



# MV-90 XLPE Insulated, PVC Jacketed 35 kV Wire 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 - 40kV Shielded 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

Normal Operating Temperature - 90°C

## Voltage Rating

35kV 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.



Optional

Sycor Part No	AWG	Strands	Cond. Diam.	Nom. Diam.	Jacket Thickne	Appr. O.D.	100% Insulation Level (345 mil)		133% Insulation Levels (420 mil)			Approx Weight	
							Approx Weight		Nom. Diam.	Jacket Thickness	Appr. O.D. (In)	Approx Weight	
							Copper	Aluminum				Copper	Aluminum
MV9035KS100-1/0	1/0	19	0.34	1.06	80	1.37	973	746	1.21	80	1.52	1116	889
MV9035KS100-2/0	2/0	19	0.38	1.10	80	1.41	1087	801	1.25	80	1.56	1233	947
MV9035KS100-3/0	3/0	19	0.42	1.15	80	1.46	1228	868	1.30	80	1.61	1379	1018
MV9035KS100-4/0	4/0	19	0.48	1.20	80	1.51	1401	947	1.35	80	1.66	1557	1102
MV9035KS100-250	250	37	0.52	1.26	80	1.57	1568	1030	1.41	110	1.78	1832	1295
MV9035KS100-300	300	37	0.57	1.31	80	1.62	1758	1113	1.46	110	1.83	2030	1385
MV9035KS100-350	350	37	0.62	1.35	80	1.66	1946	1193	1.50	110	1.87	2225	1472
MV9035KS100-400	400	37	0.66	1.39	110	1.77	2235	1375	1.54	110	1.95	2464	1604
MV9035KS100-500	500	37	0.74	1.47	110	1.84	2604	1529	1.62	110	2.02	2843	1767
MV9035KS100-600	600	61	0.81	1.56	110	1.96	3036	1746	1.71	110	2.11	3238	1947
MV9035KS100-750	750	61	0.91	1.65	110	2.06	3576	1963	1.80	110	2.21	3787	2174
MV9035KS100-1000	1000	61	1.06	1.81	110	2.21	4470	2320	1.96	110	2.36	4695	2545

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

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