



MV-105 EPR Insulated, CPE Jacketed 35 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

35kV 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 (345 mil)		133% Insulation Levels (420 mil)				
							Approx Weight		Nom. Diam. Over	Jacket Thickness	Appr. O.D. (in)	Approx Weight	
							Copper	Aluminum				Copper	Aluminum
MV105C35KT100-1/0	1/0	19	0.34	1.08	80	1.37	1165	938	1.23	80	1.52	1361	1135
MV105C35KT100-2/0	2/0	19	0.38	1.12	80	1.41	1288	1002	1.27	80	1.56	1490	1204
MV105C35KT100-3/0	3/0	19	0.42	1.16	80	1.45	1441	1081	1.32	80	1.61	1649	1288
MV105C35KT100-4/0	4/0	19	0.48	1.21	80	1.51	1627	1172	1.37	80	1.66	1842	1387
MV105C35KT100-250	250	37	0.52	1.27	80	1.56	1799	1261	1.42	110	1.78	2130	1592
MV105C35KT100-300	300	37	0.57	1.32	80	1.61	2001	1357	1.47	110	1.83	2341	1697
MV105C35KT100-350	350	37	0.62	1.37	80	1.66	2201	1448	1.52	110	1.87	2550	1797
MV105C35KT100-400	400	37	0.66	1.41	110	1.76	2505	1645	1.56	110	1.95	2805	1945
MV105C35KT100-500	500	37	0.74	1.49	110	1.84	2894	1819	1.64	110	2.03	3206	2131
MV105C35KT100-600	600	61	0.81	1.57	110	1.96	3345	2054	1.73	110	2.11	3618	2327
MV105C35KT100-750	750	61	0.91	1.67	110	2.06	3908	2295	1.82	110	2.21	4194	2581
MV105C35KT100-1000	1000	61	1.06	1.82	110	2.21	4841	2691	1.97	110	2.36	5145	2995

*Available in 100% and 133% Insulation Levels.