Covered Line Wire With Crosslinked Polyethylene (XLPE) - ACSR

ACSR Covered with Black Crosslinked Polyethylene

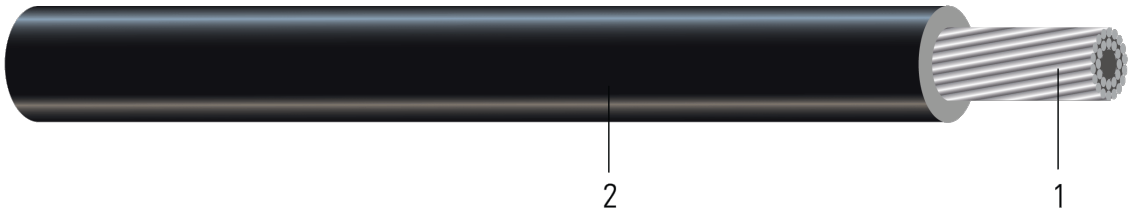


Image not to scale. See Table 1 for dimensions.

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

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
TBA	WALNUT	6	7	0.178	45	0.268	42
TBA	BUTTERNUT	4	7	0.225	45	0.315	60
TBA	HICKORY	4	7	0.225	45	0.315	60
104398	PIGNUT	2	6/1	0.283	45	0.406	116
457349	BEECH	2	7/1	0.283	45	0.415	132
TBA	CHESTNUT	1	19	0.322	60	0.442	118
104422	ALMOND	1/0	6/1	0.362	60	0.518	187
104430	PECAN	2/0	6/1	0.405	60	0.567	230
104448	FILBERT	3/0	6/1	0.456	60	0.622	285
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.

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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
WALNUT	6	0.674	0.84	0.051	0.067	75/85
BUTTERNUT	4	0.424	0.528	0.048	0.084	100/115
HICKORY	4	0.424	0.528	0.048	0.084	100/115
PIGNUT	2	0.266	0.331	0.045	0.105	135/150
BEECH	2	0.266	0.331	0.045	0.105	135/150
CHESTNUT	1	0.211	0.263	0.046	0.124	155/175
ALMOND	1/0	0.167	0.208	0.044	0.139	180/205
PECAN	2/0	0.133	0.166	0.043	0.156	210/235
FILBERT	3/0	0.105	0.131	0.042	0.175	240/270
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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