



MV-105 EPR Insulated, PVC 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, 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 metallic shield.
- Black Oil Resistant, sunlight resistance and flame retardant polyvinyl chloride (PVC) jacket.

Temperature Rating

105°C Normal Operating Temperature

Voltage Rating

5 kV 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. Nom. O.D.	Insulation Thickness	Jacket Thickness	Appr. O.D. (in)	Approx Weight	
							Copper	Aluminum
MV1055KT100-6	6	7	0.17	0.39	60	0.60	260	204
MV1055KT100-4	4	7	0.21	0.43	60	0.65	328	238
MV1055KT100-2	2	7	0.27	0.49	60	0.70	430	287
MV1055KT100-1	1	19	0.30	0.52	60	0.73	496	316
MV1055KT100-1/0	1/0	19	0.34	0.55	60	0.77	581	354
MV1055KT100-2/0	2/0	19	0.38	0.59	60	0.81	684	398
MV1055KT100-3/0	3/0	19	0.42	0.64	80	0.90	849	488
MV1055KT100-4/0	4/0	19	0.48	0.69	80	0.95	1011	556
MV1055KT100-250	250	37	0.52	0.75	80	1.01	1157	619
MV1055KT100-350	350	37	0.62	0.85	80	1.10	1515	761
MV1055KT100-500	500	37	0.74	0.97	80	1.22	2039	964
MV1055KT100-750	750	61	0.91	1.15	80	1.43	2931	1318
MV1055KT100-1000	1000	61	1.06	1.30	80	1.58	3783	1633

*Available in 100% and 133% Insulation Levels.