



# Covered Line Wire With Crosslinked Polyethylene (XLPE) - ACSR

ACSR Covered with Black Crosslinked Polyethylene

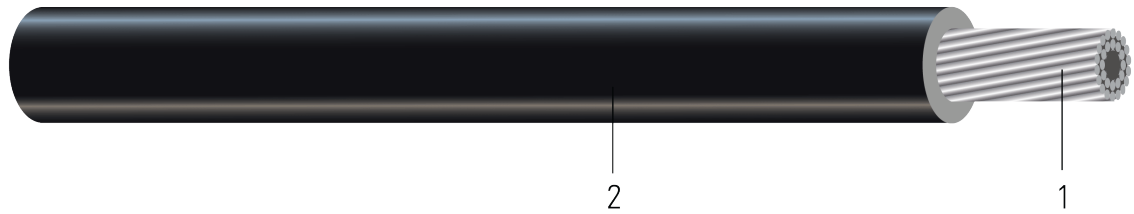


Image not to scale. See Table 1 for dimensions.

## CONSTRUCTION:

1. **Conductor:** Stranded compressed aluminum steel reinforced ACSR
2. **Insulation:** Black Crosslinked Polyethylene (XLPE)

## APPLICATIONS AND FEATURES:

Aluminum alloy 1350-H19 concentrically stranded steel reinforced ACSR. Covered with crosslinked polyethylene (XLP). Used primarily for, but not limited to, overhead secondary distribution lines. Installed on insulators, otherwise treated as a bare conductor. Crosslinked covered line wires have the below temperature ratings:

- Normal Service temperature of 90°C
- Emergency Overload of 130°C
- Short Circuit temperature of 250°C

## SPECIFICATIONS:

- ASTM B232 Concentric-Lay-Stranded, Aluminum Conductors, Coated Steel Reinforced (ACSR)
- ICEA S-70-547 Weather Resistant Polyethylene Covers Conductors





**Table 1 – Weights and Measurements**

| Code Word | Phase Cond. Size<br>AWG/Kcmil | Phase Strand<br>No. | Phase Insul. Thickness<br>mil | Approx. OD<br>inch | Approx. Weight<br>lb/1000ft |
|-----------|-------------------------------|---------------------|-------------------------------|--------------------|-----------------------------|
| Chestnut  | 1                             | 6/1                 | 45                            | 0.444              | 145                         |

All dimensions are nominal and subject to normal manufacturing tolerances

**Table 2 – Electrical and Engineering Data**

| Code Word | Phase Cond. Size<br>AWG/Kcmil | Neutral Rated Breaking Strength<br>lb | Allowable Ampacity In Air 90°C<br>Amp |
|-----------|-------------------------------|---------------------------------------|---------------------------------------|
| Chestnut  | 1                             | 3370                                  | 180                                   |

\* Inductive impedance is based on non-ferrous conduit with one diameter spacing center-to-center.

