



MV-105 EPR Insulated, CPE Jacketed 5 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
- (Aluminum conductor available upon request)
- 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 thickness) 25% overlap, binder tape
- Black oil resistant and flame retardant thermoset Chlorinated Polyethylene (CPE) jacket

Temperature Rating

105°C - Normal Operating Temperature.

Voltage Rating

5kV 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.



100% and 133% Insulation Levels (90 mil)

Sycor Part No	AWG	Strands	Cond Diam	Insulation Thickness	Jacket Thickness	Appr. O.D. (in)	Approx Weight	
							Copper	Aluminum
MV105C5KT100-6	6	7	0.17	0.39	60	0.61	267	211
MV105C5KT100-4	4	7	0.21	0.43	60	0.66	336	246
MV105C5KT100-2	2	7	0.27	0.49	60	0.71	438	296
MV105C5KT100-1	1	19	0.30	0.52	60	0.74	505	325
MV105C5KT100-1/0	1/0	19	0.34	0.55	60	0.78	590	363
MV105C5KT100-2/0	2/0	19	0.38	0.59	60	0.82	694	408
MV105C5KT100-3/0	3/0	19	0.42	0.64	80	0.91	861	500
MV105C5KT100-4/0	4/0	19	0.48	0.69	80	0.96	1023	569
MV105C5KT100-250	250	37	0.52	0.75	80	1.02	1170	633
MV105C5KT100-300	300	37	0.57	0.80	80	1.07	1350	706
MV105C5KT100-350	350	37	0.62	0.85	80	1.11	1529	777
MV105C5KT100-400	400	37	0.66	0.89	80	1.16	1706	846
MV105C5KT100-500	500	37	0.74	0.97	80	1.23	2055	981
MV105C5KT100-600	600	61	0.81	1.05	80	1.34	2436	1146
MV105C5KT100-750	750	61	0.91	1.15	80	1.44	2950	1339
MV105C5KT100-1000	1000	61	1.06	1.30	80	1.59	3804	1657

*Available in 100% and 133% Insulation Levels.