MV-105 3C, EPR Insulated, PVC Jacketed 35 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
35kV 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.

				100% Insulation Level (345 mil)						133% Insulation Levels (420 mil)					
Sycor Part No	AWG	Strands	Cond. Diam.	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
MV10535KT3C-1/0	1/0	19	0.34	4	4	140	2.91	4294	3593	4	4	140	3.25	5046	4344
MV10535KT3C-2/0	2/0	19	0.38	4	2	140	3.00	4709	3826	4	2	140	3.33	5480	4596
MV10535KT3C-3/0	3/0	19	0.42	3	2	140	3.10	5250	4135	3	2	140	3.43	6043	4928
MV10535KT3C-4/0	4/0	19	0.48	3	2	140	3.21	5869	4465	3	2	140	3.55	6688	5283
MV10535KT3C-250	250	37	0.52	2	1	140	3.33	6489	4828	2	1	140	3.67	7335	5674
MV10535KT3C-300	300	37	0.57	2	1	140	3.44	7159	5167	2	1	140	3.77	8029	6037
MV10535KT3C-350	350	37	0.62	2	1	140	3.54	7822	5497	2	1	140	3.94	8897	6571
MV10535KT3C-400	400	37	0.66	1	1/0	140	3.63	8514	5858	1	1/0	140	4.03	9614	6958
MV10535KT3C-500	500	37	0.74	1	1/0	140	3.86	9958	6638	1	1/0	140	4.20	10923	7602
MV10535KT3C-600	600	61	0.81	1/0	2/0	140	4.05	11280	7293	1/0	2/0	140	4.39	12288	8301
MV10535KT3C-750	750	61	0.91	1/0	2/0	140	4.26	13096	8119	1/0	2/0	140	4.59	14149	9127

*** Ground Conductor may be divided into 3, one in each interstice**
****Available in 100% and 133% Insulation Levels.**

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