



SYCOR
TECHNOLOGY INC.

Power Cable
Type MV-90, Shielded - 25 KV
EPR Insulation, PVC Jacket



100% Insulation Level - 260 Mils

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 25000 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:

25000 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.

Sycor Part Number	AWG or MCM	Insul. Diam.	Insul. Shield Diam.	Jack Thick.	Appro O.D.	Appro Amp	Appro Weigh #/Mft.
MV9025KTS100-1	1	.888"	.973"	.080"	1.152"	170	807
MV9025KTS100-1/0	1/0	.928"	1.013"	.080"	1.203"	195	941
MV9025KTS100-2/0	2/0	.973"	1.058"	.080"	1.248"	225	1061
MV9025KTS100-3/0	3/0	1.024"	1.129"	.080"	1.319"	260	1252
MV9025KTS100-4/0	4/0	1.081"	1.186"	.080"	1.376"	295	1412
MV9025KTS100-250	250 MCM	1.137"	1.242"	.080"	1.432"	330	1576
MV9025KTS100-300	300 MCM	1.191"	1.296"	.080"	1.486"	360	1773
MV9025KTS100-350	350 MCM	1.242"	1.347"	.080"	1.537"	395	1971
MV9025KTS100-400	400 MCM	1.288"	1.393"	.080"	1.583"	420	2163
MV9025KTS100-500	500 MCM	1.372"	1.477"	.080"	1.667"	480	2539
MV9025KTS100-600	600 MCM	1.460"	1.565"	.110"	1.815"	520	3019
MV9025KTS100-750	750 MCM	1.564"	1.711"	.110"	1.961"	585	3640
MV9025KTS100-1000	1000 MCM	1.715"	1.862"	.110"	2.112"	675	4548

133% Insulation Level - 320 Mils

Sycor Part Number	AWG or MCM	Insul. Diam.	Insul. Shield Diam.	Jack Thick.	Appro O.D.	Appro Amp	Appro Weigh #/Mft.
MV9025KTS133-1	1	1.008"	1.113"	.080"	1.303"	170	992
MV9025KTS133-1/0	1/0	1.048"	1.153"	.080"	1.343"	195	1095
MV9025KTS133-2/0	2/0	1.093"	1.198"	.080"	1.388"	225	1221
MV9025KTS133-3/0	3/0	1.144"	1.249"	.080"	1.439"	260	1374
MV9025KTS133-4/0	4/0	1.201"	1.306"	.080"	1.496"	295	1561
MV9025KTS133-250	250 MCM	1.257"	1.362"	.080"	1.552"	330	1730
MV9025KTS133-300	300 MCM	1.311"	1.416"	.080"	1.606"	360	1933
MV9025KTS133-350	350 MCM	1.362"	1.467"	.080"	1.657"	395	2136
MV9025KTS133-400	400 MCM	1.408"	1.513"	.110"	1.763"	420	2425
MV9025KTS133-500	500 MCM	1.492"	1.597"	.110"	1.847"	480	2813
MV9025KTS133-600	600 MCM	1.580"	1.727"	.110"	1.977"	520	3278
MV9025KTS133-750	750 MCM	1.684"	1.831"	.110"	2.081"	585	3846
MV9025KTS133-1000	1000 MCM	1.835"	1.982"	.110"	2.232"	675	4769

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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