



# MV-90 XLPE 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-90.  
UL 1072  
ICEA S-93-639/NEMA WC74 - Standard for 5kV - 40 kV Shielded power cables  
ICEA S-97-682 - Standard for 5K - 40kVShielded power cables  
AEIC CS8 Extruded dielectric shielded power cables 5kV - 40kV.

## Construction

- Soft annealed bare copper compacted conductor, Class B per ASTM B496.
- Semi conducting cross-linked polyethylene (XLPE) conductor shield.
- Solid soft annealed uncoated copper per ASTM B3, helically applied and uniformly spaced.
- Semi conducting cross-linked polyethylene (XLPE) insulation.
- Black Oil Resistant, sunlight resistant and flame retardant Polyvinyl Chloride (PVC) compound jacket

## Temperature Rating

90°C- Normal Operating Temperature

## Voltage Rating

35kV 100% and 133%

## 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. (in)	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
MV9035KT100-1/0	1/0	19	0.34	1.06	80	1.34	1022	795	1.21	80	1.49	1176	949
MV9035KT100-2/0	2/0	19	0.38	1.10	80	1.38	1139	853	1.25	80	1.53	1296	1010
MV9035KT100-3/0	3/0	19	0.42	1.15	80	1.42	1284	923	1.30	80	1.57	1446	1085
MV9035KT100-4/0	4/0	19	0.48	1.20	80	1.48	1461	1006	1.35	80	1.63	1627	1173
MV9035KT100-250	250	37	0.52	1.26	80	1.53	1623	1085	1.41	110	1.74	1897	1359
MV9035KT100-300	300	37	0.57	1.31	80	1.58	1817	1172	1.46	110	1.79	2098	1454
MV9035KT100-350	350	37	0.62	1.35	80	1.63	2009	1255	1.50	110	1.84	2297	1544
MV9035KT100-400	400	37	0.66	1.39	80	1.67	2197	1337	1.54	110	1.91	2541	1681
MV9035KT100-500	500	37	0.74	1.47	110	1.81	2674	1598	1.62	110	1.99	2926	1850
MV9035KT100-600	600	61	0.81	1.56	110	1.93	3107	1816	1.71	110	2.08	3320	2029
MV9035KT100-750	750	61	0.91	1.65	110	2.02	3653	2040	1.80	110	2.17	3875	2262
MV9035KT100-1000	1000	61	1.06	1.81	110	2.17	4559	2409	1.96	110	2.32	4795	2645

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