



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

## Temperature Rating

105°C Normal Operating Temperature

## Voltage Rating

25 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 (260 mil)		133% Insulation Levels (320 mil)		Approx Weight		
							Approx Weight		Nom. Diam. Over Insul.	Jacket Thickness	Appr. O.D. (in)	Approx Weight	
							Copper	Aluminum				Copper	Aluminum
MV10525KT100-1	1	19	0.30	0.86	80	1.12	829	649	0.97	80	1.23	910	713
MV10525KT100-1/0	1/0	19	0.34	0.90	80	1.16	926	699	1.02	80	1.30	1086	859
MV10525KT100-2/0	2/0	19	0.38	0.94	80	1.20	1043	757	1.06	80	1.34	1208	922
MV10525KT100-3/0	3/0	19	0.42	0.99	80	1.25	1187	827	1.11	80	1.39	1358	997
MV10525KT100-4/0	4/0	19	0.48	1.04	80	1.32	1390	935	1.16	80	1.44	1541	1086
MV10525KT100-250	250	37	0.52	1.10	80	1.38	1553	1016	1.22	80	1.50	1709	1172
MV10525KT100-300	300	37	0.57	1.15	80	1.43	1748	1103	1.27	80	1.55	1909	1264
MV10525KT100-350	350	37	0.62	1.19	80	1.47	1940	1187	1.31	80	1.59	2106	1353
MV10525KT100-400	400	37	0.66	1.24	80	1.52	2129	1269	1.36	80	1.64	2300	1440
MV10525KT100-500	500	37	0.74	1.31	80	1.59	2501	1426	1.43	110	1.78	2786	1710
MV10525KT100-600	600	61	0.81	1.40	80	1.68	2881	1590	1.52	110	1.90	3229	1939
MV10525KT100-750	750	61	0.91	1.49	110	1.84	3531	1918	1.62	110	1.99	3787	2174
MV10525KT100-1000	1000	61	1.06	1.65	110	2.02	4488	2338	1.77	110	2.14	4711	2561

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