NS75 CSA Triplex LLDPE Service Drop. ACSR Neutral - Messenger

Aluminum Conductors With Linear Low Density Polyethylene Insulation.

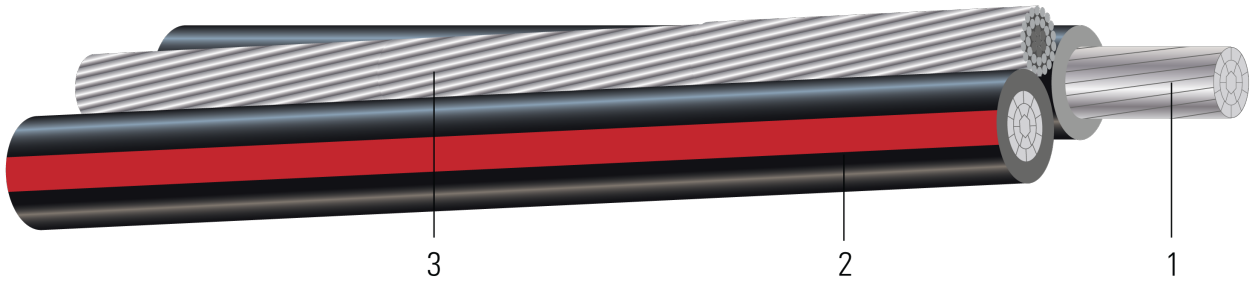

Image not to scale. See Table 1 for dimensions.

CONSTRUCTION:

1. **Conductor:** Conductors are stranded, compact 1350-H19 aluminum
2. **Insulation:** Linear Low Density Polyethylene (LLDPE)
3. **Messenger:** ACSR Neutral

APPLICATIONS AND FEATURES:

Primarily used for 120 volt overhead service applications such as street lighting, outdoor lighting, and temporary service for construction. To be used at voltages of 600 volts phase-to-phase or less and at conductor temperatures not to exceed 75°C for low density polyethylene (LLDPE) insulated conductors.

SPECIFICATIONS:

- ASTM B230 Aluminum, 1350-H19 Wire for Electrical Purposes
- ASTM B400 Standard Specification for Compact Round Concentric-Lay-Stranded, Aluminum 1350 Conductors
- CSA 22.2 No. 129 Neutral Supported Cable
- 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	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
617283	4	7	0.213	45	0.303	6	0.655	146
616215	2	7	0.268	45	0.358	2	0.773	255
617284	2	7	0.268	45	0.358	4	0.773	221
616216	1/0	7	0.336	60	0.456	1/0		408
617285	1/0	7	0.336	60	0.456	2	0.985	354
616217	2/0	7	0.376	60	0.496	2/0	1.071	505
616220	4/0	7	0.475	60	0.595	4/0	1.285	779

All dimensions are nominal and subject to normal manufacturing tolerances

Table 2 – Electrical and Engineering Data

Phase Cond. Size	Neutral Rated Breaking Strength	DC Resistance @ 25°C	AC Resistance @ 75°C	Inductive Reactance @ 60Hz	GMR
AWG/Kcmil	lb	Ω/1000ft	Ω/1000ft	Ω/1000ft	ft
4	1860	0.4239	0.5807	0.031	0.0068
2	2850	0.2613	0.3652	0.0296	0.0086
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1/0	4380	0.1642	0.2295	0.0299	0.0108
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2/0	5310	0.1302	0.1821	0.0293	0.0122
4/0	8350	0.082	0.1146	0.0273	0.0157

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 75°; ambient temperature of 40°C; emissivity 0.9; 2 ft./sec. wind in sun.

Neutral Code Word

Size	Code Word	OD (inches)
#6	Bass	0.182
#4	Pike	0.229
#2	Carp	0.290
1/0	Sole	0.365
2/0	Hake	0.410
4/0	Scup	0.517