



CONDUMEX

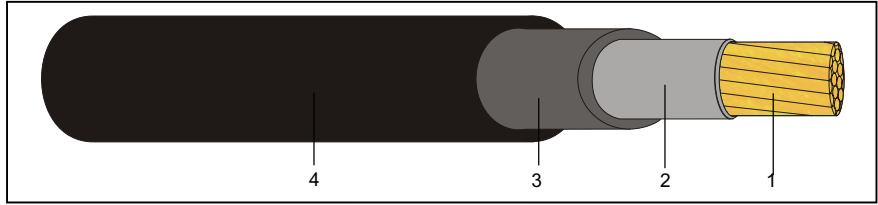


VULCANEL® MEDIUM VOLTAGE XLPE OR EPR NON-SHIELDED WET OR DRY POWER CABLE 5 KV

16.VUL.01

DESCRIPTION

- 1) Annealed bare stranded class B compact copper conductor.
- 2) Extruded semiconducting strand shield.
- 3) Ethylene propylene (EPR) or cross-linked polyethylene (XLPE) insulation.
- 4) Polyvinyl chloride (PVC) protective jacket.



APPLICATION

VULCANEL® 5kv Non-shielded power cables are ideally suited for use in industrial and utility applications where shields cannot be adequate for proper termination of the shielding.

MAXIMUM CONDUCTOR TEMPERATURE

Normal Operation	105° C
Emergency Overload	130° C
Short Circuit	250° C

FEATURES

- 1) Simultaneous extrusion of strand shield, insulation and insulation shield (triple extrusion) results in a virtually perfect cable core.
- 2) XLPE insulation offers:
 - Low moisture absorption.
 - Good resistance to chemicals.
 - Very low dielectric loss
 EPR insulation offers:
 - Excellent heat, moisture and corona resistance.
 - Electrical stability under stress
 - Low dielectric loss
 - Chemical resistance
- 3) Easy-stripping insulation shield
- 4) The external PVC jacket is resistant to abrasion, ozone and moisture.
- 5) UL listed as MV-105, sunlight resistant, direct burial. Optional marking "For CT use" available on single conductor in accordance with the National Electrical Code.

SPECIFICATIONS

ICEA S-68-516, AEIC CS-6-87 (EPR)
ICEA S-66-524, AEIC CS-S (XLP)
UL 1072 (UL)

HOW TO ORDER

VULCANEL® EPR/XLPE Non-Shielded power cable, voltage and insulation level, conductor size and type, length and reel dimensions.

National Electrical Code References:

Ampacities	310-15
Cable Trays	318
Type MV	326

Size AWG/ kcmil	Number of Strands	Conductor Diameter inch	Insulation Thickness inch	Insulation Diameter inch	Jacket Thickness mils	Overall Diameter Inch	Net Weight Lb/Mft	
							XLPE	EPR

5KV 133% Insulation Level, 115 mils Insulation Thickness

8	7	0.14	125	0.43	80	0.60	190	201
6	7	0.17	125	0.47	80	0.64	234	245
4	7	0.22	125	0.52	80	0.68	298	310
2	7	0.27	125	0.57	80	0.74	394	409
1/0	19	0.34	125	0.64	80	0.80	539	557
2/0	19	0.38	125	0.68	80	0.85	639	658
3/0	19	0.43	125	0.73	95	0.92	788	808
4/0	19	0.48	125	0.78	95	0.97	944	966
250	37	0.52	140	0.87	110	1.09	1143	1171
350	37	0.62	140	0.96	110	1.19	1496	1527
500	37	0.74	140	1.08	110	1.31	2014	2030
750	61	0.91	155	1.29	125	1.55	2950	2998
1000	61	1.06	155	1.44	125	1.70	3799	3854

Dimension and weights shown are nominal, unless otherwise indicated, and subject to manufacturing tolerances.



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VULCANEL® MEDIUM VOLTAGE XLPE OR EPR NON-SHIELDED WET OR DRY POWER CABLE 5 KV

16.VUL.01

Size AWG/ kcmil	Number of Strands	Conductor Diameter inch	Insulation Thickness inch	Insulation Diameter inch	Jacket Thickness mils	Overall Diameter Inch	Net Weight lb/Mft	
							XLPE	EPR

15kV 133% Insulation Level, 220 mils Insulation Thickness

8	7	0.14	125	0.43	80	0.60	190	201
6	7	0.17	125	0.47	80	0.64	234	245
4	7	0.22	125	0.52	80	0.68	298	310
2	7	0.27	125	0.57	80	0.74	394	409
1/0	19	0.34	125	0.64	80	0.80	539	557
2/0	19	0.38	125	0.68	80	0.85	639	658
3/0	19	0.43	125	0.73	95	0.92	788	808
4/0	19	0.48	125	0.78	95	0.97	944	966
250	37	0.52	140	0.87	110	1.09	1143	1171
350	37	0.62	140	0.96	110	1.19	1496	1527
500	37	0.74	140	1.08	110	1.31	2014	2030
750	61	0.91	155	1.29	125	1.55	2950	2998
1000	61	1.06	155	1.44	125	1.70	3799	3854

25kV 100% Insulation Level, 260 mils Insulation Thickness

8	7	0.14	125	0.43	80	0.60	190	201
6	7	0.17	125	0.47	80	0.64	234	245
4	7	0.22	125	0.52	80	0.68	298	310
2	7	0.27	125	0.57	80	0.74	394	409
1/0	19	0.34	125	0.64	80	0.80	539	557
2/0	19	0.38	125	0.68	80	0.85	639	658
3/0	19	0.43	125	0.73	95	0.92	788	808
4/0	19	0.48	125	0.78	95	0.97	944	966
250	37	0.52	140	0.87	110	1.09	1143	1171
350	37	0.62	140	0.96	110	1.19	1496	1527
500	37	0.74	140	1.08	110	1.31	2014	2030
750	61	0.91	155	1.29	125	1.55	2950	2998
1000	61	1.06	155	1.44	125	1.70	3799	3854

35kV 100% Insulation Level, 345 mils Insulation Thickness

8	7	0.14	125	0.43	80	0.60	190	201
6	7	0.17	125	0.47	80	0.64	234	245
4	7	0.22	125	0.52	80	0.68	298	310
2	7	0.27	125	0.57	80	0.74	394	409
1/0	19	0.34	125	0.64	80	0.80	539	557
2/0	19	0.38	125	0.68	80	0.85	639	658
3/0	19	0.43	125	0.73	95	0.92	788	808
4/0	19	0.48	125	0.78	95	0.97	944	966
250	37	0.52	140	0.87	110	1.09	1143	1171
350	37	0.62	140	0.96	110	1.19	1496	1527
500	37	0.74	140	1.08	110	1.31	2014	2030
750	61	0.91	155	1.29	125	1.55	2950	2998
1000	61	1.06	155	1.44	125	1.70	3799	3854

Dimension and weights shown are nominal, unless otherwise indicated, and subject to manufacturing tolerances.



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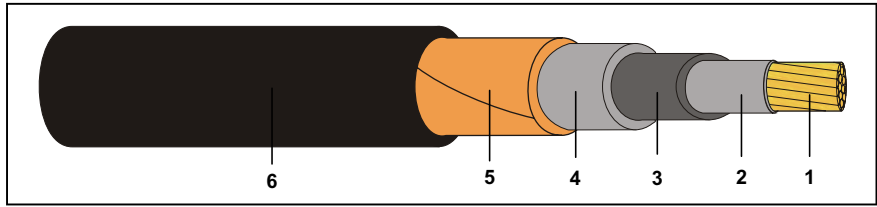


VULCANEL® MEDIUM VOLTAGE EPR SHIELDED POWER CABLES 5, 15, 25, 35 KV

16.VUL.SHLD.01

DESCRIPTION

- 1) Annealed bare stranded class B compact copper conductor.
- 2) Extruded semiconducting strand shield.
- 3) Ethylene propylene rubber (EPR) insulation.
- 4) Extruded semiconducting insulation shield.
- 5) Annealed copper tape shield (25% overlap minimum).
- 6) Polyvinyl chloride (PVC) protective jacket.



APPLICATION

Three-phase electrical distribution systems. Suitable for use in overhead installations, recognized raceways, direct burial or cable trays.

MAXIMUM CONDUCTOR TEMPERATURE

Normal Operation	105 °C
Emergency Overload	130 °C
Short Circuit	250 °C

FEATURES

- 1) Simultaneous extrusion of strand shield, insulation and insulation shield (triple extrusion) results in a virtually perfect cable core.
- 2) EPR insulation offers:
 - Excellent heat, moisture and corona resistance.
 - Electrical stability under stress
 - Low dielectric loss
 - Chemical resistance
- 3) Easy-stripping insulation shield
- 4) Tape shield provides high short circuit capabilities and uniform shield impedance.
- 5) The external PVC jacket is resistant to abrasion, ozone and moisture.
- 6) UL listed as MV-105, sunlight resistant, direct burial. Optional marking "For CT use" available on single conductor in accordance with the National Electrical Code.

SPECIFICATIONS

ICEA S-68-516, AEIC CS6-87
UL 1072 (UL)

HOW TO ORDER

VULCANEL® EPR shielded power cable, voltage and insulation level, conductor size and type, length and reel dimensions.
National Electrical Code References:
Ampacities 310-15
Cable Trays 318
Type MV 326

Size	Number of Strands	Conductor Diameter	Insulation Thickness	Insul. Shld. Diameter	Jacket Thickness	Overall Diameter	Net Weight
AWG/kcmil		Inch	inch	inch	mils	Inch	lb/Mft

5kV 133% Insulation Level, 115 mils Insulation Thickness

6	7	0.17	0.45	0.53	60	0.67	290
4	7	0.22	0.49	0.57	60	0.71	357
2	7	0.27	0.55	0.63	60	0.74	478
1/0	19	0.34	0.62	0.70	80	0.85	668
2/0	19	0.38	0.66	0.74	80	0.92	775
3/0	19	0.43	0.71	0.79	80	0.97	933
4/0	19	0.48	0.76	0.84	80	1.02	1071
250	37	0.52	0.81	0.90	80	1.07	1226
350	37	0.62	0.91	0.99	80	1.17	1560
500	37	0.74	1.03	1.13	80	1.32	2150
750	61	0.91	1.21	1.32	80	1.50	3027
1000	61	1.11	1.36	1.46	80	1.64	3845

5kV 100% Insulation Level, 175 mils Insulation Thickness

2	7	0.27	0.67	0.75	80	0.93	570
1/0	19	0.34	0.74	0.82	80	1.00	736
2/0	19	0.38	0.78	0.86	80	1.04	849
3/0	19	0.43	0.83	0.91	80	1.09	1010
4/0	19	0.48	0.88	0.96	80	1.14	1190
250	37	0.52	0.94	1.02	80	1.20	1330
350	37	0.62	1.03	1.14	80	1.32	1753
500	37	0.74	1.16	1.26	80	1.44	2280
750	61	0.91	1.34	1.44	80	1.62	3142
1000	61	1.11	1.36	1.59	110	1.83	5794

Dimension and weights shown are nominal, unless otherwise indicated, and subject to manufacturing tolerances.



CONDUMEX



VULCANEL® MEDIUM VOLTAGE EPR SHIELDED POWER CABLES 5, 15, 25, 35 KV

16.VUL.SHLD.01

Size AWG/kcmil	Number of Strands	Conductor Diameter Inch	Insulation Thickness inch	Insul. Shld. Diameter inch	Jacket Thickness mils	Overall Diameter Inch	Net Weight lb/Mft
15kV 133% Insulation Level, 220 mils Insulation Thickness							
6	7	0.17	0.45	0.53	60	0.67	290
4	7	0.22	0.49	0.57	60	0.71	357
2	7	0.27	0.55	0.63	60	0.74	478
1/0	19	0.34	0.62	0.70	80	0.85	668
2/0	19	0.38	0.66	0.74	80	0.92	775
3/0	19	0.43	0.71	0.79	80	0.97	933
4/0	19	0.48	0.76	0.84	80	1.02	1071
250	37	0.52	0.81	0.90	80	1.07	1226
350	37	0.62	0.91	0.99	80	1.17	1560
500	37	0.74	1.03	1.13	80	1.32	2150
750	61	0.91	1.21	1.32	80	1.50	3027
1000	61	1.11	1.36	1.46	80	1.64	3845
25kV 100% Insulation Level, 260 mils Insulation Thickness							
1/0	19	0.34	0.92	1.00	80	1.18	894
2/0	19	0.38	0.96	1.04	80	1.22	1009
3/0	19	0.43	1.00	1.11	80	1.29	1181
4/0	19	0.48	1.06	1.16	80	1.34	1394
250	37	0.52	1.11	1.22	80	1.40	1537
350	37	0.62	1.21	1.31	80	1.49	1936
500	37	0.74	1.33	1.43	80	1.61	2516
750	61	0.91	1.51	1.61	110	1.85	3620
1000	61	1.11	1.66	1.80	110	2.04	4543
35kV 100% Insulation Level, 345 mils Insulation Thickness							
1/0	19	0.34	1.09	1.19	80	1.37	1041
2/0	19	0.38	1.13	1.23	80	1.41	1226
3/0	19	0.43	1.18	1.28	80	1.46	1380
4/0	19	0.48	1.23	1.33	80	1.51	1569
250	37	0.52	1.29	1.39	80	1.57	1750
350	37	0.62	1.38	1.49	80	1.67	2163
500	37	0.74	1.50	1.61	110	1.85	2893
750	61	0.91	1.68	1.83	110	2.07	3900
1000	61	1.11	1.83	1.97	110	2.21	4807

Dimension and weights shown are nominal, unless otherwise indicated, and subject to manufacturing tolerances.