



MV-105 EPR Insulated, CPE 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 + suitable binder tape.
- Black Oil Resistant, flame retardant thermosetting chlorinated polyethylene (CPE) compound jacket.

Temperature Rating

105°C - Normal Operating Temperature.

Voltage Rating

15kV 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 Thickness	Appr. O.D. (in)	100% Insulation Level (175 mil)		133% Insulation Levels (220 mil)		Approx Weight		
							Approx Weight		Nom. Diam. Over	Jacket Thickness	Appr. O.D. (in)	Approx Weight	
							Copper	Aluminum				Copper	Aluminum
MV105C15KT100-2	2	7	0.27	0.66	80	0.93	605	463	0.75	80	1.02	688	545
MV105C15KT100-1	1	19	0.30	0.69	80	0.96	678	498	0.78	80	1.05	763	583
MV105C15KT100-1/0	1/0	19	0.34	0.73	80	1.00	770	543	0.82	80	1.09	857	631
MV105C15KT100-2/0	2/0	19	0.38	0.77	80	1.04	881	595	0.86	80	1.13	972	686
MV105C15KT100-3/0	3/0	19	0.42	0.82	80	1.08	1020	659	0.91	80	1.18	1114	753
MV105C15KT100-4/0	4/0	19	0.48	0.87	80	1.14	1190	735	0.96	80	1.23	1288	833
MV105C15KT100-250	250	37	0.52	0.92	80	1.19	1345	807	1.01	80	1.31	1473	935
MV105C15KT100-300	300	37	0.57	0.97	80	1.24	1532	887	1.06	80	1.36	1665	1020
MV105C15KT100-350	350	37	0.62	1.02	80	1.31	1744	990	1.11	80	1.40	1855	1102
MV105C15KT100-400	400	37	0.66	1.06	80	1.35	1927	1067	1.15	80	1.44	2042	1182
MV105C15KT100-500	500	37	0.74	1.14	80	1.43	2289	1214	1.23	80	1.52	2410	1334
MV105C15KT100-600	600	61	0.81	1.23	80	1.52	2657	1366	1.32	80	1.61	2784	1494
MV105C15KT100-750	750	61	0.91	1.32	80	1.61	3185	1572	1.41	110	1.77	3428	1815
MV105C15KT100-1000	1000	61	1.06	1.47	110	1.83	4173	2023	1.56	110	1.95	4376	2226

*Available in 100% and 133% Insulation Levels.