Covered Line Wire With Thermoplastic Polyethylene (PE)

Aluminum Conductor Covered with Black Polyethylene (PE)

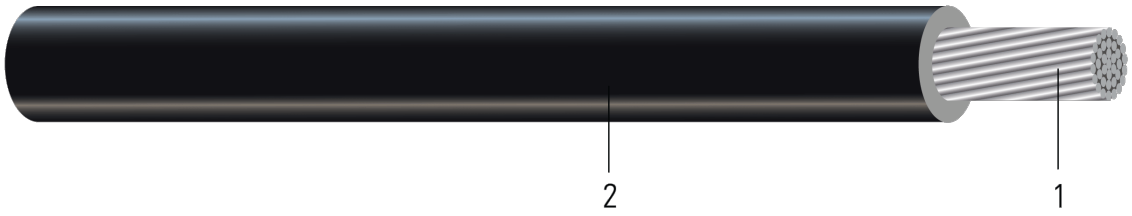

Image not to scale. See Table 1 for dimensions.

CONSTRUCTION:

1. **Conductor:** Conductors are solid or stranded compressed aluminum
2. **Covering:** Black Polyethylene (PE)

APPLICATIONS AND FEATURES:

Aluminum alloy 1350-H19 or 6201 concentrically stranded. Covered with Black Polyethylene (PE). Used primarily for, but not limited to, overhead secondary distribution lines. Installed on insulators, otherwise treated as a bare conductor. Black Polyethylene (PE) covered line wires have the below temperature ratings:

- Normal Service temperature of 75ºC
- Emergency Overload of 95ºC
- Short Circuit temperature of 150ºC

SPECIFICATIONS:

- ASTM B230 Aluminum, 1350-H19 Wire for Electrical Purposes
- ASTM B231 Standard Specification for Concentric-Lay-Stranded Aluminum 1350 Conductors
- ASTM B400 Standard Specification for Compact Round Concentric-Lay-Stranded, Aluminum 1350 Conductors
- 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
621974	ANNONA	336.4	19	0.646	60	0.786	388

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
ANNONA	336.4	0.051	0.064	0.041	0.255	379/427

* Ampacity ratings based on 75ºC conductor temperature 40ºC ambient temperature. Wind speed 2 ft./sec. in sun.
* Diameter equivalent to ACSR construction or 1350 aluminum equivalent.

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