



SYCOR

TECHNOLOGY INC.

Power Cable
Type MV-90, Shielded - 35 KV
EPR Insulation, PVC Jacket



CONSTRUCTION:

Shielded, single 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 35000 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:

35000 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 5 mil bare copper tape with a minimum overlap of 12.5%.

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.

100% Insulation Level - 345 Mils

Sycor Part Number	AWG or MCM	Insul. Diam.	Insul. Shield Diam.	Jack Thick.	Appro O.D.	Amp	Appro Weigh #/Mft.
MV9035KTS100-1/0	1/0	1.098"	1.198"	.080"	1.411"	195	1180
MV9035KTS100-2/0	2/0	1.143"	1.243"	.080"	1.456"	225	1325
MV9035KTS100-3/0	3/0	1.194"	1.294"	.080"	1.507"	260	1460
MV9035KTS100-4/0	4/0	1.251"	1.351"	.080"	1.564"	295	1660
MV9035KTS100-250	250 MCM	1.307"	1.407"	.080"	1.620"	330	1850
MV9035KTS100-300	300 MCM	1.361"	1.461"	.110"	1.734"	360	2060
MV9035KTS100-350	350 MCM	1.412"	1.512"	.110"	1.785"	395	2270
MV9035KTS100-400	400 MCM	1.458"	1.558"	.110"	1.831"	420	2770
MV9035KTS100-500	500 MCM	1.542"	1.662"	.110"	1.935"	480	3020
MV9035KTS100-600	600 MCM	1.630"	1.750"	.110"	2.023"	520	3410
MV9035KTS100-750	750 MCM	1.734"	1.854"	.110"	2.127"	585	3990
MV9035KTS100-1000	1000 MCM	1.885"	2.005"	.110"	2.278"	675	4845

133% Insulation Level - 420 Mils

Sycor Part Number	AWG or MCM	Insul. Diam.	Insul. Shield Diam.	Jack Thick.	Appro O.D.	Amp	Appro Weigh #/Mft.
MV9035KTS133-1/0	1/0	1.248"	1.348"	.080"	1.561"	195	1410
MV9035KTS133-2/0	2/0	1.293"	1.393"	.080"	1.606"	225	1560
MV9035KTS133-3/0	3/0	1.344"	1.444"	.080"	1.657"	260	1720
MV9035KTS133-4/0	4/0	1.401"	1.501"	.110"	1.774"	295	1930
MV9035KTS133-250	250 MCM	1.457"	1.557"	.110"	1.830"	330	2190
MV9035KTS133-300	300 MCM	1.511"	1.631"	.110"	1.904"	360	2440
MV9035KTS133-350	350 MCM	1.562"	1.682"	.110"	1.955"	395	2680
MV9035KTS133-400	400 MCM	1.608"	1.728"	.110"	2.001"	420	3110
MV9035KTS133-500	500 MCM	1.692"	1.812"	.110"	2.085"	480	3320
MV9035KTS133-600	600 MCM	1.780"	1.900"	.110"	2.173"	520	3710
MV9035KTS133-750	750 MCM	1.884"	2.004"	.110"	2.277"	585	4295
MV9035KTS133-1000	1000 MCM	2.035"	2.175"	.110"	2.448"	675	5260

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.

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