



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

ACSR Covered with Black Crosslinked Polyethylene

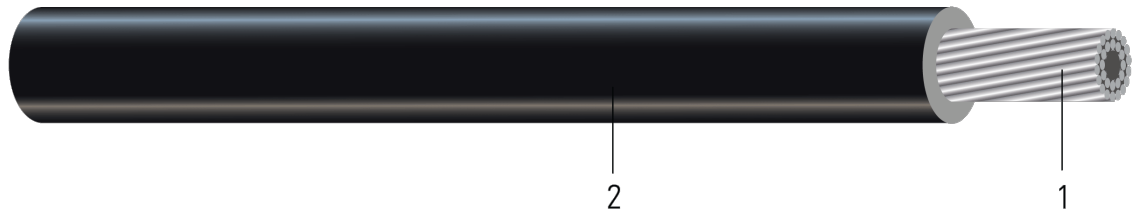


Image not to scale. See Table 1 for dimensions.

## CONSTRUCTION:

- Conductor:** Stranded compressed aluminum steel reinforced ACSR
- 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**

Stock Number	Code Word	Phase Cond. Size AWG/Kcmil	Phase Strand No.	Phase Insul. Thickness mil	Approx. OD inch	Approx. Weight lb/1000ft
TBA	Walnut	6	6/1	30	0.258	47
TBA	Butternut	4	6/1	30	0.310	72
TBA	Hickory	4	7/1	30	0.317	83
104398	Pignut	2	6/1	45	0.406	118
TBA	Beech	2	7/1	45	0.415	136
TBA	Chestnut	1	6/1	45	0.444	145
104422	Almond	1/0	6/1	60	0.518	190
104430	Pecan	2/0	6/1	60	0.567	233
104448	Filbert	3/0	6/1	60	0.622	288
104455	Buckeye	4/0	6/1	60	0.683	357
TBA	Hackberry	266.8	18/1	60	0.729	354

All dimensions are nominal and subject to normal manufacturing tolerances





**Table 2 – Electrical and Engineering Data**

Code Word	Phase Cond. Size AWG/Kcmil	Neutral Rated Breaking Strength lb	Allowable Ampacity In Air 90°C Amp
Walnut	6	1130	495
Butternut	4	1770	495
Hickory	4	2240	105
Pignut	2	2710	140
Beech	2	3460	720
Chestnut	1	3370	180
Almond	1/0	4160	320
Pecan	2/0	5040	970
Filbert	3/0	6290	145
Buckeye	4/0	7930	610
Hackberry	266.8	6540	438

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

