



MV-105 EPR Insulated, PVC Jacketed 15 kV Copper Tape Shielded

Description

Medium voltage 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.
- Semi conducting cross-linked polyethylene (XLPE) conductor shield.
- Thermoset ethylene propylene rubber (EPR) insulation.
- Semi Conducting cross linked Polyethylene XLPE Insulation shield
- Soft annealed bare copper tape 5 mil thick 25% minimum overlap metallic shield.
- Black Oil Resistant, sunlight resistance and flame retardant polyvinyl chloride (PVC) jacket.

Temperature Rating

105°C - 250°C

Voltage Rating

15 kV 100% and 133% IL

Application

Power circuits in generating plants where line to ground fault 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	Nom. Diam. Over Insul.	Jacket Thickn ess	Appr. O.D. (in)	100% Insulation Level (175 mil)		133% Insulation Levels (220 mil)		Approx Weight		
							Approx Weight		Nom. Diam. Over Insul	Jacket Thicknes s	Appr. O.D. (in)	Approx Weight	
							Copper	Aluminum				Copper	Aluminum
MV10515KT100-2	2	7	0.27	0.66	80	0.92	593	451	0.75	80	1.01	675	532
MV10515KT100-1	1	19	0.30	0.69	80	0.95	666	486	0.78	80	1.04	749	569
MV10515KT100-1/0	1/0	19	0.34	0.73	80	0.99	757	530	.82	80	1.08	843	616
MV10515KT100-2/0	2/0	19	0.38	0.77	80	1.03	868	582	0.86	80	1.12	957	671
MV10515KT100-3/0	3/0	19	0.42	0.82	80	1.07	1006	645	0.91	80	1.16	1099	738
MV10515KT100-4/0	4/0	19	0.48	0.87	80	1.12	1175	720	0.96	80	1.22	1272	817
MV10515KT100-250	250	37	0.52	0.92	80	1.18	1329	791	1.01	80	1.29	1456	918
MV10515KT100-300	300	37	0.57	0.97	80	1.23	1515	871	1.06	80	1.34	1647	1002
MV10515KT100-350	350	37	0.62	1.02	80	1.30	1726	973	1.11	80	1.39	1837	1083
MV10515KT100-400	400	37	0.66	1.06	80	1.34	1909	1049	1.15	80	1.43	2023	1163
MV10515KT100-500	500	37	0.74	1.14	80	1.42	2270	1195	1.23	80	1.51	2389	1314
MV10515KT100-600	600	61	0.81	1.23	80	1.51	2637	1346	1.32	80	1.60	2763	1472
MV10515KT100-750	750	61	0.91	1.32	80	1.60	3164	1551	1.41	110	1.76	3402	1789
MV10515KT100-1000	1000	61	1.06	1.47	110	1.82	4145	1995	1.56	110	1.94	4347	2197

*Available in 100% and 133% Insulation Levels.

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