Please wait until a stock code is assigned to purchase connectors and/or fittings.

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 75/90°C
	AWG/Kcmil	lb	Ω/1000ft	Ω/1000ft	Ω/1000ft	ft	Amp
HAIOTIS	6	563	0.411	0.512	0.051	0.067	75/85
PATELLA	6	563	0.674	0.84	0.051	0.067	75/85
FUSUS	4	881	0.258	0.321	0.048	0.084	100/115
OYSTER	4	881	0.424	0.528	0.048	0.084	100/115
CLAM	2	1350	0.266	0.331	0.045	0.105	135/150
MUSSEL	2	1350	0.266	0.331	0.045	0.105	135/150
PURPURA	1/0	1990	0.167	0.208	0.044	0.139	180/205
MUREX	1/0	1990	0.167	0.208	0.044	0.139	180/205
NASSA	2/0	2510	0.133	0.166	0.043	0.156	210/235
TROPHON	2/0	2510	0.133	0.166	0.043	0.156	210/235
MELITA	3/0	3310	0.105	0.131	0.042	0.175	240/270
PORTUNUS	4/0	4020	0.084	0.105	0.041	0.197	280/315
NANNYNOSE	336.4	6146	0.051	0.064	0.041	0.255	379/427

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. Sizes of AAAC neutrals are not the AAAC size, but are the size of an ACSR of equal diameter.
7. Ampacity based on conductor temperature of 90°; ambient temperature of 40°C; emissivity 0.9; 2 ft./sec. wind in sun.

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Neutral Code Word

Size-Strands	Code Word	OD (inches)
#6-7	Peachbell	0.184
#4-7	Rose	0..232
#2-7	Iris	0.292
1/0-7	Poppy	0.368
2/0-7	Aster	0.414
3/0-19	Primrose	0.470
4/0-19	Sunflower	0.528
336.4-19	Tulip	0.665

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