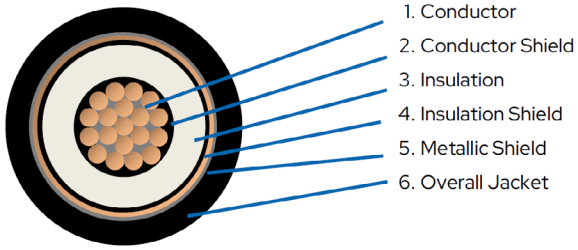
DISTRIBUTOR WIRE & CABLE

25kV Shld EPR/PVC

25kV CU EPR 133% IL CTS PVC TYPE MV-105 – Silicone Free

Type MV-105 Copper Conductor, Ethylene Propylene Rubber (EPR) 25kV 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. Overall Jacket	Polyvinyl Chloride (PVC)
7. Binder	Glass tape

APPLICATIONS AND FEATURES:

25kV 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

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Cable Information: 1 Core (133%) - Test Voltage 64kV

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]				
1/00125KVSEPRPVC	1/0	19	0.358	320	1.046	80	1.339	13.39	1090	0.3354
2/00125KVSEPRPVC	2/0	19	0.398	320	1.085	80	1.378	13.78	1212	0.266
3/00125KVSEPRPVC	3/0	19	0.449	320	1.136	80	1.437	14.37	1364	0.211
4/00125KVSEPRPVC	4/0	19	0.504	320	1.191	80	1.496	14.96	1546	0.1673
2500125KVSEPRPVC	250	37	0.551	320	1.246	80	1.555	15.55	1717	0.1416
3500125KVSEPRPVC	350	37	0.649	320	1.345	80	1.654	16.54	2112	0.1011
5000125KVSEPRPVC	500	37	0.776	320	1.471	110	1.831	18.31	2804	0.0708
7500125KVSEPRPVC	750	61	0.953	320	1.656	110	2.028	20.28	3765	0.0472
10000125KVSEPRPVC	1000	61	1.098	320	1.802	110	2.165	21.65	4676	0.0354

Cable Information: 1 Core (133%) - Test Voltage 64kV

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]				
1/00125KVSEPRPVC	1/0	19	9.1	8.128	26.56	2.032	34.0	340	1090	0.3354
2/00125KVSEPRPVC	2/0	19	10.1	8.128	27.56	2.032	35.0	350	1212	0.266
3/00125KVSEPRPVC	3/0	19	11.4	8.128	28.86	2.032	36.5	365	1364	0.211
4/00125KVSEPRPVC	4/0	19	12.8	8.128	30.26	2.032	38.0	380	1546	0.1673
2500125KVSEPRPVC	250	37	14.0	8.128	31.66	2.032	39.5	395	1717	0.1416
3500125KVSEPRPVC	350	37	16.5	8.128	34.16	2.032	42.0	420	2112	0.1011
5000125KVSEPRPVC	500	37	19.7	8.128	37.36	2.794	46.5	465	2804	0.0708
7500125KVSEPRPVC	750	61	24.2	8.128	42.06	2.794	51.5	515	3765	0.0472
10000125KVSEPRPVC	1000	61	27.9	8.128	45.76	2.794	55.0	550	4676	0.0354

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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
1000 MCM	1160	1005	690

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.