

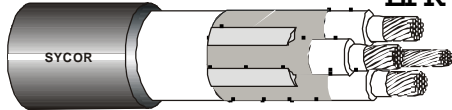


**SYCOR**  
TECHNOLOGY INC.

## Power Cable

Type MV-90, Shielded - 5 KV & 5/8KV-3 Conductor

EPR Insulation, PVC Jacket



### CONSTRUCTION:

Shielded, three conductor cables having stranded, bare copper conductors; extruded semi-conducting strand shield; ethylene propylene rubber (EPR) insulation; extruded semi-conducting insulation shield with bare copper tape 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-68-516, AEIC CS6, 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:

Ethylene propylene rubber (EPR), 90°C per ICEA S-68-516 section 3.

### INSULATION SHIELD:

Extruded semi-conducting copolymer compound applied over the insulation.

### SHIELD:

Uncoated helically applied copper tape, 5 mils thick with 12.5% minimum overlap.

### 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-68-516, UL 1072 AND AEIC CS6.

### 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	Grnd. AWG	Insul. Shield Diam.	Jack Thick.	Appro. O.D.	Appro. Amp	Appro. Weigh #/Mft.
MV905KTS100-83	8	8	.450"	.080"	1.165"	52	760
MV905KTS100-63	6	6	.487"	.080"	1.245"	69	945
MV905KTS100-43	4	6	.535"	.080"	1.350"	91	1200
MV905KTS100-23	2	6	.595"	.080"	1.475"	125	1565
MV905KTS100-13	1	4	.633"	.080"	1.560"	140	1900
MV905KTS100-1/03	1/0	4	.673"	.080"	1.645"	165	2180
MV905KTS100-2/03	2/0	4	.718"	.110"	1.800"	190	2560
MV905KTS100-3/03	3/0	3	.769"	.110"	1.910"	220	2985
MV905KTS100-4/03	4/0	3	.826"	.110"	2.035"	255	3520
MV905KTS100-2503	250 MCM	3	.882"	.110"	2.155"	280	4015
MV905KTS100-3003	300 MCM	2	.936"	.110"	2.270"	315	4585
MV905KTS100-3503	350 MCM	2	.987"	.110"	2.380"	350	5070
MV905KTS100-4003	400 MCM	2	1.033"	.110"	2.480"	375	6100
MV905KTS100-5003	500 MCM	1	1.137"	.110"	2.700"	425	7190
MV905KTS100-6003	600 MCM	1	1.225"	.140"	2.955"	465	8350
MV905KTS100-7503	750 MCM	1/0	1.329"	.140"	3.180"	525	10100
MV905KTS100-10003	1000 MCM	1/0	1.480"	.140"	3.500"	590	12980

Sycor Part Number	AWG or MCM	Grnd. AWG	Insul. Shield Diam.	Jack Thick.	Appro. O.D.	Appro. Amp	Appro. Weigh #/Mft.
MV905/8KTS133-63	6	6	.537"	.080"	1.350"	69	1030
MV905/8KTS133-43	4	6	.585"	.080"	1.455"	91	1300
MV905/8KTS133-23	2	6	.645"	.080"	1.585"	125	1650
MV905/8KTS133-13	1	4	.683"	.110"	1.725"	140	2020
MV905/8KTS133-1/03	1/0	4	.723"	.110"	1.810"	165	2300
MV905/8KTS133-2/03	2/0	4	.768"	.110"	1.910"	190	2650
MV905/8KTS133-3/03	3/0	3	.819"	.110"	2.020"	220	3120
MV905/8KTS133-4/03	4/0	3	.876"	.110"	2.140"	255	3650
MV905/8KTS133-2503	250 MCM	3	.932"	.110"	2.260"	280	4150
MV905/8KTS133-3003	300 MCM	2	.986"	.110"	2.375"	315	4730
MV905/8KTS133-3503	350 MCM	2	1.037"	.110"	2.485"	350	5350
MV905/8KTS133-4003	400 MCM	2	1.083"	.110"	2.585"	375	6345
MV905/8KTS133-5003	500 MCM	1	1.187"	.140"	2.870"	425	7360
MV905/8KTS133-6003	600 MCM	1	1.275"	.140"	3.060"	465	8540
MV905/8KTS133-7503	750 MCM	1/0	1.379"	.140"	3.283"	525	10300
MV905/8KTS133-10003	1000 MCM	1/0	1.530"	.140"	3.610"	590	13200

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 310-75 of 1990 NEC.

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

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