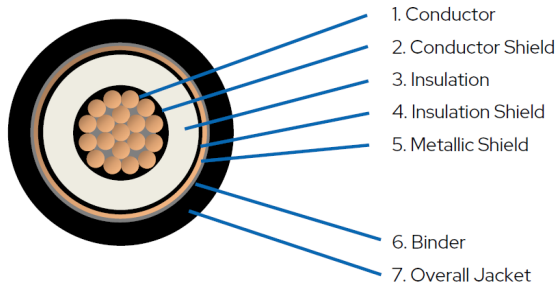


5kV CU EPR 133% IL CTS PVC TYPE MV-105 – Silicone Free

Type MV-105 Copper Conductor, Ethylene Propylene Rubber (EPR) 5kV 133% Insulation Level, Copper Tape Shield, Polyvinyl Chloride (PVC) Jacket.



CONSTRUCTION:

1. Conductor	Class B compressed or compact 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. Binder	Glass tape
7. Overall Jacket	Polyvinyl Chloride (PVC)

APPLICATIONS AND FEATURES:

5kV 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%) (Compress Conductor) - Test Voltage 23kV

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]	Thickness (Nom)[mils]				
1/0015KVSEPRPVC	1/0	19	0.362	115	0.654	80	80	0.945	9.5	707	0.335
2/0015KVSEPRPVC	2/0	19	0.405	115	0.693	80	80	0.984	9.9	817	0.266
3/0015KVSEPRPVC	3/0	19	0.456	115	0.744	80	80	1.024	10.3	955	0.211
4/0015KVSEPRPVC	4/0	19	0.512	115	0.799	80	80	1.083	10.9	1211	0.167
250015KVSEPRPVC	250	37	0.558	115	0.854	80	80	1.142	11.5	1277	0.141
350015KVSEPRPVC	350	37	0.661	115	0.953	80	80	1.24	12.4	1644	0.101
500015KVSEPRPVC	500	37	0.789	115	1.079	80	80	1.358	13.6	2180	0.0708
750015KVSEPRPVC	750	61	0.968	115	1.264	80	80	1.555	15.6	3076	0.0472

Cable Information: 1 Core (133%) (Compress Conductor) - Test Voltage 23kV

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]				
1/0015KVSEPRPVC	1/0	19	9.2	2.92	16.6	2.032	2.032	24.0	240	707	0.335
2/0015KVSEPRPVC	2/0	19	10.3	2.92	17.6	2.032	2.032	25.0	250	817	0.266
3/0015KVSEPRPVC	3/0	19	11.6	2.92	18.9	2.032	2.032	26.0	260	955	0.211
4/0015KVSEPRPVC	4/0	19	13.0	2.92	20.3	2.032	2.032	27.5	275	1211	0.167
250015KVSEPRPVC	250	37	14.2	2.92	21.7	2.032	2.032	29.0	290	1277	0.141
350015KVSEPRPVC	350	37	16.8	2.92	24.2	2.032	2.032	31.5	315	1644	0.101
500015KVSEPRPVC	500	37	20.0	2.92	27.4	2.032	2.032	34.5	345	2180	0.0708
750015KVSEPRPVC	750	61	24.6	2.92	32.1	2.032	2.032	39.5	395	3076	0.0472

Cable Information: 1 Core (133%) (Compact Conductor) - Test Voltage 23kV

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]				
1/0015KVSEPRPVC	1/0	19	0.339	115	0.634	80	0.925	9.3	696	0.335
2/0015KVSEPRPVC	2/0	19	0.382	115	0.677	80	0.965	9.7	809	0.266
3/0015KVSEPRPVC	3/0	19	0.43	115	0.724	80	1.004	10.1	944	0.211
4/0015KVSEPRPVC	4/0	19	0.481	115	0.776	80	1.063	10.7	1108	0.167
250015KVSEPRPVC	250	37	0.524	115	0.827	80	1.102	11.1	1262	0.141
350015KVSEPRPVC	350	37	0.619	115	0.921	80	1.201	12.1	1627	0.101
500015KVSEPRPVC	500	37	0.741	115	1.043	80	1.319	13.2	2161	0.0708
750015KVSEPRPVC	750	61	0.91	115	1.22	80	1.496	15.0	3052	0.0472

Cable Information: 1 Core (133%) (Compact Conductor) - Test Voltage 23kV

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]				
1/0015KVSEPRPVC	1/0	19	8.6	2.92	16.1	2.032	23.5	235	696	0.335
2/0015KVSEPRPVC	2/0	19	9.7	2.92	17.2	2.032	24.5	245	809	0.266
3/0015KVSEPRPVC	3/0	19	10.9	2.92	18.4	2.032	25.5	255	944	0.211
4/0015KVSEPRPVC	4/0	19	12.2	2.92	19.7	2.032	27	270	1108	0.167
250015KVSEPRPVC	250	37	13.3	2.92	21	2.032	28	280	1262	0.141
350015KVSEPRPVC	350	37	15.7	2.92	23.4	2.032	30.5	305	1627	0.101
500015KVSEPRPVC	500	37	18.8	2.92	26.5	2.032	33.5	335	2161	0.0708
750015KVSEPRPVC	750	61	23.1	2.92	31	2.032	38	380	3052	0.0472

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	320	210
2/0 AWG	330	365	235
3/0 AWG	385	415	270
4/0 AWG	445	465	310
250 MCM	495	510	345
350 MCM	615	615	415
500 MCM	775	745	505
750 MCM	1000	910	630

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

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.