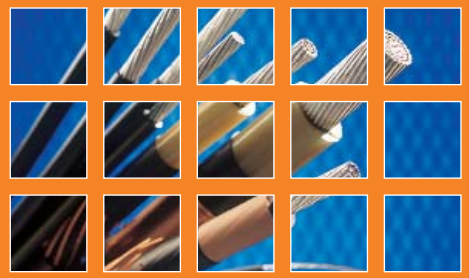
PRYSMIAN CABLES & SYSTEMS

2.4kV NONSHIELDED 1/C EPR MV-90 Power



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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	Ratings
ICEA ICEA S-96-659	
UL UL-1072	Type MV-90 For CT USE(1/0 AWG and larger) Oil Resistant Sunlight Resistant
IEEE IEEE 383 Flame Test	

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

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.

Options

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

Installations

- Conduit in Air
- Underground Duct
- Isolated in Air
- In Cable Tray
- Wet Locations
- Dry Locations
- With Messenger
- Industrial
- Airport Lighting

Prysmian Power Cables and Systems
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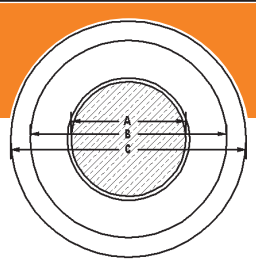

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Product Number	Conductor	Insulation Thickness (mils)	Conductor Diameter (in.) (A)	Insulation Diameter (in.) (B)	Jacket Diameter (in.) (C)	Cable Weight (lbs/kft)	Minimum Bending Radius (in.)	†Ampacity (Amps) 90°C In Duct	†Ampacity (Amps) 90°C In Air
2.4kV Nonshielded Copper									
QI254ØA	4 AWG CU	125	0.215	0.52	0.69	311	3	110	145
QI454ØA	2 AWG CU	125	0.266	0.57	0.74	407	3	145	190
QI654ØA	1 AWG CU	125	0.299	0.60	0.77	472	4	170	225
QI854ØA	1/0 AWG CU	125	0.341	0.64	0.81	556	4	195	260
QI954ØA	2/0 AWG CU	125	0.376	0.68	0.85	655	4	220	300
QIA54ØA	3/0 AWG CU	125	0.423	0.73	0.92	806	4	250	345
QIB54ØA	4/0 AWG CU	125	0.479	0.78	0.98	961	5	290	400
QIC54ØA	250 MCM CU	140	0.522	0.86	1.09	1156	6	320	445
QID54ØA	350 MCM CU	140	0.622	0.96	1.19	1510	6	385	550
QIE54ØA	500 MCM CU	140	0.742	1.08	1.31	2027	7	470	695
QIF54ØA	750 MCM CU	155	0.917	1.29	1.55	2990	8	585	900
QIG54ØA	1000 MCM CU	155	1.071	1.45	1.71	3816	9	670	1075

†Ampacities are based on the following:

Three Phase Operation

In Duct (NEC Table 310-77): 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 (NEC Table 310-69): Single conductor cable, 90°C conductor temperature, and 40°C ambient temperature, and shields short-circuited.

In Cable Tray: Per NEC Article 318-13, for single conductor cables, sizes 1/0 AWG and larger, installed in a single layerin an uncovered cable tray, with a maintained space of not less than one cable diameter between individual conductors, the ampacities shall not exceed the allowable ampacities stated in Table 310-69 (Copper), "Isolated in Air" values noted above.

Information Subject to Change without Notice.

PRODUCT NOTES:

▲ Items are Prysmian authorized stock.

The above dimensions are approximate and subject to normal manufacturing tolerances.

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