Quadruplex XLPE Service Drop. ACSR Neutral - Messenger

Aluminum Conductors With Crosslinked Polyethylene Insulation.

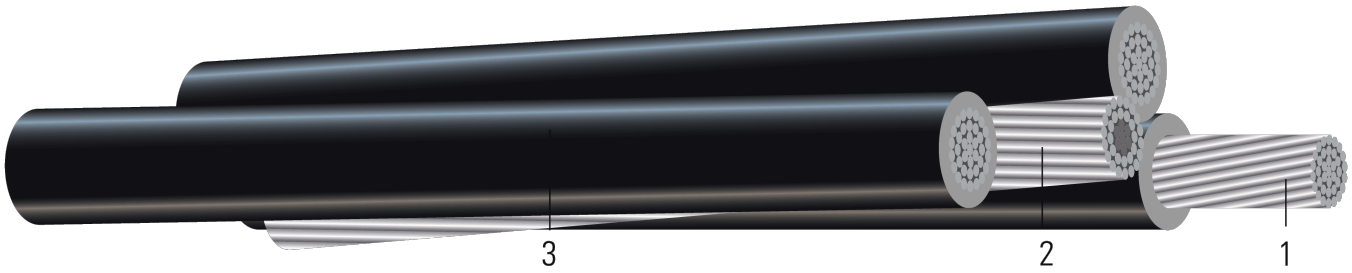


Image not to scale. See Table 1 for dimensions.

CONSTRUCTION:

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

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	MOROCHUCA	6	Solid	0.162	45	0.252	6	6/1	0.61	113
105262	CHOLA	6	7	0.178	45	0.557	6	6/1	0.647	152
TBA	MORGAN	4	Solid	0.204	45	0.294	4	6/1	0.711	172
105288	HACKNEY	4	7	0.225	45	0.67	4	6/1	0.76	227
105296	PALOMINO	2	7	0.283	45	0.811	2	6/1	0.901	343
105312	COSTENA	1/0	9	0.362	60	1.019	1/0	6/1	1.139	551
105320	GRULLO	2/0	11	0.405	60	1.123	2/0	6/1	1.243	678
105338	SUFFOLK	3/0	17	0.456	60	1.239	3/0	6/1	1.359	833
105346	APPALOOSA	4/0	18	0.512	60	1.372	4/0	6/1	1.492	1034
250902^	BRONCO	336.4	19	0.646	80	1.784	336.4	18/1	1.944	1563
237669	GELDING	336.4	19	0.646	80	1.784	4/0	6/1	1.944	1489

All dimensions are nominal and subject to normal manufacturing tolerances
^ Phase conductors have 0, 1, or 2 ribs for identification
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
MOROCHUCA	6	1860	0.411	0.512	0.051	0.067	85
CHOLA	6	1860	0.674	0.84	0.051	0.067	85
MORGAN	4	1860	0.258	0.321	0.048	0.084	115
HACKNEY	4	1860	0.424	0.528	0.048	0.084	115
PALOMINO	2	2850	0.266	0.331	0.045	0.105	150
COSTENA	1/0	4380	0.167	0.208	0.044	0.139	205
GRULLO	2/0	5310	0.133	0.166	0.043	0.156	235
SUFFOLK	3/0	6620	0.105	0.131	0.042	0.175	270
APPALOOSA	4/0	8350	0.084	0.105	0.041	0.197	315
BRONCO	336.4	6146	0.051	0.064	0.041	0.255	
GELDING	336.4	8350	0.051	0.064	0.041	0.255	

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.

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Neutral Code Word

Size	Code Word	OD (inches)
#6	Turkey	0.198
#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

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