



# NS75 CSA Triplex LLDPE Service Drop. ACSR Neutral - Messenger

Aluminum Conductors With Linear Low Density Polyethylene Insulation.

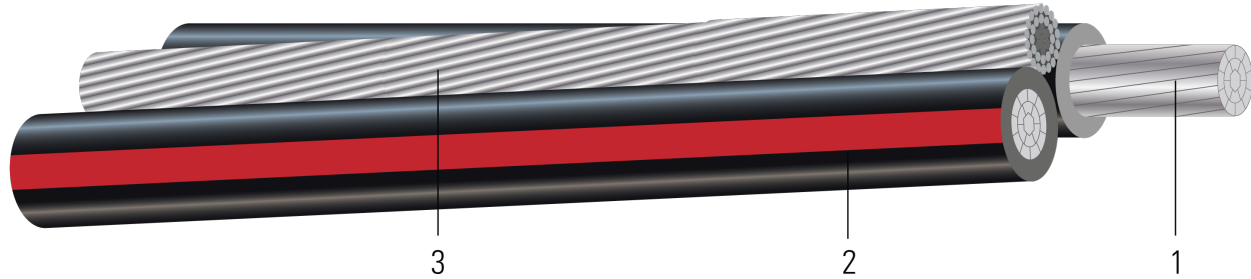


Image not to scale. See Table 1 for dimensions.

## 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      |
| 616217       | 2/0              | 7            | 0.376                     | 60                     | 0.496                      | 2/0                | 1.071      | 505            |

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     |
| 2/0              | 5310                            | 0.1302               | 0.1821               | 0.0293                     | 0.0122 |

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       |

