

Internal Wiring Power Cable, XLPE Insulated



A Viakable Company

5 kV, Non Shielded

Features

UL Listed as Nonshielded Cable.
Insulation is Sunlight and Track Resistance.

Application

Nonshielded cables are intended solely for use as factory-installed wiring in equipment (internal wiring), in industrial applications where such cable systems are maintained by trained personnel, not as type MV. These cables must be protected and are not to be in contact by personnel while energized.

Typical applications are for OEM equipment such as switchgear, transformers, etc.

Standards

UL 2460
Nonshielded Cable.

Specifications

Maximum operating voltage:

- 5 kV.

Maximum conductor operation temperatures:

In dry locations:

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

Engineering Information

1. Conductor: Soft annealed uncoated copper compacted Class B per ASTM B496 or hard drawn Aluminum-1350 compacted Class B per ASTM B400.

On request, compressed strand.

Sizes: 8 AWG (6 AWG Aluminum) up to 1000 kcmil.

On request, larger conductor sizes available.

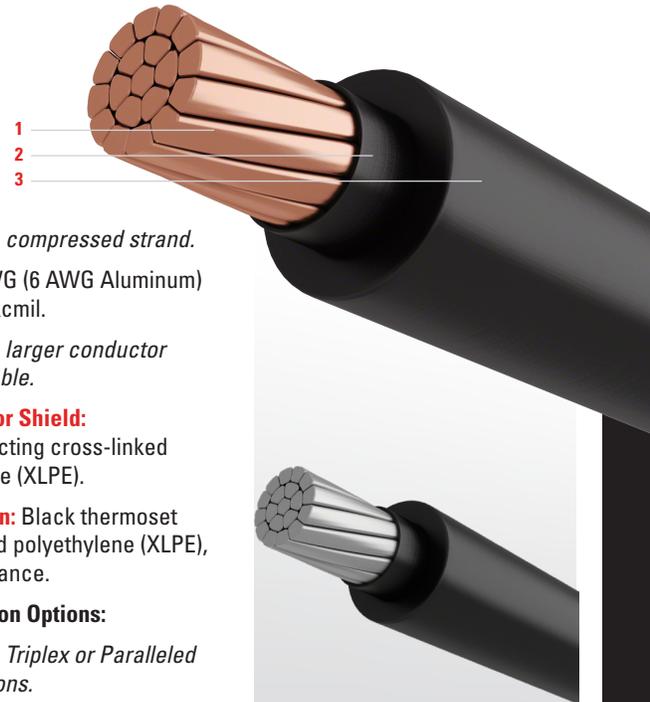
2. Conductor Shield:

Semiconducting cross-linked polyethylene (XLPE).

3. Insulation: Black thermoset cross-linked polyethylene (XLPE), track resistance.

Configuration Options:

On request, Triplex or Paralleled configurations.



ALUMINUM CONDUCTOR

Technical Data

5 kV XLPE Insulated

Size AWG or kcmil	Number of Strands	Conductor Nominal OD in	100% Insulation Level			
			Insulation Thickness mil	Approximate Outside Diameter in	Approximate Net Weight	
					Copper lb/kft	Aluminum lb/kft
8	7	0.13	110	0.39	94	—
6	7	0.17	110	0.42	131	74
4	7	0.21	110	0.47	187	97
2	7	0.27	110	0.52	273	131
1	19	0.30	110	0.55	331	151
1/0	19	0.34	110	0.59	405	178
2/0	19	0.38	110	0.63	498	212
3/0	19	0.42	110	0.68	614	254
4/0	19	0.48	110	0.73	760	305
250	37	0.52	120	0.81	898	361
350	37	0.62	120	0.90	1227	474
500	37	0.74	120	1.02	1715	641
750	61	0.91	130	1.22	2539	928
1000	61	1.06	130	1.38	3344	1197

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

Ampacities: Refer to beginning of section.

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