



MV-90 XLPE Insulated, PVC Jacketed 8 kV Wire 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-90.
UL 1072
ICEA S-93-639/NEMA WC74 - Standard for 5kV - 40 kV Shielded power cables
ICEA S-97-682 - Standard for 5K - 40kV Shielded power cables
AEIC CS8 Extruded dielectric shielded power cables 5kV - 40kV.

Construction

- Soft annealed bare copper compacted conductor, Class B per ASTM B496.
- Semi conducting cross-linked polyethylene (XLPE) conductor shield.
- Solid soft annealed uncoated copper per ASTM B3, helically applied and uniformly spaced.
- Semi conducting cross-linked polyethylene (XLPE) insulation.
- Black Oil Resistant, sunlight resistant and flame retardant Polyvinyl Chloride (PVC) compound jacket

Temperature Rating

Normal Operating Temperature - 90°C

Voltage Rating

8kV 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.



Optional

Sycor Part No	AWG	Strands	Cond. Diam. (in)	Nom. Diam. Over Insulation	Jacket Thickness	Appr. O.D. (in)	100% Insulation Level (115 mil)		133% Insulation Levels (140 mil)			Approx Weight Lbs./Mft.	
							Approx Weight Lbs./Mft.		Nom. Diam. Over Insulation	Jacket Thickness	Appr. O.D. (in)	Approx Weight Lbs./Mft.	
							Copper	Aluminum				Copper	Aluminum
MV908KS100-6	6	7	0.17	0.43	60	0.68	257	200	0.48	60	0.73	280	224
MV908KS100-4	4	7	0.21	0.48	60	0.73	321	231	0.53	60	0.78	345	256
MV908KS100-2	2	7	0.27	0.53	60	0.78	422	279	0.58	80	0.87	482	339
MV908KS100-1	1	19	0.30	0.56	60	0.81	485	305	0.61	80	0.90	548	368
IV908KS100-1/1	1/0	19	0.34	0.60	80	0.89	601	374	0.65	80	0.94	631	405
IV908KS100-2/1	2/0	19	0.38	0.64	80	0.93	703	416	0.69	80	0.98	734	448
IV908KS100-3/1	3/0	19	0.42	0.69	80	0.98	829	469	0.74	80	1.03	863	502
IV908KS100-4/1	4/0	19	0.48	0.74	80	1.03	986	532	0.79	80	1.08	1021	566
IV908KS100-25	250	37	0.52	0.80	80	1.08	1136	598	0.85	80	1.13	1172	635
IV908KS100-30	300	37	0.57	0.85	80	1.13	1310	666	0.90	80	1.18	1349	704
IV908KS100-35	350	37	0.62	0.89	80	1.18	1485	732	0.94	80	1.23	1524	771
IV908KS100-40	400	37	0.66	0.93	80	1.22	1657	797	0.98	80	1.27	1698	838
IV908KS100-50	500	37	0.74	1.01	80	1.32	2021	946	1.06	80	1.37	2066	990
IV908KS100-60	600	61	0.81	1.10	80	1.41	2376	1085	1.15	80	1.46	2423	1132
IV908KS100-75	750	61	0.91	1.19	80	1.50	2880	1267	1.24	80	1.55	2930	1317
IV908KS100-100	1000	61	1.06	1.35	80	1.66	3718	1568	1.40	110	1.77	3876	1726

*Available in 100% and 133% Insulation Levels.
Cables comply with 8 kV 1000% can also be marked 5kV 133%.