PRIORITY WIRE & CABLE, INC.

Single Conductor 2.4KV Non-Shielded, MV-90

Part Number	Conductor Size	Insulation Thickness	Conductor Diameter	Insulation Diameter	Jacket Diameter	Cable Weight	Ampacity	
							90°C* in Duct	90°C** in Air
	AWG/kcmil	inches	inches	inches	inches	lbs/kft	amps	amps
4-012.4KVNSEP	4	0.125	0.215	0.520	0.690	311	110	145
2-012.4KVNSEP	2	0.125	0.266	0.570	0.740	407	145	190
1-012.4KVNSEP	1	0.125	0.299	0.600	0.770	472	170	225
1/0-012.4KVNSEP	1/0	0.125	0.341	0.640	0.810	556	195	260
2/0-012.4KVNSEP	2/0	0.125	0.376	0.680	0.850	655	220	300
3/0-012.4KVNSEP	3/0	0.125	0.423	0.730	0.920	806	250	345
4/0-012.4KVNSEP	4/0	0.125	0.479	0.780	0.980	961	290	400
250-012.4KVNSEP	250	0.140	0.522	0.860	1.090	1156	320	445
350-012.4KVNSEP	350	0.140	0.622	0.960	1.190	1510	385	550
500-012.4KVNSEP	500	0.140	0.742	1.080	1.310	2027	470	695
750-012.4KVNSEP	750	0.155	0.917	1.290	1.550	2990	585	900
1000-012.4KVNSEP	1000	0.155	1.071	1.450	1.710	3816	670	1075

All values are nominal and subject to correction
* For three cables in underground duct based on earth temperature of 20°C, 100% load factor, RHO of 90 per NEC table 310.60(C)(77)
'** For single cable isolated in air of 40°C per NEC table 310.60(C)(69)

Application: 2.4KV Non-shielded MV-90 power cable is primarily used for power circuits in commercial, industrial, refinery and petro-chemical plants; utility power generation and substations. The cable can be installed in wet or dry applications in cable tray for sizes 1/0 & larger, duct and in open air. The cable is approved for temperatures up to 90°C and voltages up to 2400 volts applications.

Conductors: Class B stranded soft drawn or annealed copper per ASTM B496

Conductor Shield: Extruded thermoset semiconducting shield, which is free stripping from the conductor and bonded to the insulation

Insulation: Natural high dielectric strength EPR-based insulation, combined with other materials and agents that enhance the electrical and mechanical characteristics assuring extended cable life

Jacket: Black sunlight resistant, non-migrating, polyvinyl chloride (PVC) or chlorinated polyethylene (CPE) jacket applied over the insulation

Standards: UL 1072
ICEA S-96-659 (5kV)
UL 1685 Vertical Tray Flame Test

1-800-945-5542