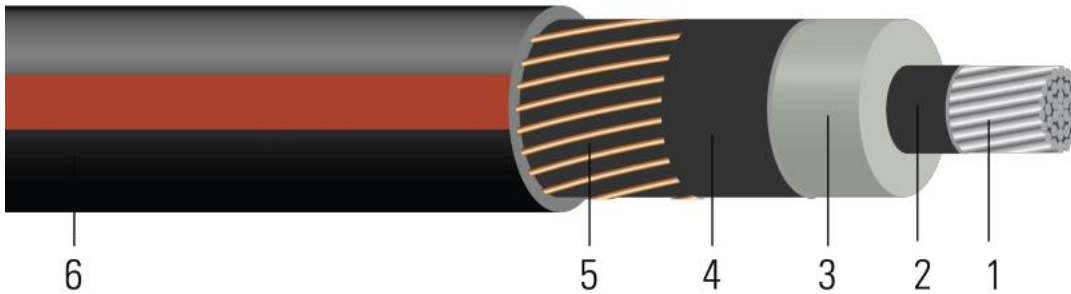


35 kV MV-105 CABLE

Single Core Aluminum Conductor, 100% TR-XLPE Insulation Level,
1/3 Concentric Neutral Copper Wire Shield, LLDPE Jacket.



Applications

Used as feeder circuit, in electric utility generating stations, for distribution circuits, and for feeders or branch circuits in industrial and commercial installations. It may be installed in wet or dry locations, indoors or outdoors (exposed to sunlight), in any raceway or underground duct, directly buried if installed in a system with a grounding conductor. Low temperature to -40C.

Construction:

1. Conductor: Moisture Blocked Class B Compressed Aluminum AL-1350 per ASTM B231
2. Conductor Shield: DOW HFDA-0587 BK Semi-Conducting Cross-linked Copolymer
3. Insulation: DOW HFDC 4202-EC TR-XLPE 345 Mils Tree Retardant Cross-linked Polyethylene 100% insulation level
4. Insulation Shield: DOW HFDA-0693 Strippable Semi-Conducting Cross-linked Copolymer
5. Concentric Neutral: Helically applied soft drawn bare copper one-third concentric neutral
6. Overall Jacket: Linear Low Density Polyethylene (LLDPE) Jacket, black with red extruded stripes

Specification:

ASTM B231 Standard Specification for Concentric-Lay-Stranded Aluminum 1350 Conductors

CSA C68.5 Standard

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

AEIC CS-8 Specification for extruded dielectric shielded power cables rated for 5 through 46KV

CSA Listed

Color: Black color with red color strip.

Data sheet

No.	CHARACTERISTICS	UNIT	DATA
1	Type of the cable		MV-105 Cable
2	Rated Voltage	kV	35
3	Size	AWG	4/0
4	Standard Applied		ICEA S-94-649/CSA C68.5
5.1	Power Cores		
	Cross sectional area	AWG	4/0
	Material		Moisture Blocked Class B Compressed Aluminum
	Diameter of Conductor	mm	12.0
5.2	Conductor Screen		
	Material		DOW HFDA-0587 BK
	Nominal thickness		0.51
5.3	Power Insulation		
	Material		DOW HFDC 4202-EC 100% TR-XLPE
	Nominal thickness	mm	8.76
5.4	Insulation Screen		
	Material		DOW HFDA-0693
	Nominal thickness		1.27
5.5	Concentric Neutral		1/3 Concentric Neutral
	Material		Copper Wire
	Nominal size	AWG	11x14AWG
5.6	Overall Jacket		
	Material		LLDPE
	Nominal thickness	mm	1.4
5.7	OD of the finished cable (Approx.)	mm	38.9
6	Weight of the finished cable (Approx.)	kg/km	1,593
7	Package		Wooden drum

No.	CHARACTERISTICS	UNIT	DATA
1	Type of the cable		MV-105 Cable
2	Rated Voltage	kV	35
3	Size	KCMIL	750
4	Standard Applied		ICEA S-94-649/CSA C68.5
5.1	Power Cores		
	Cross sectional area	KCMIL	750
	Material		Moisture Blocked Class B Compressed Aluminum
	Diameter of Conductor	mm	22.6
5.2	Conductor Screen		
	Material		DOW HFDA-0587 BK
	Nominal thickness		0.51
5.3	Power Insulation		
	Material		DOW HFDC 4202-EC 100% TR-XLPE
	Nominal thickness	mm	8.76
5.4	Insulation Screen		
	Material		DOW HFDA-0693
	Nominal thickness		1.27
5.5	Concentric Neutral		1/3 Concentric Neutral
	Material		Copper Wire
	Nominal size	AWG	15x10AWG
5.6	Overall Jacket		
	Material		LLDPE
	Nominal thickness		2.03
5.7	OD of the finished cable (Approx.)	mm	53.9
6	Weight of the finished cable (Approx.)	kg/km	3,664
7	Package		Wooden drum

No.	CHARACTERISTICS	UNIT	DATA
1	Type of the cable		MV-105 Cable
2	Rated Voltage	kV	35
3	Size	KCMIL	1000
4	Standard Applied		ICEA S-94-649/CSA C68.5
5.1	Power Cores		
	Cross sectional area	KCMIL	1000
	Material		Moisture Blocked Class B Compressed Aluminum
	Diameter of Conductor	mm	27.8
5.2	Conductor Screen		
	Material		DOW HFDA-0587 BK
	Nominal thickness		0.51
5.3	Power Insulation		
	Material		DOW HFDC 4202-EC 100% TR-XLPE
	Nominal thickness	mm	8.76
5.4	Insulation Screen		
	Material		DOW HFDA-0693
	Nominal thickness		1.65
5.5	Concentric Neutral		1/3 Concentric Neutral
	Material		Copper Wire
	Nominal size	AWG	16x9AWG
5.6	Overall Jacket		
	Material		LLDPE
	Nominal thickness		2.03
5.7	OD of the finished cable (Approx.)	mm	59.7
6	Weight of the finished cable (Approx.)	kg/km	4,511
7	Package		Wooden drum

No.	CHARACTERISTICS	UNIT	DATA
1	Type of the cable		MV-105 Cable
2	Rated Voltage	kV	35
3	Size	KCMIL	1250
4	Standard Applied		ICEA S-94-649/CSA C68.5
5.1	Power Cores		
	Cross sectional area	KCMIL	1250
	Material		Moisture Blocked Class B Compressed Aluminum
	Diameter of Conductor	mm	31.2
5.2	Conductor Screen		
	Material		DOW HFDA-0587 BK
	Nominal thickness		0.51
5.3	Power Insulation		
	Material		DOW HFDC 4202-EC 100% TR-XLPE
	Nominal thickness	mm	8.76
5.4	Insulation Screen		
	Material		DOW HFDA-0693
	Nominal thickness		1.65
5.5	Concentric Neutral		1/3 Concentric Neutral
	Material		Copper Wire
	Nominal size	AWG	20x9AWG
5.6	Overall Jacket		
	Material		LLDPE
	Nominal thickness		2.03
5.7	OD of the finished cable (Approx.)	mm	63.2
6	Weight of the finished cable (Approx.)	kg/km	5,330
7	Package		Wooden drum