



# MV-105 3C, EPR Insulated, PVC Jacketed 25 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

25kV 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.	100% Insulation Level (260 mil)					133% Insulation Levels (320 mil)						
				Ground		Jacket Thickness	Appr. O.D. (In)	Approx Weight		Ground		Jacket Thickness	Appr. O.D. (In)	Approx Weight	
				Cu	Al			Copper	Aluminum	Cu	Al			Copper	Aluminum
MV10525KT3C-1	1	19	0.30	4	4	110	2.33	2970	2414	-	-	-	-	-	-
MV10525KT3C-1/0	1/0	19	0.34	4	4	110	2.41	3290	2588	4	4	110	2.73	3886	3184
MV10525KT3C-2/0	2/0	19	0.38	4	2	110	2.50	3675	2791	4	2	140	2.88	4469	3585
MV10525KT3C-3/0	3/0	19	0.42	3	2	110	2.65	4272	3157	3	2	140	2.98	5002	3887
MV10525KT3C-4/0	4/0	19	0.48	3	2	140	2.83	5032	3628	3	2	140	3.10	5613	4209
MV10525KT3C-250	250	37	0.52	2	1	140	2.95	5622	3961	2	1	140	3.22	6224	4563
MV10525KT3C-300	300	37	0.57	2	1	140	3.06	6264	4272	2	1	140	3.33	6885	4894
MV10525KT3C-350	350	37	0.62	2	1	140	3.16	6902	4576	2	1	140	3.42	7541	5216
MV10525KT3C-400	400	37	0.66	1	1/0	140	3.25	7570	4914	1	1/0	140	3.52	8226	5570
MV10525KT3C-500	500	37	0.74	1	1/0	140	3.41	8793	5472	1	1/0	140	3.68	9479	6158
MV10525KT3C-600	600	61	0.81	1/0	2/0	140	3.60	10059	6072	1/0	2/0	140	3.94	10961	6974
MV10525KT3C-750	750	61	0.91	1/0	2/0	140	3.88	11993	7016	1/0	2/0	140	4.15	12761	7784

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

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

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