

Aluminum MV-105 URD Power Cable 35KV

100% TR-XLPE Insulation, XLPE Jacket (Water Blocking)



APPLICATION:

Aluminum Conductor MV-105 35KV water blocked URD cable is primary used for underground power distribution for residential and commercial applications, installed in duct or direct burial. 35KV URD cable is suitable for use in wet or dry locations.

CONDUCTOR:

- Compact or compressed aluminum 1350 in Class B stranding

CONDUCTOR WATER BLOCK:

- Water block compound filled conductor or water swellable tape over the conductor

CONDUCTOR SHIELD:

- Semi-conducting compound extruded over the conductor

INSULATION:

- Naturally high dielectric strength TR-XLPE in 100% insulation level extruded over the conductor shield

INSULATION SHIELD:

- Semi-conducting compound extruded over the insulation, strippable

CONCENTRIC NEUTRAL WATER BLOCK:

- Semi-conducting water swellable tape over the insulation shield or water-swellable powder between the concentric neutral strands

CONCENTRIC NEUTRAL:

- Annealed bare copper wires helically wrapped over the insulation shield, in full, 1/3rd, 1/6th, 1/12th, or other conductivities of the conductor

JACKET:

- Sunlight resistant XLPE, black with three red stripes

STANDARDS:

Meets and exceeds the following standards as applicable:

- ASTM B230 Aluminum 1350–H19 Wire for Electrical Purposes
- ASTM B231 Concentric-Lay-Stranded Aluminum 1350 Conductors
- ASTM B400 Compact Round Concentric-Lay-Stranded Aluminum 1350 Conductors
- ASTM B3 Soft or Annealed Copper Wire
- UL 1072 Medium-Voltage Power Cables
- ICEA S-94-649 Concentric Neutral Cables Rated 5 Through 46KV
- AEIC CS8 Extruded Dielectric, Shielded Power Cables Rated 5 Through 46KV
- For 105°C continuous, 140°C emergency overload and 250°C short-circuit operation

CABLE MARKING:

- PRIORITY WIRE <AWG/kcmil (mm²)> AL <COMPACT> TR-XLPE 35KV 100% INSUL LEVEL 345 MILS <NO. x AWG> (UL) E364254 TYPE MV-105 XLPE WB SUN RES <LIGHTNING SYMBOL> <YEAR> <FACTORY ID> <SEQ FT>
- Marking on Extruded Insulation Shield: SEMICONDUCTIVE – REMOVE BEFORE TERMINATING OR SPLICING

Part Number	Conductor Size	Conductor Diameter	Insulation Thickness	Insulation Diameter	Concentric Neutral	Jacket Thickness	Overall Cable Diameter	Net Weight
	AWG/kcm	inches	inches	inches	No. x AWG	inches	inches	lbs/kft
Full Concentric Neutral								
1/0-0135KV345MALMV105-FN**	1/0	0.336	0.345	1.13	16 x #14	0.060	1.55	1007
2/0-0135KV345MALMV105-FN**	2/0	0.376	0.345	1.17	13 x #12	0.060	1.62	1151
3/0-0135KV345MALMV105-FN**	3/0	0.423	0.345	1.22	16 x #12	0.060	1.67	1274
4/0-0135KV345MALMV105-FN**	4/0	0.475	0.345	1.27	13 x #10	0.060	1.76	1494

All values are nominal and subject to correction.

**Non-stock item available for order

Note: Neutral wires in different constructions available



1-800-945-5542
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	AWG/kcm	inches	inches	inches	No. x AWG	inches	inches	lbs/kft
1/3rd Concentric Neutral								
1/0-0135KV345MALMV105-1/3	1/0	0.336	0.345	1.13	6 x #14	0.060	1.55	888
2/0-0135KV345MALMV105-1/3**	2/0	0.376	0.345	1.17	7 x #14	0.060	1.59	956
3/0-0135KV345MALMV105-1/3**	3/0	0.423	0.345	1.22	9 x #14	0.060	1.63	1048
4/0-0135KV345MALMV105-1/3	4/0	0.475	0.345	1.27	11 x #14	0.060	1.69	1153
250-0135KV345MALMV105-1/3**	250	0.520	0.345	1.32	13 x #14	0.060	1.73	1246
300-0135KV345MALMV105-1/3**	300	0.570	0.345	1.37	15 x #14	0.060	1.78	1360
350-0135KV345MALMV105-1/3	350	0.616	0.345	1.41	18 x #14	0.080	1.87	1524
400-0135KV345MALMV105-1/3**	400	0.659	0.345	1.46	20 x #14	0.080	1.89	1624
500-0135KV345MALMV105-1/3	500	0.736	0.345	1.53	16 x #12	0.080	2.02	1888
600-0135KV345MALMV105-1/3**	600	0.813	0.345	1.61	19 x #12	0.080	2.13	2158
750-0135KV345MALMV105-1/3	750	0.908	0.345	1.71	24 x #12	0.080	2.23	2470
1000-0135KV345MALMV105-1/3**	1000	1.060	0.345	1.86	20 x #10	0.080	2.43	3053
1250-0135KV345MALMV105-1/3**	1250	1.250	0.345	2.09	25 x #10	0.080	2.65	3671
1500-0135KV345MALMV105-1/3**	1500	1.370	0.345	2.21	30 x #10	0.080	2.77	4161
1/6th Concentric Neutral								
4/0-0135KV345MALMV105-1/6**	4/0	0.475	0.345	1.27	9 x #16	0.060	1.66	1061
350-0135KV345MALMV105-1/6**	350	0.616	0.345	1.41	14 x #16	0.080	1.82	1378
500-0135KV345MALMV105-1/6**	500	0.736	0.345	1.53	13 x #14	0.080	1.99	1700
750-0135KV345MALMV105-1/6**	750	0.908	0.345	1.71	19 x #14	0.080	2.20	2199
1000-0135KV345MALMV105-1/6	1000	1.060	0.345	1.86	16 x #12	0.080	2.39	2690
1250-0135KV345MALMV105-1/6	1250	1.250	0.345	2.09	20 x #12	0.080	2.61	3228
1500-0135KV345MALMV105-1/6**	1500	1.370	0.345	2.21	24 x #12	0.080	2.73	3640
1/12th Concentric Neutral								
4/0-0135KV345MALMV105-1/12**	4/0	0.475	0.345	1.27	6 x #16	0.060	1.66	1032
350-0135KV345MALMV105-1/12**	350	0.616	0.345	1.41	7 x #16	0.080	1.82	1345
500-0135KV345MALMV105-1/12**	500	0.736	0.345	1.53	10 x #16	0.080	1.94	1581
750-0135KV345MALMV105-1/12**	750	0.908	0.345	1.71	10 x #14	0.080	2.20	2093
1000-0135KV345MALMV105-1/12**	1000	1.060	0.345	1.86	13 x #14	0.080	2.35	2495
1250-0135KV345MALMV105-1/12**	1250	1.250	0.345	2.09	16 x #14	0.080	2.58	2987
1500-0135KV345MALMV105-1/12**	1500	1.370	0.345	2.21	30 x #16	0.080	2.69	3342
1500-0135KV345MALMV105-1/12**	1500	1.370	0.345	2.21	19 x #14	0.080	2.70	3358

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08-2024