



SYCOR
TECHNOLOGY INC.

Power Cable
Type MV-90, Shielded - 15 KV
EPR Insulation, PVC Jacket



100% Insulation Level - 175 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 15000 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:

15000 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.

Sycor Part Number	AWG or MCM	Insul. Diam.	Shield Diam.	Jack Thick.	Appro O.D.	Amp	Appro Weigh #/Mft.
MV9015KTS100-2	2	.680"	.765"	.080"	.944"	150	678
MV9015KTS100-1	1	.718"	.803"	.080"	.982"	170	651
MV9015KTS100-1/0	1/0	.758"	.843"	.080"	1.022"	195	743
MV9015KTS100-2/0	2/0	.803"	.888"	.080"	1.067"	225	856
MV9015KTS100-3/0	3/0	.854"	.939"	.080"	1.118"	260	994
MV9015KTS100-4/0	4/0	.911"	.996"	.080"	1.178"	295	1168
MV9015KTS100-250	250 MCM	.967"	1.052"	.080"	1.242"	330	1357
MV9015KTS100-300	300 MCM	1.021"	1.126"	.080"	1.316"	360	1568
MV9015KTS100-350	350 MCM	1.072"	1.177"	.080"	1.367"	395	1759
MV9015KTS100-400	400 MCM	1.118"	1.223"	.080"	1.413"	420	1966
MV9015KTS100-500	500 MCM	1.202"	1.307"	.080"	1.497"	480	2308
MV9015KTS100-600	600 MCM	1.290"	1.395"	.080"	1.585"	520	2681
MV9015KTS100-750	750 MCM	1.394"	1.499"	.080"	1.689"	585	3215
MV9015KTS100-1000	1000 MCM	1.545"	1.692"	.110"	1.942"	675	4256

133% Insulation Level - 220 Mils

Sycor Part Number	AWG or MCM	Insul. Diam.	Shield Diam.	Jack Thick.	Appro O.D.	Amp	Appro Weigh #/Mft.
MV9015KTS133-2	2	.770"	.855"	.080"	1.034"	150	654
MV9015KTS133-1	1	.808"	.893"	.080"	1.072"	170	731
MV9015KTS133-1/0	1/0	.848"	.933"	.080"	1.112"	195	825
MV9015KTS133-2/0	2/0	.893"	.978"	.080"	1.157"	225	941
MV9015KTS133-3/0	3/0	.944"	1.029"	.080"	1.219"	260	1122
MV9015KTS133-4/0	4/0	1.001"	1.106"	.080"	1.296"	295	1320
MV9015KTS133-250	250 MCM	1.057"	1.162"	.080"	1.352"	330	1480
MV9015KTS133-300	300 MCM	1.111"	1.216"	.080"	1.406"	360	1674
MV9015KTS133-350	350 MCM	1.162"	1.267"	.080"	1.457"	395	1868
MV9015KTS133-400	400 MCM	1.208"	1.313"	.080"	1.503"	420	2057
MV9015KTS133-500	500 MCM	1.292"	1.397"	.080"	1.587"	480	2427
MV9015KTS133-600	600 MCM	1.380"	1.485"	.080"	1.675"	520	2807
MV9015KTS133-750	750 MCM	1.484"	1.589"	.110"	1.839"	585	3445
MV9015KTS133-1000	1000 MCM	1.635"	1.782"	.110"	2.032"	675	4408

Amperities 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.

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.

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