

Secondary URD/Ruggedized Copper

XLPE Insulated, 600 V



A Viakable Company

Features

Superior mechanical performance, for direct buried use.

Great ability to resist physical damage during shipping, handling, storage, installation and during operation.

Tougher and durable construction, to withstand damage from backfill, rough handling and sharp objects.

Application

Used for secondary distribution and underground service at 600 volts or less.

May be used in ducts or direct burial.

Standards

ICEA S-81-570

Standard for 600 V Cable of Ruggedized Design for Direct Burial Installations as Single Conductors or Assemblies of Single Conductors.

Specifications

Maximum operating voltage:

- 600 volts

Maximum conductor operation temperatures:

- 90 °C wet and dry

Engineering Information

1. Conductor: Soft annealed copper, solid per ASTM B3, Class B, compressed stranding or unilay compressed per ASTM B8.

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

3. Insulation

Phase Conductor: Black thermoset cross-linked polyethylene (XLPE).

Neutral conductor: Black thermoset cross-linked polyethylene (XLPE), with three yellow extruded stripes.

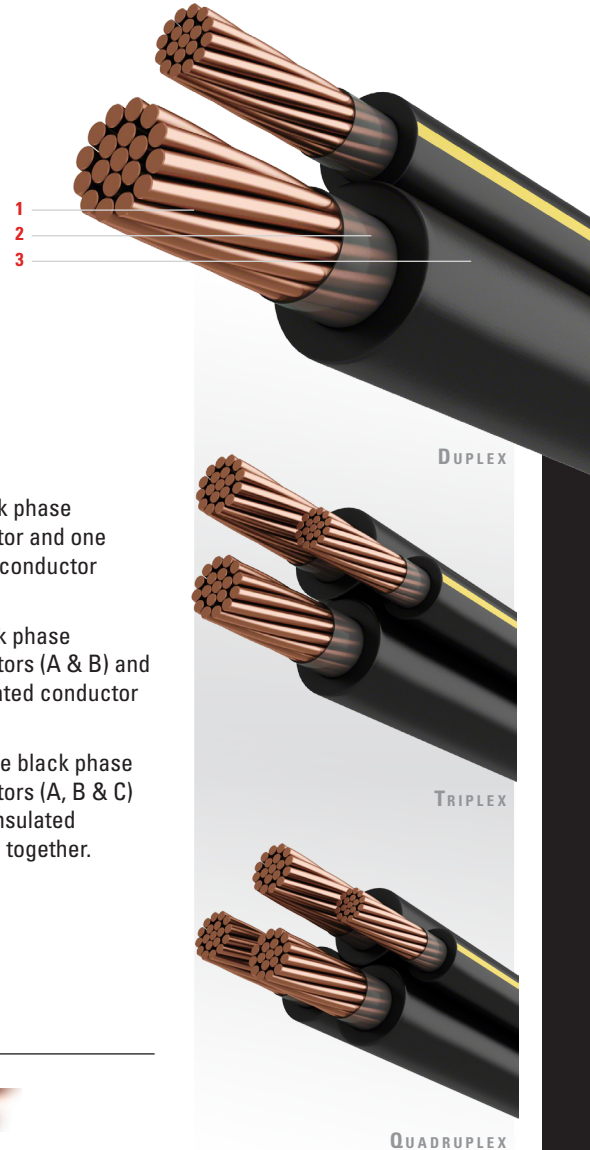
Conductor Phase ID: Ink printed.

Configurations

Duplex: One black phase insulated conductor and one neutral insulated conductor cabled together.

Triplex: Two black phase insulated conductors (A & B) and one neutral insulated conductor cabled together.

Quadruplex: Three black phase insulated conductors (A, B & C) and one neutral insulated conductor cabled together.



Technical Data

Duplex XLPE Insulated, 600 V

Phase Conductor			Neutral Conductor			Cable OD		Weight XLPE lb/kft
Size AWG or kcmil	Number of Strands	Insulation Thickness	Size AWG or kcmil	Number of Strands	Insulation Thickness	Single Phase mil	Complete Cable in	
		mil			mil			
8-7/w	7	60	8	7	60	0.27	0.53	138
6-7/w	7	60	6	7	60	0.30	0.60	207
4-7/w	7	60	4	7	60	0.35	0.70	313

The above data are approximate and subject to normal manufacturing tolerances. Other sizes available upon request.

Ampacities: Refer to beginning of section.

Technical Data *continued*

Triplex XLPE Insulated, 600 V

Phase Conductor			Neutral Conductor			Cable OD		Weight XLPE lb/kft
Size AWG or kcmil	Number of Strands	Insulation Thickness	Size AWG or kcmil	Number of Strands	Insulation Thickness	Single Phase mil	Complete Cable in	
		mil			mil			
6-7/w	7	60	6	7	60	0.30	0.65	311
4-7/w	7	60	4	7	60	0.35	0.75	470
2-7/w	7	60	4	7	60	0.41	0.87	637
2-7/w	7	60	2	7	60	0.41	0.87	721
1-19/w	19	80	3	7	60	0.49	1.05	813
1/0-19/w	19	80	2	7	60	0.53	1.13	1,007
1/0-19/w	19	80	1/0	19	80	0.53	1.13	1,151
2/0-19/w	19	80	1	19	80	0.57	1.23	1,262
2/0-19/w	19	80	2/0	19	80	0.57	1.23	1,428
2/0-19/w	19	80	2/0	19	80	0.57	1.23	1,428
2/0-19/w	19	80	2/0	19	80	0.57	1.23	1,428
3/0-19/w	19	80	1/0	19	80	0.62	1.34	1,568
3/0-19/w	19	80	3/0	19	80	0.62	1.34	1,776
4/0-19/w	19	80	2/0	19	80	0.68	1.46	2,199
4/0-19/w	19	80	4/0	19	80	0.68	1.46	2,213
4/0-19/w	19	80	4/0	19	80	0.68	1.46	2,213
250-37/w	37	95	3/0	19	80	0.75	1.62	2,342
350-37/w	37	95	4/0	19	80	0.85	1.84	3,148
350-37/w	37	95	350	37	95	0.85	1.84	3,615
350-37/w	37	95	350	37	95	0.85	1.84	3,615
500-37/w	37	95	300	37	95	0.98	2.12	4,433
500-37/w	37	95	350	37	95	0.98	2.12	4,598

Quadruplex XLPE Insulated, 600 V

Phase Conductor			Neutral Conductor			Cable OD		Weight XLPE lb/kft
Size AWG or kcmil	Number of Strands	Insulation Thickness	Size AWG or kcmil	Number of Strands	Insulation Thickness	Single Phase mil	Complete Cable in	
		mil			mil			
6-7/w	7	60	6	7	60	0.30	0.73	414
4-7/w	7	60	4	7	60	0.35	0.84	627
2-7/w	7	60	4	7	60	0.35	0.98	877
2-7/w	7	60	2	7	60	0.41	0.98	961
1-19/w	19	80	3	7	60	0.38	1.17	1,123
1/0-19/w	19	80	2	7	60	0.41	1.27	1,391
1/0-19/w	19	80	1/0	19	80	0.53	1.27	1,534
2/0-19/w	19	80	1	19	80	0.49	1.38	1,738
2/0-19/w	19	80	2/0	19	80	0.57	1.38	1,905
3/0-19/w	19	80	1/0	19	80	0.53	1.50	2,160
3/0-19/w	19	80	3/0	19	80	0.62	1.50	2,369
4/0-19/w	19	80	2/0	19	80	0.57	1.63	2,689
4/0-19/w	19	80	4/0	19	80	0.68	1.63	2,951
250-37/w	37	95	3/0	19	80	0.62	1.82	3,217
300-37/w	37	95	4/0	19	80	0.68	1.95	3,857
350-37/w	37	95	4/0	19	80	0.68	2.06	4,353
350-37/w	37	95	350	37	95	0.85	2.06	4,821

The above data are approximate and subject to normal manufacturing tolerances. Other sizes available upon request.

Ampacities: Refer to beginning of section.