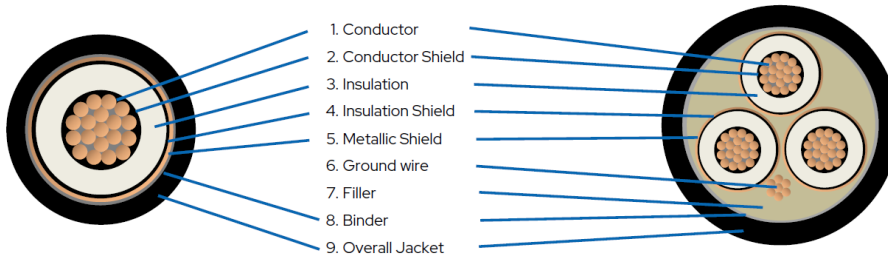


## 35kV CU EPR 133% IL CTS PVC TYPE MV-105 – Silicone Free

Type MV-105 Copper Conductor, No Lead Ethylene Propylene Rubber (NL-EPR) 133% Insulation Level, Copper Tape Shield, Polyvinyl Chloride (PVC) Jacket.



### CONSTRUCTION:

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

### APPLICATIONS AND FEATURES:

35kV cables are suited for use in wet and dry areas, conduits, ducts, direct burial, trays and 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.s.

### 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%) (Compress Conductor) - 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]				
1/00135KVEPRPVC	1/0	19	0.358	420	1.249	80	1.534	15.4	1330	0.335
2/00135KVEPRPVC	2/0	19	0.398	420	1.288	80	1.578	15.8	1455	0.266
3/00135KVEPRPVC	3/0	19	0.449	420	1.34	80	1.629	16.3	1620	0.211
4/00135KVEPRPVC	4/0	19	0.504	420	1.395	80	1.685	16.9	1839	0.167
2500135KVEPRPVC	250	37	0.551	420	1.435	110	1.795	18.0	2126	0.141
3500135KVEPRPVC	350	37	0.650	420	1.541	110	1.894	19.0	2545	0.101
5000135KVEPRPVC	500	37	0.776	420	1.675	110	2.028	20.3	3121	0.0708
7500135KVEPRPVC	750	61	0.953	420	1.859	110	2.213	22.2	4112	0.0472
10000135KVEPRPVC	1000	61	1.098	420	2.005	110	2.358	23.6	5093	0.0354

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]					
1/00335KVEPRPVC	1/0	19	0.358	420	1.249	140	4	3.208	32.08	4771	0.335
2/00335KVEPRPVC	2/0	19	0.398	420	1.288	140	4	3.287	32.87	5183	0.266
3/00335KVEPRPVC	3/0	19	0.449	420	1.34	140	3	3.405	34.05	5738	0.211
4/00335KVEPRPVC	4/0	19	0.504	420	1.395	140	3	3.504	35.04	6269	0.167
2500335KVEPRPVC	250	37	0.551	420	1.435	140	2	3.641	36.41	7008	0.141
3500335KVEPRPVC	350	37	0.650	420	1.541	140	2	3.858	38.58	8335	0.101
5000335KVEPRPVC	500	37	0.776	420	1.675	140	1	4.114	41.14	15918	0.0708

Cable Information: 1 Core (133%) (Compress Conductor) - 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]	Thickness (Nom)[mm]				
1/00135KVEPRPVC	1/0	19	9.1	10.668	31.74	2.032	39.1	391	1330	0.335	
2/00135KVEPRPVC	2/0	19	10.1	10.668	32.74	2.032	40.1	401	1455	0.266	
3/00135KVEPRPVC	3/0	19	11.4	10.668	34.04	2.032	41.4	414	1620	0.211	
4/00135KVEPRPVC	4/0	19	12.8	10.668	35.44	2.032	42.8	428	1839	0.167	
2500135KVEPRPVC	250	37	14.0	10.668	36.64	2.794	45.6	456	2126	0.141	
3500135KVEPRPVC	350	37	16.5	10.668	39.14	2.794	48.1	481	2545	0.101	
5000135KVEPRPVC	500	37	19.7	10.668	42.54	2.794	51.5	515	3121	0.0708	
7500135KVEPRPVC	750	61	24.2	10.668	47.24	2.794	56.2	562	4112	0.0472	
10000135KVEPRPVC	1000	61	27.9	10.668	50.94	2.794	59.9	599	5093	0.0354	

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) [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]	Thickness (Nom) [mm]					
1/00335KVEPRPVC	1/0	19	9.1	10.668	31.74	3.556	4	81.5	815	4771	0.335	
2/00335KVEPRPVC	2/0	19	10.1	10.668	32.74	3.556	4	83.5	835	5183	0.266	
3/00335KVEPRPVC	3/0	19	11.4	10.668	34.04	3.556	3	86.5	865	5738	0.211	
4/00335KVEPRPVC	4/0	19	12.8	10.668	35.44	3.556	3	89	890	6269	0.167	
2500335KVEPRPVC	250	37	14.0	10.668	36.64	3.556	2	92.5	925	7008	0.141	
3500335KVEPRPVC	350	37	16.5	10.668	39.14	3.556	2	98.0	980	8335	0.101	
5000335KVEPRPVC	500	37	19.7	10.668	42.54	3.556	1	104.5	1050	15918	0.0708	

Cable Information: 1 Core (133%) (Compact Conductor) - 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]				
1/00135KVEPRPVCCPT	1/0	19	0.339	420	1.229	80	1.515	15.15	1327	0.335
2/00135KVEPRPVCCPT	2/0	19	0.382	420	1.273	80	1.555	15.55	1459	0.266
3/00135KVEPRPVCCPT	3/0	19	0.43	420	1.320	80	1.614	16.14	1616	0.211
4/00135KVEPRPVCCPT	4/0	19	0.481	420	1.371	80	1.653	16.53	1794	0.167
2500135KVEPRPVCCPT	250	37	0.524	420	1.422	110	1.771	17.71	2096	0.141
3500135KVEPRPVCCPT	350	37	0.619	420	1.517	110	1.870	18.7	2512	0.101
5000135KVEPRPVCCPT	500	37	0.741	420	1.639	110	1.988	19.88	3109	0.0708
7500135KVEPRPVCCPT	750	61	0.91	420	1.816	110	2.165	21.65	4094	0.0472
10000135KVEPRPVCCPT	1000	61	1.044	420	1.950	110	2.303	23.03	5018	0.0354

Cable Information: 3 Core (133%) (Compact 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]					
1/00335KVEPRPVCCPT	1/0	19	0.339	420	1.229	140	4	3.169	31.69	4700	0.335
2/00335KVEPRPVCCPT	2/0	19	0.382	420	1.273	140	4	3.248	32.48	5129	0.266
3/00335KVEPRPVCCPT	3/0	19	0.43	420	1.320	140	3	3.366	33.66	5677	0.211
4/00335KVEPRPVCCPT	4/0	19	0.481	420	1.371	140	3	3.464	34.64	6285	0.167
2500335KVEPRPVCCPT	250	37	0.524	420	1.422	140	2	3.582	35.82	6910	0.141
3500335KVEPRPVCCPT	350	37	0.619	420	1.517	140	2	3.779	37.79	8219	0.101
5000335KVEPRPVCCPT	500	37	0.741	420	1.639	140	1	4.055	40.55	10178	0.0708

Cable Information: 1 Core (133%) (Compact Conductor) - 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]				
1/00135KVEPRPVCCPT	1/0	19	8.6	10.668	31.24	2.032	38.5	385	1327	0.335
2/00135KVEPRPVCCPT	2/0	19	9.7	10.668	32.34	2.032	39.5	395	1459	0.266
3/00135KVEPRPVCCPT	3/0	19	10.9	10.668	33.54	2.032	41.0	410	1616	0.211
4/00135KVEPRPVCCPT	4/0	19	12.2	10.668	34.84	2.032	42.0	420	1794	0.167
2500135KVEPRPVCCPT	250	37	13.3	10.668	36.14	2.794	45.0	450	2096	0.141
3500135KVEPRPVCCPT	350	37	15.7	10.668	38.54	2.794	47.5	475	2512	0.101
5000135KVEPRPVCCPT	500	37	18.8	10.668	41.64	2.794	50.5	505	3109	0.0708
7500135KVEPRPVCCPT	750	61	23.1	10.668	46.14	2.794	55.0	550	4094	0.0472
10000135KVEPRPVCCPT	1000	61	26.5	10.668	49.54	2.794	58.5	585	5018	0.0354

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

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]					
1/00335KVEPRPVCCPT	1/0	19	8.6	10.668	31.24	3.556	4	80.5	805	4700	0.335
2/00335KVEPRPVCCPT	2/0	19	9.7	10.668	32.34	3.556	4	82.5	825	5129	0.266
3/00335KVEPRPVCCPT	3/0	19	10.9	10.668	33.54	3.556	3	85.5	855	5677	0.211
4/00335KVEPRPVCCPT	4/0	19	12.2	10.668	34.84	3.556	3	88.0	880	6285	0.167
2500335KVEPRPVCCPT	250	37	13.3	10.668	36.14	3.556	2	91.0	910	6910	0.141
3500335KVEPRPVCCPT	350	37	15.7	10.668	38.54	3.556	2	96.0	960	8219	0.101
5000335KVEPRPVCCPT	500	37	18.8	10.668	41.64	3.556	1	103.0	1030	10178	0.0708

Ampacities - According to NEC

Size	Isolated in Air [NEC TABLE 310.60(C) (69)]	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	335	335	245
3/0 AWG	385	380	275
4/0 AWG	445	435	315
250 MCM	495	475	345
350 MCM	610	575	415
500 MCM	765	700	500
750 MCM	990	865	610
1000 MCM	1185	1005	690

Maximum Side Pressure, Pull Tensions

Size	Maximum Side Pressure [lbs/ft]	Pull Tensions [lbs]
1/0 AWG	300	845
2/0 AWG	300	1065
3/0 AWG	300	1342
4/0 AWG	300	1693
250 MCM	300	2000
350 MCM	300	2800
500 MCM	300	4000
750 MCM	300	6000
1000 MCM	300	8000

*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.*