



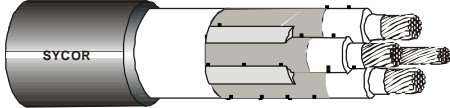
SYCOR

TECHNOLOGY INC.

Power Cable

Type MV-90, Armoured - 5 KV - 3 Conductor

XLP or EPR Insulation, PVC Jacket



CONSTRUCTION:

Shielded, three conductor cables having stranded, bare copper conductors; extruded semi-conducting strand shield; cross-linked polyethylene (XLP) or 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-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) or Ethylene Propylene Rubber (EPR), 90°C per ICEA S-66-524 section 3 and ICEA S-68-516 section 3.

INSULATION SHIELD:

An appropriate cable tape is applied over the conductor assembly to bind it together for armouring and jacketing and to cushion the armour.

ARMOUR:

The interlocked armour is formed from aluminum alloy or galvanized steel strips in such a manner that adjacent turns interlock with each other and form a round tube.

JACKET:

A heavy duty polyvinyl chloride jacket may be applied over the armour at the customer's option. The jacket meets the requirements of UL1569 and ICEA S-68-516 and S-66-524.

TESTING:

Finished cable is tested in accordance with and meets the requirements of ICEA S-66-524 and S-68-516, UL 1072 AND AEIC CS5 and CS6.

Sycor Part Number	AWG or MCM	Grnd	Insul. Thick	Approx. O.D. Unjack.	Approx. O.D. Jack.	Approx. Amp	Appro Weigh Unjack Steel	Appro Weigh Unjack Alum.	Appro Weigh Jack. Steel	Appro Weigh Jack. Alum.
MV905K100-83	8	3x12	.090"	1.040"	1.155"	59	830	575	945	700
MV905K100-63	6	3x10	.090"	1.130"	1.245"	79	1040	595	1175	920
MV905K100-43	4	3x10	.090"	1.230"	1.345"	105	1165	925	1300	1060
MV905K100-23	2	3x10	.090"	1.360"	1.480"	140	1375	1235	1525	1395
MV905K100-13	1	3x8	.090"	1.515"	1.640"	160	1800	1500	2000	1760
MV905K100-1/03	1/0	3x8	.090"	1.600"	1.740"	185	2145	1800	2360	2010
MV905K100-2/03	2/0	3x8	.090"	1.700"	1.830"	215	2520	2140	2755	2375
MV905K100-3/03	3/0	3x7	.090"	1.800"	1.945"	250	2900	2450	3200	2800
MV905K100-4/03	4/0	3x7	.090"	1.930"	2.075"	285	3550	2850	3800	3200
MV905K100-2503	250 MCM	3x7	.090"	2.065"	2.210"	320	4010	3540	4290	3820
MV905K100-3503	350 MCM	3x6	.090"	2.300"	2.475"	395	5520	4970	5950	5400
MV905K100-5003	500 MCM	3x5	.090"	2.580"	2.760"	485	6860	6260	7300	6700

Sycor Part Number	AWG or MCM	Grnd. AWG	Insul. Shield Diam.	Jack Thick.	Appro O.D.	Appro Amp	Appro Weigh #/Mft.
MV905/8KS133-63	6	6	.537"	.080"	1.350"	69	975
MV905/8KS133-43	4	6	.585"	.080"	1.455"	91	1216
MV905/8KS133-23	2	6	.645"	.080"	1.585"	125	1545
MV905/8KS133-13	1	4	.683"	.110"	1.725"	140	1785
MV905/8KS133-1/03	1/0	4	.723"	.110"	1.810"	165	2140
MV905/8KS133-2/03	2/0	4	.768"	.110"	1.910"	190	2590
MV905/8KS133-3/03	3/0	3	.819"	.110"	2.020"	220	3030
MV905/8KS133-4/03	4/0	3	.876"	.110"	2.140"	255	3545
MV905/8KS133-2503	250 MCM	3	.932"	.110"	2.260"	280	4025
MV905/8KS133-3003	300 MCM	2	.986"	.110"	2.375"	315	4610
MV905/8KS133-3503	350 MCM	2	1.037"	.110"	2.485"	360	5410
MV905/8KS133-4003	400 MCM	2	1.083"	.110"	2.585"	375	6240
MV905/8KS133-5003	500 MCM	1	1.187"	.140"	2.870"	425	7050
MV905/8KS133-6003	600 MCM	1	1.275"	.140"	3.060"	465	8265
MV905/8KS133-7503	750 MCM	1/0	1.379"	.140"	3.283"	525	10070
MV905/8KS133-10003	1000 MCM	1/0	1.530"	.140"	3.610"	590	12860

Amcapities 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.

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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