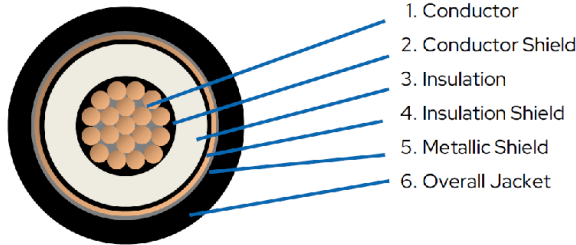


25kV CU EPR 133% IL CTS PVC TYPE MV-105 – Silicone Free

Type MV-105 Copper Conductor, No Lead Ethylene Propylene Rubber (NL-EPR) 25kV 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. 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

Cable Information: 1 Core (133%) (Compress Conductor) - 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]				
1/00125KVEPRPVC	1/0	19	0.358	320	1.046	80	1.339	13.39	1090	0.335
2/00125KVEPRPVC	2/0	19	0.398	320	1.085	80	1.378	13.78	1212	0.266
3/00125KVEPRPVC	3/0	19	0.449	320	1.136	80	1.437	14.37	1364	0.211
4/00125KVEPRPVC	4/0	19	0.504	320	1.191	80	1.496	14.96	1546	0.167
2500125KVEPRPVC	250	37	0.551	320	1.246	80	1.555	15.55	1717	0.141
3500125KVEPRPVC	350	37	0.649	320	1.345	80	1.654	16.54	2112	0.101
5000125KVEPRPVC	500	37	0.776	320	1.471	110	1.831	18.31	2804	0.0708
7500125KVEPRPVC	750	61	0.953	320	1.656	110	2.028	20.28	3765	0.0472
10000125KVEPRPVC	1000	61	1.098	320	1.802	110	2.165	21.65	4676	0.0354

Cable Information: 3 Core (133%) (Compress Conductor) - Test Voltage 64kV

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]					
1/00325KVEPRPVC	1/0	19	0.358	320	1.085	110	4	2.716	27.16	3707	0.335
2/00325KVEPRPVC	2/0	19	0.398	320	1.136	140	4	2.854	28.54	4259	0.266
3/00325KVEPRPVC	3/0	19	0.449	320	1.191	140	3	2.952	29.52	4793	0.211
4/00325KVEPRPVC	4/0	19	0.504	320	1.246	140	3	3.07	30.7	5388	0.167
2500325KVEPRPVC	250	37	0.551	320	1.345	140	2	3.188	31.88	5958	0.141
3500325KVEPRPVC	350	37	0.650	320	1.471	140	2	3.425	34.25	7274	0.101
5000325KVEPRPVC	500	37	0.776	420	1.675	140	1	3.70	37	9168	0.0708

Cable Information: 1 Core (133%) (Compress Conductor) - 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]					
1/00125KVEPRPVC	1/0	19	9.1	8.128	26.56	2.032		34.0	340	1090	0.335
2/00125KVEPRPVC	2/0	19	10.1	8.128	27.56	2.032		35.0	350	1212	0.266
3/00125KVEPRPVC	3/0	19	11.4	8.128	28.86	2.032		36.5	365	1364	0.211
4/00125KVEPRPVC	4/0	19	12.8	8.128	30.26	2.032		38.0	380	1546	0.167
2500125KVEPRPVC	250	37	14.0	8.128	31.66	2.032		39.5	395	1717	0.141
3500125KVEPRPVC	350	37	16.5	8.128	34.16	2.032		42.0	420	2112	0.101
5000125KVEPRPVC	500	37	19.7	8.128	37.36	2.794		46.5	465	2804	0.0708
7500125KVEPRPVC	750	61	24.2	8.128	42.06	2.794		51.5	515	3765	0.0472
10000125KVEPRPVC	1000	61	27.9	8.128	45.76	2.794		55.0	550	4676	0.0354

Cable Information: 3 Core (133%) (Compress Conductor) - Test Voltage 64kV

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 [inches]	Thickness (Nom) [mm]	Diameter (Approx) [mm]	Thickness (Nom) [mm]						
1/00325KVEPRPVC	1/0	19	9.1	8.128	26.56	2.794	4	69.0	690	3707	0.335	
2/00325KVEPRPVC	2/0	19	10.1	8.128	27.56	3.556	4	72.5	725	4259	0.266	
3/00325KVEPRPVC	3/0	19	11.4	8.128	28.86	3.556	3	75.0	750	4793	0.211	
4/00325KVEPRPVC	4/0	19	12.8	8.128	30.26	3.556	3	78.0	780	5388	0.167	
2500325KVEPRPVC	250	37	14.0	8.128	31.66	3.556	2	81.0	810	5958	0.141	
3500325KVEPRPVC	350	37	16.5	8.128	34.16	3.556	2	87.0	870	7274	0.101	
5000325KVEPRPVC	500	37	19.7	8.128	37.36	3.556	1	94.0	940	9168	0.0708	

Cable Information: 1 Core (133%) (Compact Conductor) - 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]				
1/00125KVEPRPVCCPT	1/0	19	0.339	320	1.026	80	1.318	13.18	1080	0.335
2/00125KVEPRPVCCPT	2/0	19	0.382	320	1.069	80	1.358	13.58	1206	0.266
3/00125KVEPRPVCCPT	3/0	19	0.43	320	1.116	80	1.397	13.97	1355	0.211
4/00125KVEPRPVCCPT	4/0	19	0.481	320	1.167	80	1.456	14.56	1534	0.167
2500125KVEPRPVCCPT	250	37	0.524	320	1.218	80	1.496	14.96	1703	0.141
3500125KVEPRPVCCPT	350	37	0.619	320	1.313	80	1.594	15.94	2098	0.101
5000125KVEPRPVCCPT	500	37	0.741	320	1.435	110	1.791	17.91	2783	0.0708
7500125KVEPRPVCCPT	750	61	0.91	320	1.612	110	1.968	19.68	3740	0.0472
10000125KVEPRPVCCPT	1000	61	1.044	320	1.746	110	2.086	20.86	4643	0.0354

Cable Information: 3 Core (133%) (Compact Conductor) - Test Voltage 64kV

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]					
1/00325KVEPRPVCCPT	1/0	19	0.339	320	1.026	110	4	2.677	26.77	3663	0.335
2/00325KVEPRPVCCPT	2/0	19	0.382	320	1.069	140	4	2.814	28.14	4222	0.266
3/00325KVEPRPVCCPT	3/0	19	0.43	320	1.116	140	3	2.913	29.13	4729	0.211
4/00325KVEPRPVCCPT	4/0	19	0.481	320	1.167	140	3	3.031	30.31	5312	0.167
2500325KVEPRPVCCPT	250	37	0.524	320	1.218	140	2	3.129	31.29	5906	0.141
3500325KVEPRPVCCPT	350	37	0.619	320	1.313	140	2	3.346	33.46	7170	0.101
5000325KVEPRPVCCPT	500	37	0.741	420	1.435	140	1	3.602	36.02	9053	0.0708

Cable Information: 1 Core (133%) (Compact Conductor) - 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]				
1/00125KVEPRPVCCPT	1/0	19	8.6	8.128	26.06	2.032	33.5	335	1080	0.335
2/00125KVEPRPVCCPT	2/0	19	9.7	8.128	27.16	2.032	34.5	345	1206	0.266
3/00125KVEPRPVCCPT	3/0	19	10.9	8.128	28.36	2.032	35.5	355	1355	0.211
4/00125KVEPRPVCCPT	4/0	19	12.2	8.128	29.66	2.032	37.0	370	1534	0.167
2500125KVEPRPVCCPT	250	37	13.3	8.128	30.96	2.032	38.0	380	1703	0.141
3500125KVEPRPVCCPT	350	37	15.7	8.128	33.36	2.032	40.5	405	2098	0.101
5000125KVEPRPVCCPT	500	37	18.8	8.128	36.46	2.794	45.5	455	2783	0.0708
7500125KVEPRPVCCPT	750	61	23.1	8.128	40.96	2.794	50.0	500	3740	0.0472
10000125KVEPRPVCCPT	1000	61	26.5	8.128	44.36	2.794	53.0	530	4643	0.0354

Cable Information: 3 Core (133%) (Compact Conductor) - Test Voltage 64kV

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 [inches]	Thickness (Nom) [mm]	Diameter (Approx) [mm]	Thickness (Nom) [mm]					
1/00325KVEPRPVCCPT	1/0	19	8.6	8.128	26.06	2.794	4	68.0	680	3663	0.335
2/00325KVEPRPVCCPT	2/0	19	9.7	8.128	27.16	3.556	4	71.5	715	4222	0.266
3/00325KVEPRPVCCPT	3/0	19	10.9	8.128	28.36	3.556	3	74.0	740	4729	0.211
4/00325KVEPRPVCCPT	4/0	19	12.2	8.128	29.66	3.556	3	77.0	770	5312	0.167
2500325KVEPRPVCCPT	250	37	13.3	8.128	30.96	3.556	2	79.5	795	5906	0.141
3500325KVEPRPVCCPT	350	37	15.7	8.128	33.36	3.556	2	85.0	850	7170	0.101
5000325KVEPRPVCCPT	500	37	18.8	8.128	36.46	3.556	1	91.5	915	9053	0.0708

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	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.