



MV-105 3C, EPR Insulated, PVC Jacketed 5 kV Copper Tape Shielded

Description

Medium voltage multi conductor, shielded power cable. Primary power and distribution circuits in industrial and commercial installations. True Triple extrusion system and closed handling raw materials system, to eliminate any contact with ambient, until extrusion process ends.

Approvals

UL listed as MV-105
UL 1072
ICEA S-93-639/NEMA WC74:
Shielded power cables 5,000 to 46,000V
ICEA S-97-682: utility
Shielded power cables 5,000 to 46,000V
AEIC CS8: extruded dielectric shielded
Power cables 5,000 to 46,000V

Construction

- Stranded soft annealed bare copper conductor, Class B per ASTM B496 or hard drawn Aluminum-1350 compacted class B per ASTM B 400.
- Semi conducting cross-linked polyethylene (XLPE) conductor shield.
- Thermoset Ethylene Propylene Rubber (EPR) insulation.
- XLPE Insulation shield, colored strings (black, red and white)
- Soft annealed uncoated copper tape, 5 mil thick, 25% min overlap.
- Optional ground wire - one or three soft annealed bare copper or covered conductors cabled with phase conductors.
- Black Oil Resistant, sunlight resistant and flame retardant Polyvinyl Chloride (PVC) compound jacket. *EPR/CPE jacket available upon request.

Temperature Rating

105°C Normal Operating Temperature

Voltage Rating

5kV 100% and 133% IL

Application

Power circuits in generating plants where line to ground faults current are within shield capabilities. May be used in wet or dry locations, installed in cable trays, raceways, duct and open air, aerielly or directly buried as permitted by NEC.



Sycor Part No	AWG	Strands	Cond. Diam.	100% and 133% Insulation Levels (90 mil)		Jack et Thic	Appr. O.D. (in)	Approx Weight	
				Ground Conductor				Copper	Aluminum
				Cu	Al				
MV1055KT3C-8	8	7	0.13	8	N/A	80	1.15	766	N/A
MV1055KT3C-6	6	7	0.17	6	6	80	1.23	943	769
MV1055KT3C-4	4	7	0.21	6	4	80	1.32	1166	889
MV1055KT3C-2	2	7	0.27	6	4	80	1.44	1497	1057
MV1055KT3C-1	1	19	0.30	4	4	80	1.51	1754	1199
MV1055KT3C-1/0	1/0	19	0.34	4	4	80	1.59	2029	1327
MV1055KT3C-2/0	2/0	19	0.38	4	2	110	1.74	2472	1589
MV1055KT3C-3/0	3/0	19	0.42	3	2	110	1.84	2926	1811
MV1055KT3C-4/0	4/0	19	0.48	3	2	110	1.95	3449	2045
MV1055KT3C-250	250	37	0.52	2	1	110	2.07	3966	2305
MV1055KT3C-300	300	37	0.57	2	1	110	2.18	4543	2551
MV1055KT3C-350	350	37	0.62	2	1	110	2.28	5121	2796
MV1055KT3C-400	400	37	0.66	1	1/0	110	2.37	5734	3078
MV1055KT3C-500	500	37	0.74	1	1/0	110	2.59	6946	3626
MV1055KT3C-600	600	61	0.81	1/0	2/0	140	2.84	8281	4294
MV1055KT3C-750	750	61	0.91	1/0	2/0	140	3.05	9931	4954
MV1055KT3C-1000	1000	61	1.06	1/0	3/0	140	3.37	12754	6120

*Available in 100% and 133% Insulation Levels.

Sycor Technology Inc., 1-2220 Argentia Road, Mississauga ON L5N 2K7

www.sycor.com 1-800-268-9444 sales@sycor.com

Sycor International Inc ©All Rights Reserved