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

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

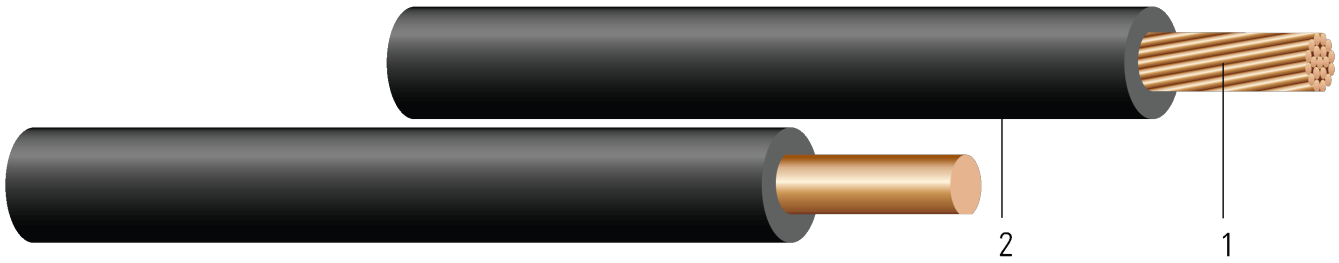



Image not to scale. See Table 1 for dimensions.

## 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


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## Table 1 – Weights and Measurements

| Phase Cond. Size | Phase Strand | Dia. Over Phase Conductor | Phase Insul. Thickness | Approx. OD | Approx. Weight |
|---|---|---|---|---|---|
| AWG/Kcmil | No. | inch | mil | inch | lb/1000ft |
| 2 | SOLID | 0.258 | 45 | 0.348 | 229 |

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

| 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 |
| 2 | 0.162 | 0.201 | 0.045 | 0.105 | 170/190 |


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