MV-105 3C, EPR Insulated, PVC Jacketed 15 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

Temperature Rating
105°C Normal Operating Temperature

Voltage Rating
15kV 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 (175 mil)						133% Insulation Levels (220 mil)					
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
MV10515KT3C-2	2	7	0.27	6	4	110	1.89	2084	1643	6	4	110	2.09	2385	1444
MV10515KT3C-1	1	19	0.30	4	4	110	1.95	2362	1807	4	4	110	2.16	2672	2116
MV10515KT3C-1/0	1/0	19	0.34	4	4	110	2.03	2662	1961	4	4	110	2.24	2982	2281
MV10515KT3C-2/0	2/0	19	0.38	4	2	110	2.12	3025	2142	4	2	110	2.32	3357	2473
MV10515KT3C-3/0	3/0	19	0.42	3	2	110	2.22	3504	2389	3	2	110	2.42	3850	2735
MV10515KT3C-4/0	4/0	19	0.48	3	2	110	2.33	4056	2652	3	2	110	2.53	4433	3021
MV10515KT3C-250	250	37	0.52	2	1	110	2.45	4604	2942	2	1	110	2.70	5090	3434
MV10515KT3C-300	300	37	0.57	2	1	110	2.61	5299	3307	2	1	110	2.88	5911	3910
MV10515KT3C-350	350	37	0.62	2	1	140	2.77	6079	3753	2	1	140	2.98	6535	4193
MV10515KT3C-400	400	37	0.66	1	1/0	140	2.87	6723	4067	1	1/0	140	3.07	7204	4528
MV10515KT3C-500	500	37	0.74	1	1/0	140	3.03	7904	4583	1	1/0	140	3.24	8420	5062
MV10515KT3C-600	600	61	0.81	1/0	2/0	140	3.22	9121	5134	1/0	2/0	140	3.43	9668	5641
MV10515KT3C-750	750	61	0.91	1/0	2/0	140	3.43	10824	5847	1/0	2/0	140	3.63	11422	6457
MV10515KT3C-1000	1000	61	1.06	2/0	3/0	140	3.82	13907	7273	2/0	3/0	140	4.02	14584	7885

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

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