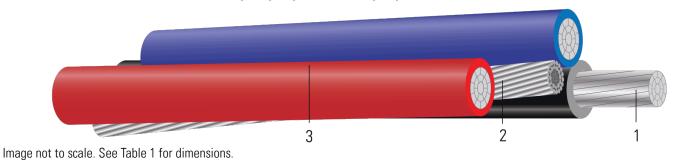


NS75 CSA Quadruplex LLDPE/PVC Service Drop. ACSR Neutral - Messenger

Aluminum Conductors With Linear Low Density Polyethylene And Polyvinyl Chloride Insulation.



CONSTRUCTION:

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

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 75°C for Linear Low Density Polyethylene (LLDPE) and Polyvinyl Chloride (PVC) 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)
- CSA 22.2 No. 129 Neutral Supported Cable





Table 1 – Weights and Measurements

| 1 | 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 |
| 6 | 663204 | 3/0 | 7 | 0.423 | 105 | 0.633 | 3/0 | 1.528 | 972 |

All dimensions are nominal and subject to normal manufacturing tolerances

Table 2 – Electrical and Engineering Data

| Phase Cond. Size | DC Resistance @ 25°C | AC Resistance @ 75°C | Inductive Reactance @ 60Hz | GMR |
|------------------|----------------------|----------------------|----------------------------|--------|
| AWG/Kcmil | Ω/1000ft | Ω/1000ft | Ω/1000ft | ft |
| 3/0 | 0.1054 | 0.1444 | 0.032 | 0.0139 |

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 |
| #2 | Carp | 0.290 |
| 2/0 | Hake | 0.410 |
| 3/0 | Cusk | 0.461 |
| 4/0 | Scup | 0.517 |



^{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.