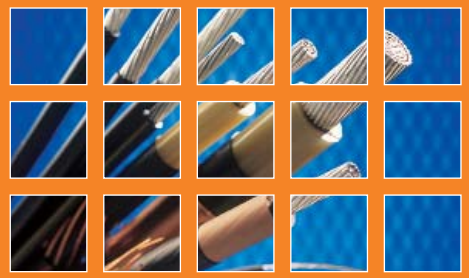
2.4kV NONSHIELDED 3/C EPR MC MV-105 Power



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Description

Three conductor cable with stranded copper conductors, thermosetting semiconducting conductor shield, high dielectric strength EPROTENAX™ EPR insulation, cabled with fillers and grounding conductor(s), overall binder tape, aluminum interlocked armor (AIA) or galvanized steel interlocked armor (GSIA), and overall PVC jacket.

Specifications	Ratings
ICEA ICEA S-96-659	
UL UL1072	Type MV-105-MC Sunlight Resistant For CT USE
IEEE IEEE 383 Flame Test	

For 105°C continuous, 140°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.

Grounding Conductors
- Bare stranded copper conductor, one in each interstice, per UL, ICEA, and ASTM. UL listed cables must have grounding conductor(s).

Assembly
- Insulated conductors cabled with fillers and grounding conductors (as specified), forming a firm and cylindrical cable core. A binder tape is applied to maintain core symmetry and mechanical stability.

Armor
- Aluminum interlocked armor (AIA) or galvanized steel interlocked armor (GSIA) applied over the cable core.

Jacket
- Black sunlight resistant polyvinyl chloride (PVC) jacket tightly applied over the armor.

Options

- Aluminum conductors
- Strandseal®
- Compressed stranded conductors
- One grounding conductor
- Colored Jacket
- CPE, LLDPE, or LSOH Jacket
- Oil Resistant jacket

Installations

- Conduit in Air
- Direct Buried
- Underground Duct
- Isolated in Air
- In Cable Tray
- Wet Loctations
- Dry Loctations
- With Messenger
- Industrial

Prysmian Power Cables and Systems
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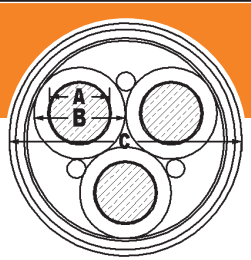

NONSHIELDED 3/C EPR MC MV-105 Power

2.4kV 133%

Product Number	Conductor	Insulation Thickness (mils)	Ground Wires		Conductor Diameter (in.)	Insulation Diameter (in.)	Jacket Diameter (in.)	Cable Weight (lbs/kft)	Minimum Bending Radius (in.)	†Ampacity (Amps)	
			No.	Size	(A)	(B)	(C)			‡105°C In Duct	‡105°C In Air
2.4kV 133% Copper Three Conductor AIA											
QI244ØA	4 AWG CU	115	3	10 AWG	0.215	0.50	1.43	1111	10	110	115
QI444ØA	2 AWG CU	115	3	10 AWG	0.266	0.55	1.54	1417	11	145	154
QI644ØA	1 AWG CU	115	3	8 AWG	0.299	0.58	1.61	1621	12	165	180
QI844ØA	1/0 AWG CU	115	3	8 AWG	0.341	0.62	1.72	1922	13	190	205
QI944ØA	2/0 AWG CU	115	3	8 AWG	0.376	0.66	1.80	2290	13	220	240
QIA44ØA	3/0 AWG CU	115	3	7 AWG	0.423	0.71	1.92	2738	14	250	280
QIB44ØA	4/0 AWG CU	115	3	7 AWG	0.479	0.76	2.04	3230	15	285	320
QIC44ØA	250 MCM CU	115	3	7 AWG	0.522	0.81	2.14	3671	16	315	355
QID44ØA	350 MCM CU	115	3	6 AWG	0.622	0.91	2.39	4875	17	380	440
QIE44ØA	500 MCM CU	115	3	5 AWG	0.742	1.03	2.65	6529	19	460	545
QIF44ØA	750 MCM CU	115	3	4 AWG	0.917	1.21	3.04	9344	22	570	685
QIG44ØA	1000 MCM CU	115	3	4 AWG	1.071	1.37	3.40	12044	24	645	790

†Ampacities are based on the following:

Three Phase Operation

In Duct (NEC Table 310-79): Three-conductor cable in plastic duct, direct-buried, 105°C conductor temperature, 20°C ambient temperature, earth RHO of 90°C-cm/Watt, and 100% load factor.

Isolated in Air (NEC Table 310-71): Three-conductor cable, 105°C conductor temperature, and 40°C ambient temperature.

In Cable Tray: Per NEC Article 318-13, for multi-conductor cables installed in a single layer in an uncovered cable tray, with maintained spacing of not less than one cable diameter between cables, the ampacities shall not exceed the allowable ampacities stated in Table 310-71 (Copper), "Isolated in Air" values noted above.

‡EPROTENAX™ EPR-insulated cables are capable of operating at 105°C. However, the maximum operating temperature of the cable should be based on the maximum operating temperature of the cable accessories to be used.

Information Subject to Change without Notice.

PRODUCT NOTES:

▲ Items are Prysmian authorized stock.

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

PRYSMIAN CABLES & SYSTEMS

1-800-845-8507 (US)
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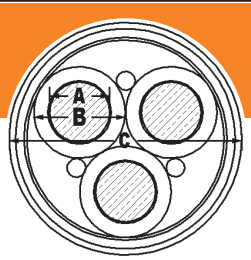

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			No.	Size	(A)	(B)	(C)			‡105°C In Duct	‡105°C In Air
2.4kV 133% Copper Three Conductor GSIA											
QI246ØA	4 AWG CU	115	3	10 AWG	0.215	0.50	1.41	1343	10	110	115
QI446ØA	2 AWG CU	115	3	10 AWG	0.266	0.55	1.52	1670	11	145	154
QI646ØA	1 AWG CU	115	3	8 AWG	0.299	0.58	1.59	1888	12	165	180
QI846ØA	1/0 AWG CU	115	3	8 AWG	0.341	0.62	1.70	2206	12	190	205
QI946ØA	2/0 AWG CU	115	3	8 AWG	0.376	0.66	1.78	2589	13	220	240
QIA46ØA	3/0 AWG CU	115	3	7 AWG	0.423	0.71	1.91	3156	14	250	280
QIB46ØA	4/0 AWG CU	115	3	7 AWG	0.479	0.76	2.03	3678	15	285	320
QIC46ØA	250 MCM CU	115	3	7 AWG	0.522	0.81	2.13	4146	15	315	355
QID46ØA	350 MCM CU	115	3	6 AWG	0.622	0.91	2.38	5404	17	380	440
QIE46ØA	500 MCM CU	115	3	5 AWG	0.742	1.03	2.64	7123	19	460	545
QIF46ØA	750 MCM CU	115	3	4 AWG	0.917	1.21	3.03	10038	22	570	685
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