Covered Line Wire With Crosslinked Polyethylene (XLPE) - ACSR

ACSR Covered with Black Crosslinked Polyethylene

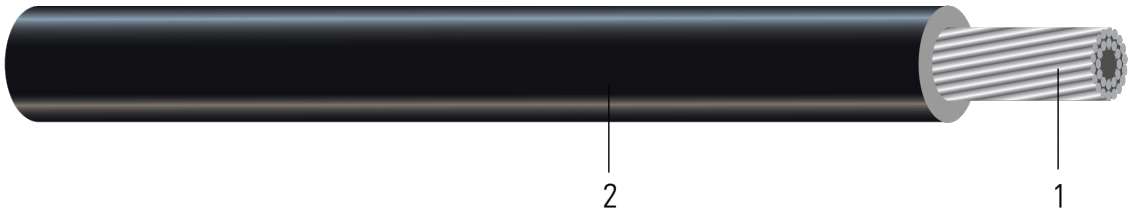

Image not to scale. See Table 1 for dimensions.

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 90ºC
- Emergency Overload of 130ºC
- Short Circuit temperature of 250ºC

SPECIFICATIONS:

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

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Table 1 – Weights and Measurements

Stock Number	Code Word	Phase Cond. Size	Phase Strand	Dia. Over Phase Conductor	Phase Insul. Thickness	Approx. OD	Approx. Weight
		AWG/Kcmil	No.	inch	mil	inch	lb/1000ft
104455	BUCKEYE	4/0	6/1	0.512	60	0.683	353

All dimensions are nominal and subject to normal manufacturing tolerances
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.

Table 2 – Electrical and Engineering Data

Code Word	Phase Cond. Size	DC Resistance @ 25°C	AC Resistance @ 75°C	Inductive Reactance @ 60Hz	GMR	Allowable Ampacity In Air 75/90°C
	AWG/Kcmil	Ω/1000ft	Ω/1000ft	Ω/1000ft	ft	Amp
BUCKEYE	4/0	0.084	0.105	0.041	0.197	280/315

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

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