



# MV-105 EPR Insulated, PVC Jacketed 8 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

8 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% Insulation Level (115 mil)

133% Insulation Levels (140 mil)

Sycor Part No	AWG	Strands	Cond Diam	Nom. Diam. Over Insul.	Jacket Thickn ess	Appr. O.D. (in)	Approx Weight Lbs./Mft.		Nom. Diam. Over Insul.	Jacket Thicknes s	Appr. O.D. (in)	Approx Weight Lbs./Mft.	
							Copper	Aluminum				Copper	Aluminum
							MV1058KT100-6	6				7	0.17
MV1058KT100-4	4	7	0.21	0.48	60	0.70	361	271	0.53	60	0.75	395	306
MV1058KT100-2	2	7	0.27	0.54	60	0.75	465	322	0.59	60	0.80	502	359
MV1058KT100-1	1	19	0.30	0.57	60	0.78	532	352	0.62	80	0.88	605	425
MV1058KT100-1/0	1/0	19	0.34	0.61	60	0.82	618	392	0.66	80	0.91	694	468
MV1058KT100-2/0	2/0	19	0.38	0.65	80	0.90	760	473	0.70	80	0.95	803	517
MV1058KT100-3/0	3/0	19	0.42	0.69	80	0.95	893	532	0.74	80	1.00	938	577
MV1058KT100-4/0	4/0	19	0.48	0.74	80	1.00	1057	602	.80	80	1.05	1104	650
MV1058KT100-250	250	37	0.52	0.80	80	1.06	1205	667	0.85	80	1.11	1255	718
MV1058KT100-300	300	37	0.57	0.85	80	1.11	1386	742	0.90	80	1.16	1439	794
MV1058KT100-350	350	37	0.62	0.90	80	1.15	1567	814	0.95	80	1.20	1621	868
MV1058KT100-400	400	37	0.66	0.94	80	1.20	1744	885	0.99	80	1.25	1801	941
MV1058KT100-500	500	37	0.74	1.02	80	1.30	2122	1047	1.07	80	1.35	2182	1107
MV1058KT100-600	600	61	0.81	1.10	80	1.38	2480	1189	1.15	80	1.43	2544	1253
MV1058KT100-750	750	61	0.91	1.20	80	1.48	2997	1384	1.25	80	1.53	3065	1452
MV1058KT100-1000	1000	61	1.06	1.35	80	1.63	3855	1705	1.40	110	1.74	4033	1883

\*Available in 100% and 133% Insulation Levels.  
Cables that comply with 8 kV 100% can be marked 5K 133%.

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