



MV-105 3C, EPR Insulated, PVC Jacketed 8 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

8kV 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, aerially or directly buried as permitted by NEC.



Sycor Part No	AWG	Strands	Cond. Diam.	Ground Conductor AWG		Jacket Thick	Appr. O.D. (in)	Approx Weight Lbs./Mft.		Ground Conductor AWG		Jacket Thickness	Appr. O.D. (in)	Approx Weight Lbs./Mft.	
				Cu	Al			Copper	Aluminum	Cu	Al			Copper	Aluminum
MV1058KT3C-6	6	7	0.17	6	6	80	1.34	1055	881	6	6	80	1.45	1176	1001
MV1058KT3C-4	4	7	0.21	6	4	80	1.43	1285	1008	6	4	80	1.55	1413	1136
MV1058KT3C-2	2	7	0.27	6	4	80	1.55	1625	1185	6	4	80	1.67	1762	1321
MV1058KT3C-1	1	19	0.30	4	4	80	1.62	1887	1332	4	4	110	1.80	2140	1585
MV1058KT3C-1/0	1/0	19	0.34	4	4	110	1.76	2277	1576	4	4	110	1.88	2432	1730
MV1058KT3C-2/0	2/0	19	0.38	4	2	110	1.85	2645	1741	4	2	110	1.96	2786	1902
MV1058KT3C-3/0	3/0	19	0.42	3	2	110	1.95	3086	1971	3	2	110	2.06	3255	2139
MV1058KT3C-4/0	4/0	19	0.48	3	2	110	2.06	3618	2213	3	2	110	2.18	3794	2390
MV1058KT3C-250	250	37	0.52	2	1	110	2.19	4143	2482	2	1	110	2.30	4329	2668
MV1058KT3C-300	300	37	0.57	2	1	110	2.29	4728	2737	2	1	110	2.40	4922	2931
MV1058KT3C-350	350	37	0.62	2	1	110	2.39	5314	2989	2	1	110	2.50	5516	3190
MV1058KT3C-400	400	37	0.66	1	1/0	110	2.48	5933	3278	1	1/0	110	2.65	6234	3578
MV1058KT3C-500	500	37	0.74	1	1/0	140	2.76	7334	4014	1	1/0	140	2.88	7566	4246
MV1058KT3C-600	600	61	0.81	1/0	2/0	140	2.95	8518	4531	1/0	2/0	140	3.07	8763	4777
MV1058KT3C-750	750	61	0.91	1/0	2/0	140	3.16	10184	5207	1/0	2/0	140	3.27	10445	5467
MV1058KT3C-1000	1000	61	1.06	1/0	3/0	140	3.49	13031	6397	2/0	3/0	140	3.60	13316	6682

*Ground Conductor may be divided into 3, one in each interstice

**Available in 100% and 133% Insulation Levels.

Cables that comply with 8KV 10090 can also be marked 5K/133%.

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