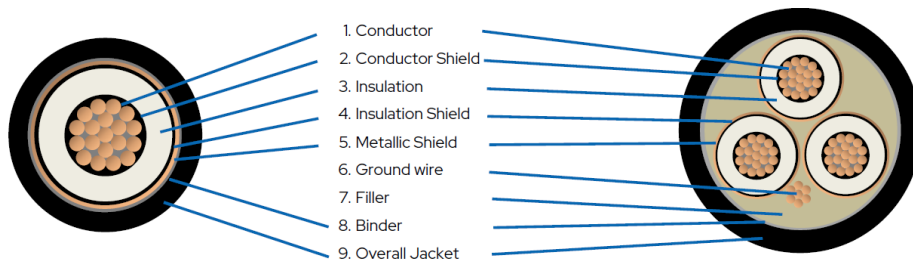


35kV CU EPR 133% IL CTS PVC TYPE MV-105 – Silicone Free

Type MV-105 Copper Conductor, Ethylene Propylene Rubber (EPR) 133% Insulation Level, Copper Tape Shield, Polyvinyl Chloride (PVC) Jacket.



CONSTRUCTION:

- | | |
|-----------------------------|--|
| 1. Conductor | Class B compressed stranded bare copper per ASTM B3 and ASTM B8 |
| 2. Conductor Shield | Semi-conducting cross-linked copolymer |
| 3. Insulation | No Lead Ethylene Propylene Rubber (NL-EPR) 133% Insulation Level |
| 4. Insulation Shield | Stripable semi-conducting cross-linked copolymer |
| 5. Metallic Shield | Copper tape helically wrapped 5 mils copper tape with 25% overlap |
| 6. Ground Wire | Class B compressed or compact stranded bare copper per ASTM B3 and ASTM B8 |
| 7. Filler | Suitable filler |
| 8. Binder | Glass tape |
| 9. Overall Jacket | Polyvinyl Chloride (PVC) |

APPLICATIONS AND FEATURES:

35kV cables are suited for use in wet and dry areas, conduits, ducts, direct burial, trays and where superior electrical properties are desired. These cables are capable of operating continuously at the conductor temperature not in excess of 105°C for normal operation, 140°C for emergency overload, and 250°C for short circuit conditions.

SPECIFICATIONS:

- ASTM B3 Soft or annealed copper
- ASTM B8 Concentric-lay-standard copper
- UL 1072 Medium Voltage Power Cables
- ICEA S-97-682 Utility Shielded Power Cables Rated 5 through 46kV
- UL 1685 CT Flame Exposure Test
- UV Resistant
- Outdoor Rated

Cable Information: 1 Core (133%) - Test Voltage 84kV

DWC Part No.	Size (AWG/MCM)	Conductor		Insulation		Jacket	Cable Diameter (Approx) [inches]	Bending Radius (min) [inches]	Cable Weight [lbs/1000ft]	Max. Conductor Resistance (20°C)Ω/km
		No	Diameter [inches]	Thickness (Nom) [mils]	Diameter (Approx) [inches]	Thickness (Nom) [mils]				
1/00135KVSEPRPVC	1/0	19	0.358	420	1.249	80	1.534	15.4	1330	0.3354
2/00135KVSEPRPVC	2/0	19	0.398	420	1.288	80	1.578	15.8	1455	0.266
3/00135KVSEPRPVC	3/0	19	0.449	420	1.34	80	1.629	16.3	1620	0.211
4/00135KVSEPRPVC	4/0	19	0.504	420	1.395	80	1.685	16.9	1839	0.1673
2500135KVSEPRPVC	250	37	0.551	420	1.435	110	1.795	18.0	2126	0.1416
3500135KVSEPRPVC	350	37	0.649	420	1.541	110	1.894	19.0	2545	0.1011
5000135KVSEPRPVC	500	37	0.776	420	1.675	110	2.028	20.3	3121	0.0708
7500135KVSEPRPVC	750	61	0.953	420	1.859	110	2.213	22.2	4112	0.0472

Cable Information: 3 Core (133%) (Compress Conductor) - Test Voltage 84kV

DWC Part No.	Size (AWG/MCM)	Conductor		Insulation		Jacket	Ground Size (AWG)	Cable Diameter (Approx) [inches]	Bending Radius (min) [inches]	Cable Weight [lbs/1000ft]	Max. Conductor Resistance (20°C)Ω/km
		No	Diameter [inches]	Thickness (Nom) [mils]	Diameter (Approx) [inches]	Thickness (Nom) [mils]					
4/00135KVSEPRPVC	4/0	19	0.504	420	1.395	140	3	3.504	350	6269	0.1673

Cable Information: 1 Core (133%) - Test Voltage 84kV

DWC Part No.	Size (AWG/MCM)	Conductor		Insulation		Jacket	Cable Diameter (Approx) [mm]	Bending Radius (min) [mm]	Cable Weight [lbs/1000ft]	Max. Conductor Resistance (20°C)Ω/km
		No	Diameter [mm]	Thickness (Nom) [mm]	Diameter (Approx) [mm]	Thickness (Nom) [mm]				
1/00335KVSEPRPVC	1/0	19	9.1	10.668	31.74	2.032	39.1	391	1330	0.3354
2/00335KVSEPRPVC	2/0	19	10.1	10.668	32.74	2.032	40.1	401	1455	0.266
3/00335KVSEPRPVC	3/0	19	11.4	10.668	34.04	2.032	41.4	414	1620	0.211
4/00335KVSEPRPVC	4/0	19	12.8	10.668	35.44	2.032	42.8	428	1839	0.1673
2500335KVSEPRPVC	250	37	14.0	10.668	36.64	2.794	45.6	456	2126	0.1416
3500335KVSEPRPVC	350	37	16.5	10.668	39.14	2.794	48.1	481	2545	0.1011
5000335KVSEPRPVC	500	37	19.7	10.668	42.54	2.794	51.5	515	3121	0.0708
7500335KVSEPRPVC	750	61	24.2	10.668	47.24	2.794	56.2	562	4112	0.0472

Cable Information: 3 Core (133%) (Compress Conductor) - Test Voltage 44kV

DWC Part No.	Size (AWG/MCM)	Conductor		Insulation		Jacket	Ground Size (AWG)	Cable Diameter (Approx) [mm]	Bending Radius (min) [mm]	Cable Weight [lbs/1000ft]	Max. Conductor Resistance (20°C)Ω/km
		No	Diameter [mm]	Thickness (Nom) [mm]	Diameter (Approx) [mm]	Thickness (Nom) [mm]					
4/00335KVSEPRPVC	4/0	19	12.8	10.668	35.44	3.556	3	89	890	6269	0.1673

Ampacities - According to NEC

Size	Isolated in Air [NEC Table 310.60(C)(60)]	Directly Buried [NEC TABLE 310.60(C)(81)]	Underground Electrical Ducts [NEC TABLE 310.60(C)(77)]
1/0 AWG	290	295	215
2/0 AWG	330	335	245
3/0 AWG	380	380	275
4/0 AWG	445	435	315
250 MCM	490	475	345
350 MCM	605	575	415
500 MCM	755	700	500
750 MCM	970	865	610

Product details and specifications are subject to manufacturing variations and accepted industry tolerances. Please contact your DWC Account Manager with questions or to confirm specific product requirements.