Transformer Riser Wire, Protected Ground Wire (PGW), Cathodic Protection (CP) Cables, XLPE

Black Cross Linked Polyethylene Covered. Solid or Stranded Soft Drawn Copper Conductor

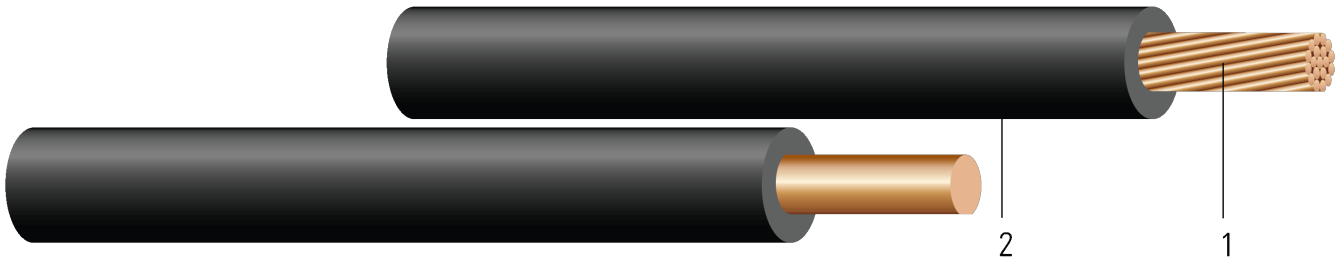


Image not to scale. See Table 1 for dimensions.

CONSTRUCTION:

1. **Conductor:** Conductors are solid or stranded compressed copper
2. **Covering:** Black Cross Linked Polyethylene (XLPE)

APPLICATIONS AND FEATURES:

Used as covered grounding conductors, protected ground wires (PGW), cathodic protection (CP) cables, or on transformers as connection between line conductor and transformer primary bushing in applications where protection from momentary contact from wildlife is needed. Although not treated as an insulation, the XLPE covering does provide an increased level of protection from momentary grounded contacts caused by wildlife, excessive wind and tree limbs or other grounded objects in the proximity of the high voltage lead. May be used on distribution system voltages up to 35kV line-to-line.

SPECIFICATIONS:

- ASTM B3 Soft or Annealed Copper Wire
- ASTM B8 Concentric-Lay-Stranded Copper Conductors
- ICEA S-70-547 Weather Resistant Polyethylene Covers Conductors

Table 1 – Weights and Measurements

Stock Number	Phase Cond. Size	Phase Strand	Dia. Over Phase Conductor	Phase Insul. Thickness	Approx. OD	Approx. Weight
	AWG/Kcmil	No.	inch	mil	inch	lb/1000ft
496372	6	SOLID	0.178	110	0.382	117
625281	6	7	0.178	110	0.398	122
139178	4	SOLID	0.225	110	0.424	170
663619	4	7	0.225	110	0.445	177
TBA	2	SOLID	0.258	45	0.348	229
440800	2	7	0.283	110	0.503	262

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

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
6	0.411	0.51	0.051	0.067	95/105
6	0.411	0.51	0.051	0.067	95/105
4	0.258	0.32	0.048	0.084	125/140
4	0.258	0.32	0.048	0.084	125/140
2	0.162	0.201	0.045	0.105	170/190
2	0.162	0.201	0.045	0.105	170/190

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