

Covered Line Wire Copper

XLPE or PE Insulated

Features

Covered Line Cables meet or exceed all applicable requirements of ICEA S-70-547.

Application

These cables are intended primary for the distribution of electrical energy under normal condition of overhead (aerial) installation and service outdoors.

Approved for use on insulators for overhead circuits.

Otherwise treated as a bare conductor.

Standards

ICEA S-70-547

Weather-Resistant Polyolefin Covered Wire and Cable.

ASTM B1

Hard-Drawn Copper.

ASTM B3

Soft or Annealed Copper Wire.

ASTM B8

Concentric-Lay-Stranded Copper Conductors.

Specifications

Maximum operating voltage:

- Coverings carry no voltage rating

Maximum conductor operation temperatures:

PE

- Normal: 75 °C
- Emergency: 95 °C
- Short Circuit: 150 °C

XLPE

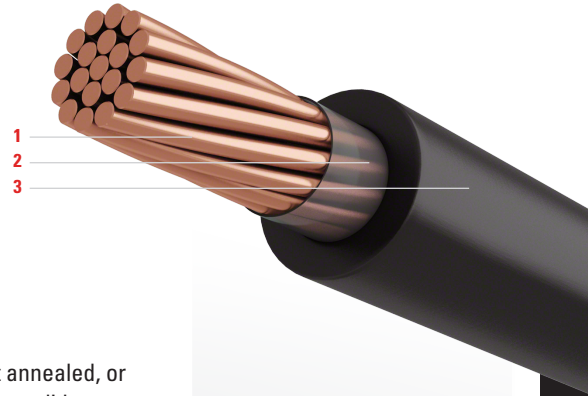
- Normal: 90 °C
- Emergency: 130 °C
- Short Circuit: 250 °C

Engineering Information

1. Conductor: Soft annealed, or hard-drawn copper, solid per ASTM B1 or B3, compressed Class B or A stranding, per ASTM B8.

2. Separator: A suitable opaque tape, as required.

3. Insulation: Black thermoset cross-linked polyethylene (XLPE) or thermoplastic high density polyethylene (HDPE).



Technical Data

Covered Line Wire XLPE or PE Insulation, Single

Size AWG or kcmil	Number of Strands	Covering Thickness mil	Cable OD in	Weight		dc Resistance	
				PE lb/kft	XLPE lb/kft	Hard-drawn 25 °C	Soft 25 °C
				6	1	30	0.23
4	1	30	0.27	136	136	0.264	0.2530
2	1	45	0.35	220	219	0.166	0.1590
6	7	30	0.24	91	91	0.428	0.4110
4	7	30	0.29	142	142	0.269	0.2580
2	7	45	0.38	229	229	0.169	0.1620
1/0	7	60	0.49	367	367	0.106	0.1020
2/0	19	60	0.53	455	454	0.084	0.0810
3/0	19	60	0.58	567	567	0.067	0.0642
4/0	19	60	0.64	709	709	0.053	0.0510
250	19	60	0.68	833	833	0.045	0.0431
300	19	60	0.74	993	993	0.037	0.0360
350	19	60	0.79	1155	1154	0.032	0.0308
500	37	80	0.96	1650	1647	0.022	0.0216
750	61	80	1.14	2440	2437	0.015	0.0144
1000	61	95	1.32	3258	3257	0.011	0.0108

The above data are approximate and subject to normal manufacturing tolerances. Where required, the compatibility with glands, connectors and accessories should be verified using actual dimensions of the product. Other sizes available upon request.

Ampacities: Refer to beginning of section.

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