

## 2.4kV Nonshielded 1/C EPR MV-90 POWER

Medium Voltage Commercial & Industrial Cables



### Description

Single conductor cable with stranded copper conductor, extruded thermosetting semiconducting conductor shield, high dielectric strength EPROTENAX® EPR insulation, and an overall non-migrating PVC jacket.

### Specifications

**ICEA**- ICEA S-96-659  
**UL**- UL-1072

### Ratings

Type MV-90  
 For CT USE (1/0 AWG & larger)  
 Oil Resistant  
 Sunlight Resistant

**IEEE**- IEEE 383 Flame Test

For 90°C continuous, 130°C emergency,  
 250°C short-circuit operation.

### Options

- Aluminum conductors
- Strandseal®
- Compressed stranded conductors
- Colored Jacket
- CPE, LLDPE, or LSOH Jacket
- Multiplexed

### Design Parameters

**CONDUCTOR:** Class B Compact concentric strand soft drawn annealed copper per ASTM.

**CONDUCTOR SHIELD:** Extruded thermosetting semiconducting shield which is free stripping from the conductor and bonded to the insulation.

**INSULATION:** Natural high dielectric strength EPROTENAX® 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) jacket applied over the insulation.

### Installation



Conduit in Air



Underground Duct



Isolated in Air



In Cable Tray



Wet Locations



Dry Locations



With Messenger



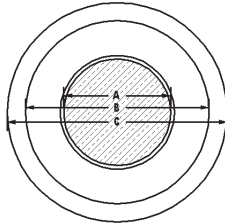
Industrial



Airport Lighting

## 2.4kV Nonshielded 1/C EPR MV-90 POWER

Medium Voltage Commercial & Industrial Cables



Product Number	Conductor	Insulation Thickness (mils)	Insulation Diameter (in)			Jacket Diameter (in)	Cable Weight (lbs/100ft)	Minimum Bending Radius (in)	† Ampacity (Amps)	
			(A)	(B)	(C)				90°C In Duct	90°C In Air
<b>2.4kV Nonshielded Copper</b>										
QI4540A	2 AWG CU	125	0.266	0.57	0.74	407	3	145	190	
QI6540A	1 AWG CU	125	0.299	0.60	0.77	472	4	170	225	
QI8540A	1/0 AWG CU	125	0.341	0.64	0.81	556	4	195	260	
QI9540A	2/0 AWG CU	125	0.376	0.68	0.85	655	4	220	300	
QIA540A	3/0 AWG CU	125	0.423	0.73	0.92	806	4	250	345	
QIB540A	4/0 AWG CU	125	0.479	0.78	0.98	961	5	290	400	
QIC540A	250 MCM CU	140	0.522	0.86	1.09	1156	6	320	445	
QID540A	350 MCM CU	140	0.622	0.96	1.19	1510	6	385	550	
QIE540A	500 MCM CU	140	0.742	1.08	1.31	2027	7	470	695	
QIF540A	750 MCM CU	155	0.917	1.29	1.55	2990	8	585	900	

†Ampacities are based on the following:

**PRODUCT NOTES:**

<sup>5</sup> Items are Prysmian authorized stock.  
The above dimensions are approximate and subject to normal manufacturing tolerances.

**Three Phase Operation**

In Duct (2011 NEC Table 310.60(C)(77)): Three single cables in plastic duct, direct-buried, 90°C conductor temperature, 20°C ambient temperature, earth RHO of 90°C-cm/Watt, and 100% load factor.

Isolated in Air (2011 NEC Table 310.60(C)(69)): Single conductor cable, 90°C conductor temperature, and 40°C ambient temperature, and shields short-circuited.

In Cable Tray: Per 2011 NEC Article 392.80(B)(2)(b), for single conductor cables, sizes 1/0 AWG and larger, installed in a single layer in an uncovered cable tray, with a maintained space of not less than one cable diameter between individual conductors, the ampacities shall not exceed "Isolated in Air" values noted above.