



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

## Temperature Rating

105°C Normal Operating Temperature

## Voltage Rating

35 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.



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		
							Approx Weight		Nom. Diam. Over Insul.	Jacket Thickness	Appr. O.D. (in)	Approx Weight	
							Copper	Aluminum				Copper	Aluminum
MV10535KT100-1/0	1/0	19	0.34	1.08	80	1.36	1147	920	1.23	80	1.51	1341	1115
MV10535KT100-2/0	2/0	19	0.38	1.12	80	1.40	1270	984	1.27	80	1.55	1470	1184
MV10535KT100-3/0	3/0	19	0.42	1.16	80	1.44	1422	1061	1.32	80	1.60	1628	1267
MV10535KT100-4/0	4/0	19	0.48	1.21	80	1.49	1607	1153	1.37	80	1.65	1820	1365
MV10535KT100-250	250	37	0.52	1.27	80	1.55	1778	1241	1.42	110	1.76	2103	1565
MV10535KT100-300	300	37	0.57	1.32	80	1.60	1980	1335	1.47	110	1.81	2314	1669
MV10535KT100-350	350	37	0.62	1.37	80	1.65	2179	1426	1.52	110	1.86	2522	1769
MV10535KT100-400	400	37	0.66	1.41	110	1.75	2479	1619	1.56	110	1.94	2776	1916
MV10535KT100-500	500	37	0.74	1.49	110	1.83	2867	1791	1.64	110	2.01	3176	2100
MV10535KT100-600	600	61	0.81	1.57	110	1.95	3315	2025	1.73	110	2.10	3586	2296
MV10535KT100-750	750	61	0.91	1.67	110	2.04	3877	2264	1.82	110	2.19	4161	2548
MV10535KT100-1000	1000	61	1.06	1.82	110	2.19	4808	2658	1.97	110	2.35	5110	2960

\*Available in 100% and 133% Insulation Levels.