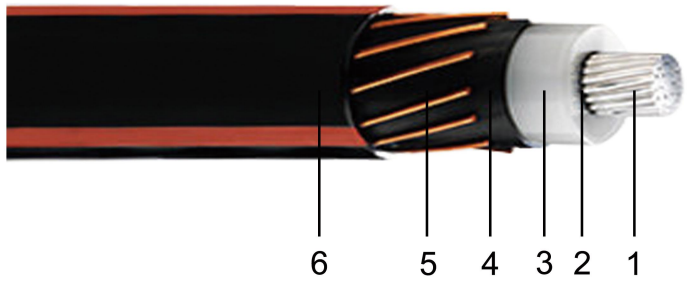
SPECIFICATION -35KV MV AL 100% TRXLPE CONCENTRIC NEUTRAL XLPE JACKET UL MV-105



CONSTRUCTION

1.**Conductor :** 1350 Aluminum, Compressed or Compressed Stranded with water-blocked filling compound

2.**Conductor Shield:** Semi-conducting Crosslinked Polyethylene.

3.**Insulation:** Tree Retardant Crosslinked Polyethylene (TRXLP)

4.**Insulation Shield:** Free Strippable Semi-conducting Crosslinked Polyethylene

5.**Concentric Neutral and water Block:** Copper Wires Helically Applied with different configuration. Water blocking powder applied over the insulation shield and around the neutral wires to resist longitudinal water penetration. Longitudinal water penetration shall be tested in accordance with the latest edition of ICEA T-34-664 except that the minimum requirements are 15 psig for 1 hour.

6.**Overall Jacket:**Black Crosslinked Polyethylene (XLPE) with Red Extruded Stripes.

HX CABLE USA

APPLICATIONS

Use in wet or dry locations, direct burial, underground ducts, and exposure to direct sunlight. Used for renewable projects with wind or solar applications and conductor temperature not to exceed 105ºC.

OPTIONS

- Without water-blocked filling compound conductor
- Conductor: aluminum
- Shield:copper
- Black XLPE jacket with no stripes
- Multiplex cables

STANDARDS

ICEA S-94-649 Standard for Concentric Neutral Cables Rated 5 - 46kV

UL 1072 Medium-Voltage Power Cables

AEIC CS-8

PRINTING INFORMATION

HUAXING CABLE E528306 AWG OR KCMIL AL 100% INSUL 345 MILS TR-XLPE

35kV MV-105 (SIZE OF CN) XLPE JACKET 0000FT 0001FT..... (MM/YY)

Conductor AL Size AWG or kcmil	Neutral Size	Neutral # of Wires (Size of Wires)	Conductor Nominal Diameter (in)	Insulation Minimum Diameter (in)	Insulation Maximum Diameter (in)	Jacket Nominal Diameter (in)	AL Weight lb/MFT	CU Weight lb/MFT	Net Weight lb/MFT
1/0	Full	16 (14)	0.3620	1.0450	1. 1450	1.426	99	201	994
1/0	2/3	11 (14)	0.3620	1.0450	1. 1450	1.409	99	137	902
1/0	1/2	8 (14)	0.3620	1.0450	1. 1450	1.409	99	102	86
1/0	1/3	6 (14)	0.3620	1.0450	1. 1450	1.409	99	76	83
2/0	Full	13 (12)	0.4060	1.0900	1.1900	1.444	125	256	1102
2/0	2/3	17 (14)	0.4060	1.0900	1.1900	1.4270	125	164	983
2/0	1/2	10 (14)	0.4060	1.0900	1.1900	1.4270	125	125	952
2/0	1/3	7 (14)	0.4060	1.0900	1.1900	1.4270	125	86	918
3/0	Full	16 (12)	0.4560	1.1400	1.2400	1.52	157	315	1224
3/0	2/3	11 (12)	0.4560	1.1400	1.2400	1.52	157	217	1141
3/0	1/2	13 (14)	0.4560	1.1400	1.2400	1.503	157	162	1055
3/0	1/3	9 (14)	0.4560	1.1400	1.2400	1.4770	157	109	1008
4/0	Full	20 (12)	0.5120	1. 1950	1.2950	1.576	199	394	1378
4/0	2/3	21 (14)	0.5120	1. 1950	1.2950	1.5590	199	262	1266
4/0	1/2	16 (14)	0.5120	1. 1950	1.2950	1.5590	199	199	1212
4/0	1/3	11 (14)	0.5120	1. 1950	1.2950	1.5590	199	137	1160
250	2/3	25 (14)	0.5580	1.2500	1.3500	1.6630	235	231	1473
250	1/2	19 (14)	0.5580	1.2500	1.3500	1.6630	235	237	1411
250	1/3	13 (14)	0.5580	1.2500	1.3500	1.6630	235	162	1346
250	1/6	10 (16)	0.5580	1.2500	1.3500	1.6370	235	64	1216
350	2/3	22 (12)	0.6610	1.3550	1.4550	1.8030	329	434	1826
350	1/2	26 (14)	0.6610	1.3550	1.4550	1.7700	329	324	1670
350	1/3	18 (14)	0.6610	1.3550	1.4550	1.7700	329	224	1588
350	1/6	14 (16)	0.6610	1.3550	1.4550	1.7430	329	109	1441

Conductor AL Size AWG or kcmil	Neutral Size	Neutral # of Wires (Size of Wires)	Conductor Nominal Diameter (in)	Insulation Minimum Diameter (in)	Insulation Maximum Diameter (in)	Jacket Nominal Diameter (in)	AL Weight lb/MFT	CU Weight lb/MFT	Net Weight lb/MFT
500	2/3	31 (12)	0.7890	1.4800	1.5800	1.9270	469	611	2227
500	1/2	24 (12)	0.7890	1.4800	1.5800	1.9270	469	473	2108
500	1/3	16 (12)	0.7890	1.4800	1.5800	1.9270	469	315	2219
500	1/6	13 (14)	0.7890	1.4800	1.5800	1.894	469	162	1746
750	1/2	22 (10)	0.9680	1.6700	1.7700	2.1880	704	691	2851
750	1/3	15 (10)	0.9680	1.6700	1.7700	2. 1670	704	471	2573
750	1/6	19 (14)	0.9680	1.6700	1.7700	2. 1120	704	237	2304
750	1/12	15 (16)	0.9680	1.6700	1.7700	2.0860	704	120	2142
1000	1/3	20 (10)	1. 1170	1.8150	1.9200	2.3390	939	628	3092
1000	1/6	16 (12)	1. 1170	1.8150	1.9200	2.2970	939	315	2823
1000	1/9	17 (14)	1. 1170	1.8150	1.9200	2.2630	939	212	2381
1000	1/12	13 (14)	1. 1170	1.8150	1.9200	2.2630	939	162	2615
1250	1/3	25 (10)	1.250	1.960	2.065	2.4840	1173	786	3717
1250	1/6	20 (12)	1.250	1.960	2.065	2.4420	1173	394	3274
1250	1/9	21 (14)	1.250	1.960	2.065	2.4420	1173	262	2769
1250	1/12	16 (14)	1.250	1.960	2.065	2.4080	1173	199	2998
1500	1/3	30 (10)	1.370	2.1000	2.2050	2.6540	1408	944	4314
1500	1/6	24 (12)	1.370	2. 1000	2.2050	2.6120	1408	473	3798
1500	1/12	19 (14)	1.370	2.1000	2.2050	2.5780	1408	238	3513