



**SYCOR**  
TECHNOLOGY INC.

## Power Cable

Type MV-90, Shielded - 5 KV & 5/8KV  
XLP Insulation, PVC Jacket



### CONSTRUCTION:

Shielded, single conductor cables having stranded, bare copper conductors; extruded semi-conducting strand shield; cross-linked polyethylene (XLP) insulation; extruded semi-conducting insulation shield with bare copper wire shield; and Polyvinyl Chloride (PVC) jacket. Cables are rated for 5000 Volts, 90°C wet or dry locations, and meet the requirements of ICEA S-66-524, AEIC CS5, Article 326 and 310 of the National Electrical Code and UL-1072.

### TEMPERATURE RATING:

90°C wet or dry locations

### VOLTAGE RATING:

5000 Volts

### CONDUCTOR SHIELD:

Extruded semi-conducting copolymer compound.

### INSULATION:

Cross-linked polyethylene(XLP) 90°C per ICEA S-66-524 section 3.

### INSULATION SHIELD:

Extruded semi-conducting copolymer compound applied over the insulation.

### SHIELD:

Uncoated helically applied copper wires.

### JACKET:

Extruded sunlight resistant Polyvinyl Chloride jacket with excellent mechanical properties.

### TESTING:

Finished cable is tested in accordance with and meets the requirements of ICEA S-66-524, UL 1072 AND AEIC CS5.

### APPLICATIONS:

Cables are suitable for use in wet or dry locations at maximum operating temperature of 90°C for normal operation; 130°C for emergency overload conditions; and 250°C for short circuit conditions. May be installed in conduit, duct or aerially when properly supported by a messenger.

Sycor Part Number	AWG or MCM	Insul. Diam.	Shield Diam.	Jack Thick.	Appro O.D.	Appro Amp	Appro Weigh #/Mft.
MV905KS100-8	8	.365"	.450"	.060"	.590"	55	195
MV905KS100-6	6	.402"	.487"	.060"	.624"	75	244
MV905KS100-4	4	.450"	.535"	.060"	.674"	97	309
MV905KS100-2	2	.510"	.595"	.060"	.734"	130	409
MV905KS100-1	1	.548"	.633"	.060"	.792"	155	475
MV905KS100-1/0	1/0	.588"	.672"	.060"	.812"	180	559
MV905KS100-2/0	2/0	.633"	.718"	.060"	.857"	205	661
MV905KS100-3/0	3/0	.684"	.769"	.080"	.948"	240	822
MV905KS100-4/0	4/0	.741"	.826"	.080"	1.005"	280	983
MV905KS100-250	250 MCM	.797"	.882"	.080"	1.061"	315	1127
MV905KS100-300	300 MCM	.851"	.936"	.080"	1.115"	350	1305
MV905KS100-350	350 MCM	.902"	.987"	.080"	1.166"	385	1482
MV905KS100-400	400 MCM	.948"	1.033"	.080"	1.223"	415	1696
MV905KS100-500	500 MCM	1.032"	1.137"	.080"	1.327"	475	2069
MV905KS100-600	600 MCM	1.120"	1.225"	.080"	1.415"	525	2423
MV905KS100-750	750 MCM	1.224"	1.329"	.080"	1.519"	600	2940
MV905KS100-1000	1000 MCM	1.375"	1.480"	.080"	1.670"	690	3789

Sycor Part Number	AWG or MCM	Insul. Diam.	Shield Diam.	Jack Thick.	Appro O.D.	Appro Amp	Appro Weigh #/Mft.
MV905/8KS133-6	6	.452"	.537"	.060"	.676"	75	266
MV905/8KS133-4	4	.500"	.585"	.060"	.724"	97	335
MV905/8KS133-2	2	.560"	.645"	.060"	.784"	130	432
MV905/8KS133-1	1	.598"	.683"	.060"	.822"	155	505
MV905/8KS133-1/0	1/0	.638"	.723"	.060"	.862"	180	589
MV905/8KS133-2/0	2/0	.683"	.768"	.060"	.907"	205	694
MV905/8KS133-3/0	3/0	.734"	.819"	.080"	.998"	240	858
MV905/8KS133-4/0	4/0	.791"	.876"	.080"	1.055"	280	1020
MV905/8KS133-250	250 MCM	.847"	.932"	.080"	1.111"	315	1166
MV905/8KS133-300	300 MCM	.901"	.986"	.080"	1.165"	350	1346
MV905/8KS133-350	350 MCM	.952"	1.037"	.080"	1.227"	385	1565
MV905/8KS133-400	400 MCM	.998"	1.083"	.080"	1.273"	415	1763
MV905/8KS133-500	500 MCM	1.082"	1.187"	.080"	1.377"	475	1227
MV905/8KS133-600	600 MCM	1.170"	1.275"	.080"	1.465"	525	1477
MV905/8KS133-750	750 MCM	1.274"	1.379"	.080"	1.569"	600	2997
MV905/8KS133-1000	1000 MCM	1.425"	1.530"	.080"	1.720"	690	3850

Ampacities are based on three single conductor cables in isolated conduit in air. Conductor temperature of 90°C and ambient air temperature of 40°C per table 310-73 of 1990 NEC.

**Sycor Technology Inc.** Advance Wire and Cable Division

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