Triplex XLPE Service Drop. AAAC 6201 Alloy Neutral - Messenger

Aluminum Conductors With Crosslinked Polyethylene Insulation.

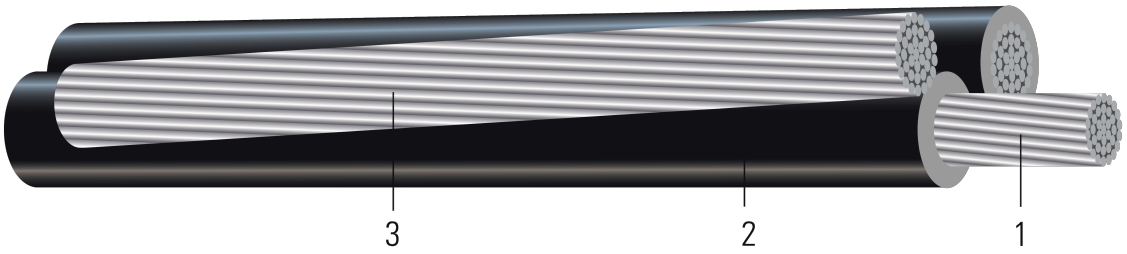


Image not to scale. See Table 1 for dimensions.

CONSTRUCTION:

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

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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	MINEX	6	SOLID	0.162	45	0.252	6	7	0.544	89
152645	HIPPA	6	7	0.178	45	0.489	6	7	0.579	106
TBA	PRAWN	4	SOLID	0.204	45	0.294	4	7	0.635	134
105080	BARNACLE	4	7	0.225	45	0.59	4	7	0.68	158
105098	SHRIMP	2	7	0.283	45	0.717	2	7	0.807	240
484828	LOBSTER	2	7	0.283	60	0.751	2	7	0.871	255
105114	LEDA	1/0	9	0.362	60	0.9	1/0	7	1.02	385
105106	GAMMARUS	1/0	7	0.362	60	0.91	1/0	7	1.03	386
105122	DUNGENESE	2/0	7	0.405	60	1.006	2/0	7	1.126	477
TBA	CYCLOPS	2/0	19	0.405	60	0.525	2/0	7	1.134	415
TBA	FLUSTRA	3/0	19	0.456	60	0.576	3/0	7	1.244	521
105130	LEPAS	4/0	18	0.512	60	1.215	4/0	7	1.335	726

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
MINEX	6	1110	0.411	0.512	0.051	0.067	75/85
HIPPA	6	1110	0.674	0.84	0.051	0.067	75/85
PRAWN	4	1760	0.258	0.321	0.048	0.084	100/115
BARNACLE	4		0.424	0.528	0.048	0.084	100/115
SHRIMP	2	2800	0.266	0.331	0.045	0.105	135/150
LOBSTER	2		0.266	0.331	0.045	0.105	135/150
LEDA	1/0	4270	0.167	0.208	0.044	0.139	180/205
GAMMARUS	1/0	4270	0.167	0.208	0.044	0.139	180/205
DUNGENESE	2/0	5390	0.133	0.166	0.043	0.156	210/235
CYCLOPS	2/0	5390	0.133	0.166	0.043	0.156	210/235
FLUSTRA	3/0	6790	0.105	0.131	0.042	0.175	240/270
LEPAS	4/0	8560	0.084	0.105	0.041	0.197	280/315

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	Akron	0.198
#4-7	Alton	0.250
#2-7	Ames	0.316
1/0-7	Azusa	0.398
2/0-7	Anaheim	0.447
3/0-7	Amherst	0.502
4/0-7	Alliance	0.563

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