



MV-105 EPR Insulated, CPE Jacketed 8 kV Copper Tape Shielded

Description

Medium voltage shielded power cable. Primary power and distribution circuits in industrial and commercial installations. True Triple extrusion system and closed handling raw materials system, to eliminate any contact with ambient, until extrusion process ends.

Approvals

UL listed as MV-105

UL 1072

ICEA S-93-639/NEMA WC74:

Shielded power cables 5,000 to 46,000V

ICEA S-97-682: utility

Shielded power cables 5,000 to 46,000V

AEIC CS8: extruded dielectric shielded

Power cables 5,000 to 46,000V

Temperature Rating

105°C - Normal Operating Temperature.

Voltage Rating

8kV 100% and 133% IL

Application

Power circuits in generating plants where line to ground fault current are within shield capabilities. May be used in wet or dry locations, installed in cable trays, raceways, duct and open air, aerially or directly buried as permitted by NEC.

Construction

- Stranded soft annealed bare copper conductor, Class B per ASTM B496
- Semi conducting cross-linked polyethylene (XLPE) conductor shield.
- Thermoset ethylene propylene rubber (EPR) insulation.
- Semi Conducting cross linked Polyethylene XLPE Insulation shield
- Soft annealed bare copper tape, 5 mil thick, 25% minimum overlap + suitable binder tape.
- Black Oil Resistant, flame retardant thermosetting chlorinated polyethylene (CPE) compound jacket.



Sycor Part No	AWG	Strands	Cond. Diam.	Nom. Diam. Over Insul.	Jacket Thickness	Appr. O.D. (in)	100% Insulation Level (115 mil)		133% Insulation Levels (140 mil)		Approx Weight		Approx Weight	
							Approx Weight		Nom. Diam. Over Insul.	Jacket Thickness	Appr. O.D. (in)	Approx Weight		
							Copper	Aluminum				Copper	Aluminum	
MV105C8KT100-6	6	7	0.17	0.44	60	0.66	299	242	0.49	60	0.72	332	276	
MV105C8KT100-4	4	7	0.21	0.48	60	0.71	369	279	0.53	60	0.76	404	315	
MV105C8KT100-2	2	7	0.27	0.54	60	0.76	474	331	0.59	60	0.81	511	369	
MV105C8KT100-1	1	19	0.30	0.57	60	0.79	542	362	0.62	80	0.89	617	437	
MV105C8KT100-1/0	1/0	19	0.34	0.61	60	0.83	628	401	0.66	80	0.93	706	480	
MV105C8KT100-2/0	2/0	19	0.38	0.65	80	0.91	771	485	0.70	80	0.97	816	530	
MV105C8KT100-3/0	3/0	19	0.42	0.69	80	0.96	905	544	0.74	80	1.01	951	591	
MV105C8KT100-4/0	4/0	19	0.48	0.74	80	1.01	1070	615	0.80	80	1.06	1118	663	
MV105C8KT100-250	250	37	0.52	0.80	80	1.07	1219	681	0.85	80	1.12	1270	732	
MV105C8KT100-300	300	37	0.57	0.85	80	1.12	1401	756	0.90	80	1.17	1454	809	
MV105C8KT100-350	350	37	0.62	0.90	80	1.16	1582	829	0.95	80	1.22	1637	884	
MV105C8KT100-400	400	37	0.66	0.94	80	1.21	1760	900	0.99	80	1.26	1817	957	
MV105C8KT100-500	500	37	0.74	1.02	80	1.31	2139	1064	1.07	80	1.36	2200	1125	
MV105C8KT100-600	600	61	0.81	1.10	80	1.40	2498	1208	1.15	80	1.45	2563	1272	
MV105C8KT100-750	750	61	0.91	1.20	80	1.49	3016	1403	1.25	80	1.54	3085	1472	
MV105C8KT100-1000	1000	61	1.06	1.35	80	1.64	3877	1727	1.40	110	1.76	4059	1909	

*Available in 100% and 133% Insulation Levels.

Cables that comply with 8 kV 100% can also be marked 5 kV 133%.

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