



# MV-90 XLPE Insulated, PVC Jacketed 5 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 - 40kVShielded power cables  
AEIC CS8 Extruded dielectric shielded power cables 5kV - 40kV.

## Temperature Rating

Normal Operating Temperature - 90°C

## Voltage Rating

5kV 100% and 133% IL

## Application

Power circuits in generating plants where line to ground fault current is 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.

## 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



100% and 133% Insulation Levels (90 mil)

Sycor Part No	AWG	Strands	Cond Nom	Nomin. Diam. Over	Jacket Thickn ess	Appr. O.D. (in)	Approx Weight Lbs./Mft.	
							Copper	Aluminum
MV905KS100-6	6	7	0.17	0.38	60	0.63	229	172
MV905KS100-4	4	7	0.21	0.43	60	0.68	291	202
MV905KS100-2	2	7	0.27	0.48	60	0.73	392	250
MV905KS100-1	1	19	0.30	0.51	60	0.76	455	275
MV905KS100-1/0	1/0	19	0.34	0.55	60	0.80	535	308
MV905KS100-2/0	2/0	19	0.38	0.59	80	0.88	668	382
MV905KS100-3/0	3/0	19	0.42	0.64	80	0.93	793	433
MV905KS100-4/0	4/0	19	0.48	0.69	80	0.98	949	494
MV905KS100-250	250	37	0.52	0.75	80	1.03	1096	559
MV905KS100-350	350	37	0.62	0.84	80	1.13	1443	689
MV905KS100-500	500	37	0.74	0.96	080	1.25	1952	877
MV905KS100-750	750	61	0.91	1.14	80	1.45	2828	1215
MV905KS100-1000	1000	61	1.06	1.30	80	1.61	3660	1510

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