



MV-105 EPR Insulated, CPE Jacketed 25 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

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.

Temperature Rating

105°C - Normal Operating Temperature.

Voltage Rating

25kV 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.



Sycor Part No	AWG	Strands	Cond. Diam.	Nom. Diam. Over Insul.	Jacket Thickness	Appr. O.D. (in)	100% Insulation Level (260 mil)		133% Insulation Levels (320 mil)		Approx Weight		
							Approx Weight		Nom. Diam. Over	Jacket Thickness	Appr. O.D. (in)	Approx Weight	
							Copper	Aluminum				Copper	Aluminum
MV105C25KT100-1	1	19	0.30	0.86	80	1.13	844	664	-	-	-	-	-
MV105C25KT100-1/0	1/0	19	0.34	0.90	80	1.17	941	714	1.02	80	1.32	1103	877
MV105C25KT100-2/0	2/0	19	0.38	0.94	80	1.21	1059	772	1.06	80	1.36	1225	939
MV105C25KT100-3/0	3/0	19	0.42	0.99	80	1.26	1204	843	1.11	80	1.40	1376	1016
MV105C25KT100-4/0	4/0	19	0.48	1.04	80	1.33	1408	953	1.16	80	1.45	1560	1105
MV105C25KT100-250	250	37	0.52	1.10	80	1.39	1571	1034	1.22	80	1.51	1729	1192
MV105C25KT100-300	300	37	0.57	1.15	80	1.44	1767	1122	1.27	80	1.56	1930	1285
MV105C25KT100-350	350	37	0.62	1.19	80	1.48	1960	1207	1.31	80	1.61	2128	1374
MV105C25KT100-400	400	37	0.66	1.24	80	1.53	2149	1289	1.36	80	1.65	2322	1462
MV105C25KT100-500	500	37	0.74	1.31	80	1.60	2523	1447	1.43	110	1.79	2812	1737
MV105C25KT100-600	600	61	0.81	1.40	110	1.76	3011	1720	1.52	110	1.91	3258	1967
MV105C25KT100-750	750	61	0.91	1.49	110	1.85	3558	1945	1.62	110	2.00	3817	2204
MV105C25KT100-1000	1000	61	1.06	1.65	110	2.03	4519	2369	1.77	110	2.16	4743	2593

*Available in 100% and 133% Insulation Levels.