



Quadruplex XLPE Service Drop. ACSR Neutral - Messenger

Aluminum Conductors With Crosslinked Polyethylene Insulation.

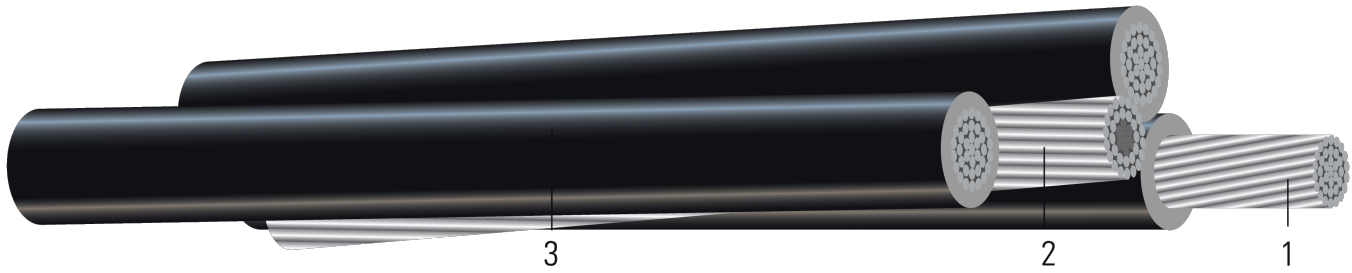


Image not to scale. See Table 1 for dimensions.

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



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	Morochouca	6	Solid	0.162	30	0.222	6	6/1	0.539	158
105262	Chola	6	7	0.177	30	0.237	6	6/1	0.647	151
TBA	Morgan	4	Solid	0.204	30	0.264	4	6/1	0.641	237
105288	Hackney	4	7	0.225	30	0.285	4	6/1	0.759	226
105296	Palomino	2	7	0.282	45	0.372	2	6/1	0.901	343
105312	Costena	1/0	9	0.361	60	0.481	1/0	6/1	1.139	550
105320	Grullo	2/0	11	0.405	60	0.525	2/0	6/1	1.243	677
105338	Suffolk	3/0	17	0.456	60	0.576	3/0	6/1	1.359	833
105346	Appaloosa	4/0	18	0.512	60	0.632	4/0	6/1	1.491	432
250902^	Bronco	336.4	19	0.646	60	0.766	336.4	18/1	1.944	1562
237669	Gelding	336.4	19	0.646	60	0.766	4/0	6/1	1.944	1488

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

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
Morochouca	6	1860	0.411	0.495	0.051	0.005	75 / 85
Chola	6	1860	0.674	0.812	0.051	0.005	75 / 85
Morgan	4	1860	0.258	0.310	0.048	0.007	100 / 115
Hackney	4	1860	0.424	0.511	0.048	0.007	100 / 115
Palomino	2	2850	0.266	0.320	0.045	0.008	135 / 150
Costena	1/0	4380	0.167	0.201	0.044	0.011	180 / 205
Grullo	2/0	5310	0.133	0.159	0.043	0.013	210 / 235
Suffolk	3/0	6620	0.105	0.126	0.042	0.014	240 / 270
Appaloosa	4/0	8350	0.084	0.100	0.041	0.016	280 / 315
Bronco	336.4	6146	0.051	0.062	0.041	0.021	316 / 357
Gelding	336.4	8350	0.051	0.062	0.041	0.021	316 / 357

Notes:

- DC resistances include a 1% length factor for plexing.
- Inductive reactance assumes the neutral is carrying current.
- Phase conductors assumed to be reverse lay stranded, compressed construction.
- Phase spacing assumes cables are touching.
- Resistances shown are for the phase conductor only.
- 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	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

