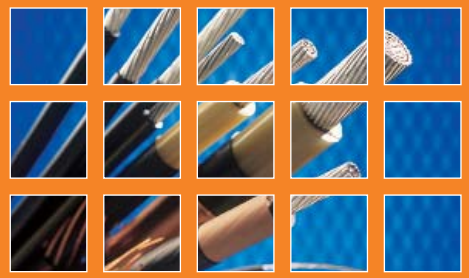
PRYSMIAN CABLES & SYSTEMS 5-35kV 1/C EPR MV-105 Power (Tape Shield)



2009.11.09

Description

Single conductor cable with stranded copper or aluminum conductor, triple extruded insulation system consisting of a thermosetting semiconducting conductor shield, high dielectric strength EPROTENAX™ EPR insulation, thermosetting semiconducting insulation shield, helically applied bare copper tape shield, and black PVC jacket.

Specifications		Ratings
AEIC	AEIC CS8*	
ICEA	ICEA S-93-639	
ICEA	ICEA S-97-682	
UL	UL 1072	Type MV-105 Sunlight Resistant For CT USE (1/0 AWG and Larger)
IEEE	IEEE 383 Flame Test	(1/0 AWG and Larger)
IEEE	IEEE 1202 Flame Test	(250 MCM and Larger)

For 105°C continuous, 140°C emergency, 250°C short-circuit operation.

*Due to a conflict between ICEA S-97-682 and AEIC CS8, all diameters will be in accordance with ICEA S-97-682 only.

Design Parameters

Conductor

- Class B compact concentric strand aluminum alloy 1350 or compact concentric 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.

Insulation Shield

- Extruded thermosetting semiconducting shield with controlled adhesion to the insulation providing the required balance between electrical integrity and ease of stripping.

Metallic Shield

- Helically applied non-magnetic copper tape(s) over the insulation shield with a minimum overlap of 25%.

Jacket

- Black sunlight resistant polyvinyl chloride (PVC) jacket tightly applied over the copper tape.

Options

- Strandseal®
- Compressed stranded conductors
- Colored Jackets
- CPE, LLDPE, or LSOH Jacket
- Multiplex cables
- Oil Resistant Jacket

Installations

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

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www.prysmiancanada.com

United States: 700 Industrial Drive • Lexington, South Carolina 29072
Canada: 375 rue St-Louis • Saint-Jean-sur-Richelieu • Quebec, Canada J3B 1Y6
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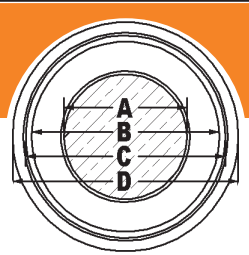

1/C EPR MV-105 Power (Tape Shield)

5kV
100% | 133%

Product Number	Conductor	Insulation Thickness (mils)	Conductor Diameter (in.) (A)	Insulation Diameter (in.) (B)	Insulation Shield Diameter (in.) (C)	Jacket Diameter (in.) (D)	Cable Weight (lbs/kft)	Minimum Bending Radius (in.)	†Ampacity (Amps) ‡105°C In Duct	†Ampacity (Amps) ‡105°C In Air
5kV 100% Copper One Conductor										
QJ241CA	4 AWG CU	90	0.215	0.44	0.50	0.63	316	8	120	160
QJ441CA	2 AWG CU	90	0.266	0.49	0.55	0.68	414	9	155	215
QJ641CA	1 AWG CU	90	0.299	0.53	0.58	0.72	480	9	180	250
QJ841CA	1/0 AWG CU	90	0.341	0.57	0.63	0.76	566	10	210	290
QJ941CA	2/0 AWG CU	90	0.376	0.60	0.66	0.79	665	10	235	330
QJA41CA	3/0 AWG CU	90	0.423	0.66	0.71	0.84	792	11	270	385
QJB41CA	4/0 AWG CU	90	0.479	0.71	0.76	0.93	974	12	310	445
QJC41CA	250 MCM CU	90	0.522	0.76	0.81	0.98	1116	12	345	495
QJD41CA	350 MCM CU	90	0.622	0.81	0.91	1.08	1468	13	415	615
QJE41CA	500 MCM CU	90	0.742	0.91	1.03	1.20	1982	15	505	775
QJF41CA	750 MCM CU	90	0.917	1.16	1.22	1.38	2861	17	630	1000
QJG41CA	1000 MCM CU	90	1.071	1.32	1.37	1.53	3676	19	720	1200
5kV 133% Copper One Conductor										
QK241CA	4 AWG CU	115	0.215	0.49	0.55	0.68	347	9	120	160
▲ QK441CA	2 AWG CU	115	0.266	0.54	0.60	0.73	447	9	155	215
QK641CA	1 AWG CU	115	0.299	0.58	0.63	0.77	514	10	180	250
▲ QK841CA	1/0 AWG CU	115	0.341	0.62	0.68	0.81	601	10	210	290
▲ QK941CA	2/0 AWG CU	115	0.376	0.65	0.71	0.84	702	11	235	330
QKA41CA	3/0 AWG CU	115	0.423	0.70	0.76	0.92	857	12	270	385
▲ QKB41CA	4/0 AWG CU	115	0.479	0.76	0.81	0.98	1016	12	310	445
▲ QKC41CA	250 MCM CU	115	0.522	0.81	0.86	1.03	1160	13	345	495
▲ QKD41CA	350 MCM CU	115	0.622	0.91	0.96	1.13	1516	14	415	615
▲ QKE41CA	500 MCM CU	115	0.742	1.03	1.08	1.25	2034	15	505	775
▲ QKF41CA	750 MCM CU	115	0.917	1.21	1.27	1.43	2920	18	630	1000
QKG41CA	1000 MCM CU	115	1.071	1.37	1.42	1.58	3742	19	720	1200

†Ampacities are based on the following:

Information Subject to Change without Notice.

PRODUCT NOTES:

▲ Items are Prysmian authorized stock.

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

Three Phase Operation

In Duct (NEC Table 310-77): Three single cables in plastic duct, direct-buried, 105°C conductor temperature, 20°C ambient temperature, earth RHO of 90°C-cm/Watt, 100% load factor, and shields short-circuited.

Isolated in Air (NEC Table 310-69): Single conductor cable, 105°C conductor temperature, 40°C ambient temperature, and shields grounded at one point.

In Cable Tray: Per NEC Article 392-13, 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 the allowable ampacities stated in Table 310-69 (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.

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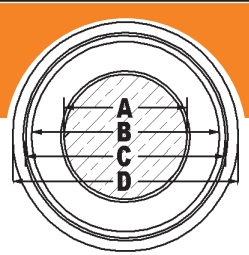

1/C EPR MV-105 Power (Tape Shield)

5kV
100% | 133%

Product Number	Conductor	Insulation Thickness (mils)	Conductor Diameter (in.) (A)	Insulation Diameter (in.) (B)	Insulation Shield Diameter (in.) (C)	Jacket Diameter (in.) (D)	Cable Weight (lbs/kft)	Minimum Bending Radius (in.)	†Ampacity (Amps) ‡105°C In Duct	†Ampacity (Amps) ‡105°C In Air
5kV 100% Aluminum One Conductor										
QJK41CA	4 AWG AL	90	0.215	0.44	0.50	0.63	229	8	93	125
QJM41CA	2 AWG AL	90	0.266	0.49	0.55	0.68	275	9	125	165
QJO41CA	1 AWG AL	90	0.299	0.53	0.58	0.72	304	9	140	195
QJQ41CA	1/0 AWG AL	90	0.336	0.56	0.62	0.75	341	10	160	225
QJR41CA	2/0 AWG AL	90	0.379	0.61	0.66	0.80	385	10	185	260
QJS41CA	3/0 AWG AL	90	0.423	0.65	0.71	0.84	439	11	210	300
QJT41CA	4/0 AWG AL	90	0.479	0.71	0.76	0.93	530	12	245	350
QJU41CA	250 MCM AL	90	0.522	0.76	0.81	0.98	594	12	270	385
QJV41CA	350 MCM AL	90	0.622	0.86	0.91	1.08	732	13	325	480
QJW41CA	500 MCM AL	90	0.742	0.98	1.04	1.20	933	15	400	605
QJX41CA	750 MCM AL	90	0.917	1.16	1.22	1.38	1255	17	505	790
QJY41CA	1000 MCM AL	90	1.071	1.32	1.37	1.53	1572	19	590	950
5kV 133% Aluminum One Conductor										
QKK41CA	4 AWG AL	115	0.215	0.49	0.55	0.68	260	9	93	125
QKM41CA	2 AWG AL	115	0.266	0.54	0.60	0.73	308	9	125	165
QKO41CA	1 AWG AL	115	0.299	0.58	0.63	0.77	338	10	140	195
QKQ41CA	1/0 AWG AL	115	0.336	0.61	0.67	0.80	376	10	160	225
QKR41CA	2/0 AWG AL	115	0.379	0.66	0.71	0.85	422	11	185	260
QKS41CA	3/0 AWG AL	115	0.423	0.70	0.76	0.92	504	12	210	300
QKT41CA	4/0 AWG AL	115	0.479	0.76	0.81	0.98	572	13	245	350
QKU41CA	250 MCM AL	115	0.522	0.81	0.86	1.03	638	13	270	385
QKV41CA	350 MCM AL	115	0.622	0.91	0.96	1.13	780	14	325	480
QKW41CA	500 MCM AL	115	0.742	1.03	1.08	1.25	985	16	400	605
QKX41CA	750 MCM AL	115	0.917	1.21	1.27	1.43	1315	18	505	790
QKY41CA	1000 MCM AL	115	1.071	1.37	1.42	1.58	1638	20	590	950

†Ampacities are based on the following:

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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Three Phase Operation

In Duct (NEC Table 310-78): Three single cables in plastic duct, direct-buried, 105°C conductor temperature, 20°C ambient temperature, earth RHO of 90°C-cm/Watt, 100% load factor, and shields short-circuited.

Isolated in Air (NEC Table 310-70): Single conductor cable, 105°C conductor temperature, 40°C ambient temperature, and shields grounded at one point.

In Cable Tray: Per NEC Article 392-13, 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 the allowable ampacities stated in Table 310-70 (Aluminum), "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.

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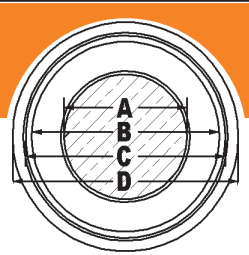

1/C EPR MV-105 Power (Tape Shield)

8kV
100% | 133%

Product Number	Conductor	Insulation Thickness (mils)	Conductor Diameter (in.) (A)	Insulation Diameter (in.) (B)	Insulation Shield Diameter (in.) (C)	Jacket Diameter (in.) (D)	Cable Weight (lbs/kft)	Minimum Bending Radius (in.)	†Ampacity (Amps) ‡105°C In Duct	†Ampacity (Amps) ‡105°C In Air
8kV 100% Copper One Conductor										
QK241CA	4 AWG CU	115	0.215	0.49	0.55	0.68	347	9	120	160
▲ QK441CA	2 AWG CU	115	0.266	0.54	0.60	0.73	447	9	155	215
QK641CA	1 AWG CU	115	0.299	0.58	0.63	0.77	514	10	180	250
▲ QK841CA	1/0 AWG CU	115	0.341	0.62	0.68	0.81	601	10	210	290
▲ QK941CA	2/0 AWG CU	115	0.376	0.65	0.71	0.84	702	11	235	330
QKA41CA	3/0 AWG CU	115	0.423	0.70	0.76	0.92	857	12	270	385
▲ QKB41CA	4/0 AWG CU	115	0.479	0.76	0.81	0.98	1016	12	310	445
▲ QKC41CA	250 MCM CU	115	0.522	0.81	0.86	1.03	1160	13	345	495
▲ QKD41CA	350 MCM CU	115	0.622	0.91	0.96	1.13	1516	14	415	615
▲ QKE41CA	500 MCM CU	115	0.742	1.03	1.08	1.25	2034	15	505	775
▲ QKF41CA	750 MCM CU	115	0.917	1.21	1.27	1.43	2920	18	630	1000
QKG41CA	1000 MCM CU	115	1.071	1.37	1.42	1.58	3742	19	720	1200
8kV 133% Copper One Conductor										
QL641CA	1 AWG CU	140	0.299	0.63	0.68	0.82	549	10	185	250
QL841CA	1/0 AWG CU	140	0.341	0.67	0.73	0.86	638	11	215	290
QL941CA	2/0 AWG CU	140	0.376	0.70	0.76	0.93	767	12	245	335
QLA41CA	3/0 AWG CU	140	0.423	0.75	0.81	0.97	899	12	275	385
QLB41CA	4/0 AWG CU	140	0.479	0.81	0.86	1.03	1060	13	315	445
QLC41CA	250 MCM CU	140	0.522	0.86	0.91	1.08	1206	13	345	495
QLD41CA	350 MCM CU	140	0.622	0.96	1.01	1.18	1566	15	415	610
QLE41CA	500 MCM CU	140	0.742	1.08	1.13	1.30	2089	16	500	765
QLF41CA	750 MCM CU	140	0.917	1.26	1.32	1.48	2983	18	610	990
QLG41CA	1000 MCM CU	140	1.071	1.42	1.44	1.33	3810	20	690	1185

†Ampacities are based on the following:

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PRODUCT NOTES:

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Three Phase Operation

In Duct (NEC Table 310-77): Three single cables in plastic duct, direct-buried, 105°C conductor temperature, 20°C ambient temperature, earth RHO of 90°C-cm/Watt, 100% load factor, and shields short-circuited.

Isolated in Air (NEC Table 310-69): Single conductor cable, 105°C conductor temperature, 40°C ambient temperature, and shields grounded at one point.

In Cable Tray: Per NEC Article 392-13, 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 the allowable ampacities stated in Table 310-69 (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.

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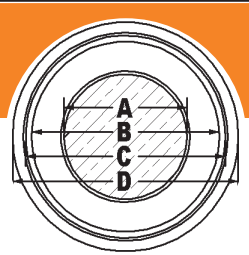

1/C EPR MV-105 Power (Tape Shield)

8kV
100% | 133%

Product Number	Conductor	Insulation Thickness (mils)	Conductor Diameter (in.) (A)	Insulation Diameter (in.) (B)	Insulation Shield Diameter (in.) (C)	Jacket Diameter (in.) (D)	Cable Weight (lbs/kft)	Minimum Bending Radius (in.)	†Ampacity (Amps) ‡105°C In Duct	†Ampacity (Amps) ‡105°C In Air
8kV 100% Aluminum One Conductor										
QKK41CA	4 AWG AL	115	0.215	0.49	0.55	0.68	260	9	93	125
QKM41CA	2 AWG AL	115	0.266	0.54	0.60	0.73	308	9	125	165
QKO41CA	1 AWG AL	115	0.299	0.58	0.63	0.77	338	10	140	195
QKQ41CA	1/0 AWG AL	115	0.336	0.61	0.67	0.80	376	10	160	225
QKR41CA	2/0 AWG AL	115	0.379	0.66	0.71	0.85	422	11	185	260
QKS41CA	3/0 AWG AL	115	0.423	0.70	0.76	0.92	504	12	210	300
QKT41CA	4/0 AWG AL	115	0.479	0.76	0.81	0.98	572	13	245	350
QKU41CA	250 MCM AL	115	0.522	0.81	0.86	1.03	638	13	270	385
QKV41CA	350 MCM AL	115	0.622	0.91	0.96	1.13	780	14	325	480
QKW41CA	500 MCM AL	115	0.742	1.03	1.08	1.25	985	16	400	605
QKX41CA	750 MCM AL	115	0.917	1.21	1.27	1.43	1315	18	505	790
QKY41CA	1000 MCM AL	115	1.071	1.37	1.42	1.58	1638	20	590	950
8kV 133% Aluminum One Conductor										
QLO41CA	1 AWG AL	140	0.299	0.63	0.68	0.82	374	10	145	195
QLQ41CA	1/0 AWG AL	140	0.336	0.66	0.72	0.85	414	11	165	225
QLR41CA	2/0 AWG AL	140	0.379	0.71	0.76	0.93	487	12	190	260
QLS41CA	3/0 AWG AL	140	0.423	0.75	0.81	0.97	546	12	215	300
QLT41CA	4/0 AWG AL	140	0.479	0.81	0.86	1.03	617	13	245	350
QLU41CA	250 MCM AL	140	0.522	0.86	0.91	1.08	684	13	270	385
QLV41CA	350 MCM AL	140	0.622	0.96	1.01	1.18	830	15	330	480
QLW41CA	500 MCM AL	140	0.742	1.08	1.13	1.30	1040	16	400	600
QLX41CA	750 MCM AL	140	0.917	1.26	1.32	1.48	1377	18	490	780
QLY41CA	1000 MCM AL	140	1.071	1.42	1.47	1.63	1706	20	565	940

†Ampacities are based on the following:

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PRODUCT NOTES:

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Three Phase Operation

In Duct (NEC Table 310-78): Three single cables in plastic duct, direct-buried, 105°C conductor temperature, 20°C ambient temperature, earth RHO of 90°C-cm/Watt, 100% load factor, and shields short-circuited.

Isolated in Air (NEC Table 310-70): Single conductor cable, 105°C conductor temperature, 40°C ambient temperature, and shields grounded at one point.

In Cable Tray: Per NEC Article 392-13, 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 the allowable ampacities stated in Table 310-70 (Aluminum), "Isolated in Air" values noted above.

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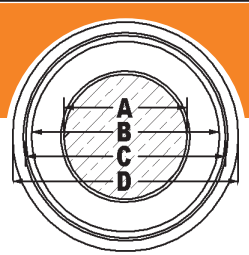

1/C EPR MV-105 Power (Tape Shield)

15kV
100% | 133%

Product Number	Conductor	Insulation Thickness (mils)	Conductor Diameter (in.) (A)	Insulation Diameter (in.) (B)	Insulation Shield Diameter (in.) (C)	Jacket Diameter (in.) (D)	Cable Weight (lbs/kft)	Minimum Bending Radius (in.)	†Ampacity (Amps) ‡105°C In Duct	†Ampacity (Amps) ‡105°C In Air
15kV 100% Copper One Conductor										
QM441CA	2 AWG CU	175	0.266	0.65	0.71	0.84	525	11	165	215
QM641CA	1 AWG CU	175	0.299	0.69	0.74	0.91	621	11	185	250
QM841CA	1/0 AWG CU	175	0.341	0.73	0.79	0.95	713	12	215	290
QM941CA	2/0 AWG CU	175	0.376	0.76	0.82	0.98	818	12	245	335
QMA41CA	3/0 AWG CU	175	0.423	0.81	0.87	1.03	952	13	275	385
QMB41CA	4/0 AWG CU	175	0.479	0.87	0.92	1.09	1115	14	315	445
QMC41CA	250 MCM CU	175	0.522	0.92	0.97	1.14	1264	14	345	495
QMD41CA	350 MCM CU	175	0.622	1.02	1.07	1.24	1629	15	415	610
QME41CA	500 MCM CU	175	0.742	1.14	1.19	1.36	2157	17	500	765
QMF41CA	750 MCM CU	175	0.917	1.32	1.38	1.54	3060	19	610	990
QMG41CA	1000 MCM CU	175	1.071	1.48	1.53	1.69	3894	21	690	1185
15kV 133% Copper One Conductor										
▲ QN441CA	2 AWG CU	220	0.266	0.74	0.80	0.96	624	12	165	215
QN641CA	1 AWG CU	220	0.299	0.78	0.83	1.00	696	12	185	250
▲ QN841CA	1/0 AWG CU	220	0.341	0.82	0.88	1.04	792	13	215	290
▲ QN941CA	2/0 AWG CU	220	0.376	0.85	0.91	1.07	899	13	245	335
QNA41CA	3/0 AWG CU	220	0.423	0.90	0.96	1.12	1036	14	275	385
▲ QNB41CA	4/0 AWG CU	220	0.479	0.96	1.01	1.18	1204	15	315	445
▲ QNC41CA	250 MCM CU	220	0.522	1.01	1.06	1.23	1356	15	345	495
▲ QND41CA	350 MCM CU	220	0.622	1.11	1.16	1.33	1728	16	415	610
▲ QNE41CA	500 MCM CU	220	0.742	1.23	1.28	1.45	2265	18	500	765
▲ QNF41CA	750 MCM CU	220	0.917	1.41	1.47	1.63	3180	20	610	990
▲ QNG41CA	1000 MCM CU	220	1.071	1.57	1.62	1.84	4131	23	690	1185

†Ampacities are based on the following:

Information Subject to Change without Notice.

PRODUCT NOTES:

▲ Items are Prysmian authorized stock.

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

Three Phase Operation

In Duct (NEC Table 310-77): Three single cables in plastic duct, direct-buried, 105°C conductor temperature, 20°C ambient temperature, earth RHO of 90°C-cm/Watt, 100% load factor, and shields short-circuited.

Isolated in Air (NEC Table 310-69): Single conductor cable, 105°C conductor temperature, 40°C ambient temperature, and shields grounded at one point.

In Cable Tray: Per NEC Article 392-13, 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 the allowable ampacities stated in Table 310-69 (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.

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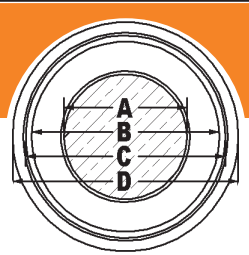

1/C EPR MV-105 Power (Tape Shield)

15kV
100% | 133%

Product Number	Conductor	Insulation Thickness (mils)	Conductor Diameter (in.) (A)	Insulation Diameter (in.) (B)	Insulation Shield Diameter (in.) (C)	Jacket Diameter (in.) (D)	Cable Weight (lbs/kft)	Minimum Bending Radius (in.)	†Ampacity (Amps) ‡105°C In Duct	†Ampacity (Amps) ‡105°C In Air
15kV 100% Aluminum One Conductor										
QMM41CA	2 AWG AL	175	0.266	0.65	0.71	0.84	386	11	130	170
QMO41CA	1 AWG AL	175	0.299	0.69	0.74	0.91	445	12	145	195
QMQ41CA	1/0 AWG AL	175	0.336	0.72	0.78	0.94	487	12	165	225
QMR41CA	2/0 AWG AL	175	0.379	0.77	0.82	0.99	538	12	190	260
QMS41CA	3/0 AWG AL	175	0.423	0.81	0.87	1.03	598	13	215	300
QMT41CA	4/0 AWG AL	175	0.479	0.87	0.92	1.09	672	14	245	350
QMU41CA	250 MCM AL	175	0.522	0.92	0.97	1.14	742	14	270	385
QMV41CA	350 MCM AL	175	0.622	1.02	1.07	1.24	893	15	330	480
QMW41CA	500 MCM AL	175	0.742	1.14	1.19	1.36	1108	17	400	600
QMX41CA	750 MCM AL	175	0.917	1.32	1.38	1.54	1454	19	490	780
QMY41CA	1000 MCM AL	175	1.071	1.48	1.53	1.69	1790	21	565	940
15kV 133% Aluminum One Conductor										
QNM41CA	2 AWG AL	220	0.266	0.74	0.80	0.96	484	12	130	170
QNO41CA	1 AWG AL	220	0.299	0.78	0.83	1.00	521	12	145	195
QNQ41CA	1/0 AWG AL	220	0.336	0.81	0.87	1.03	566	13	165	225
QNR41CA	2/0 AWG AL	220	0.379	0.86	0.91	1.08	620	13	190	260
QNS41CA	3/0 AWG AL	220	0.423	0.90	0.96	1.12	683	14	215	300
QNT41CA	4/0 AWG AL	220	0.479	0.96	1.01	1.18	761	15	245	350
QNU41CA	250 MCM AL	220	0.522	1.01	1.06	1.23	834	15	270	385
QNV41CA	350 MCM AL	220	0.622	1.11	1.16	1.33	992	16	330	480
QNW41CA	500 MCM AL	220	0.742	1.23	1.28	1.45	1216	18	400	600
QNX41CA	750 MCM AL	220	0.917	1.41	1.47	1.63	1574	20	490	780
QNY41CA	1000 MCM AL	220	1.071	1.57	1.62	1.84	2028	23	565	940

†Ampacities are based on the following:

Information Subject to Change without Notice.

PRODUCT NOTES:

▲ Items are Prysmian authorized stock.

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

Three Phase Operation

In Duct (NEC Table 310-78): Three single cables in plastic duct, direct-buried, 105°C conductor temperature, 20°C ambient temperature, earth RHO of 90°C-cm/Watt, 100% load factor, and shields short-circuited.

Isolated in Air (NEC Table 310-70): Single conductor cable, 105°C conductor temperature, 40°C ambient temperature, and shields grounded at one point.

In Cable Tray: Per NEC Article 392-13, 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 the allowable ampacities stated in Table 310-70 (Aluminum), "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.

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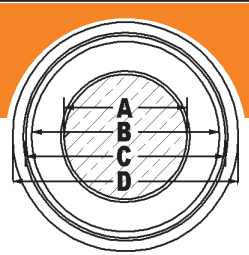

1/C EPR MV-105 Power (Tape Shield)

25kV
100% | 133%

Product Number	Conductor	Insulation Thickness (mils)	Conductor Diameter (in.) (A)	Insulation Diameter (in.) (B)	Insulation Shield Diameter (in.) (C)	Jacket Diameter (in.) (D)	Cable Weight (lbs/kft)	Minimum Bending Radius (in.)	†Ampacity (Amps) ‡105°C In Duct	†Ampacity (Amps) ‡105°C In Air
25kV 100% Copper One Conductor										
QO641CA	1 AWG CU	260	0.299	0.85	0.90	1.07	760	13	185	250
QO841CA	1/0 AWG CU	260	0.341	0.89	0.95	1.11	857	14	215	290
QO941CA	2/0 AWG CU	260	0.376	0.92	0.98	1.14	967	14	245	330
QOA41CA	3/0 AWG CU	260	0.423	0.97	1.03	1.19	1106	15	275	380
QOB41CA	4/0 AWG CU	260	0.479	1.03	1.08	1.25	1277	15	315	445
QOC41CA	250 MCM CU	260	0.522	1.08	1.13	1.30	1432	16	345	490
QOD41CA	350 MCM CU	260	0.622	1.18	1.23	1.40	1809	17	415	605
QOE41CA	500 MCM CU	260	0.742	1.30	1.35	1.52	2353	19	500	755
QOF41CA	750 MCM CU	260	0.917	1.48	1.54	1.76	3379	22	610	970
QOG41CA	1000 MCM CU	260	1.071	1.64	1.69	1.91	4242	23	690	1160
25kV 133% Copper One Conductor										
QP641CA	1 AWG CU	320	0.299	0.98	1.04	1.20	894	15	245	330
QP841CA	1/0 AWG CU	320	0.341	1.03	1.08	1.24	994	15	215	290
QP941CA	2/0 AWG CU	320	0.376	1.06	1.12	1.28	1109	16	245	330
QPA41CA	3/0 AWG CU	320	0.423	1.11	1.16	1.33	1254	16	275	380
QPB41CA	4/0 AWG CU	320	0.479	1.16	1.22	1.38	1430	17	315	445
QPC41CA	250 MCM CU	320	0.522	1.21	1.27	1.43	1591	18	345	490
QPD41CA	350 MCM CU	320	0.622	1.31	1.37	1.53	1979	19	415	605
QPE41CA	500 MCM CU	320	0.742	1.43	1.49	1.65	2535	20	500	755
QPF41CA	750 MCM CU	320	0.917	1.62	1.67	1.90	3588	23	610	970
QPG41CA	1000 MCM CU	320	1.071	1.77	1.83	2.05	4468	25	690	1160

†Ampacities are based on the following:

Information Subject to Change without Notice.

PRODUCT NOTES:

▲ Items are Prysmian authorized stock.

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

Three Phase Operation

In Duct (NEC Table 310-77): Three single cables in plastic duct, direct-buried, 105°C conductor temperature, 20°C ambient temperature, earth RHO of 90°C-cm/Watt, 100% load factor, and shields short-circuited.

Isolated in Air (NEC Table 310-69): Single conductor cable, 105°C conductor temperature, 40°C ambient temperature, and shields grounded at one point.

In Cable Tray: Per NEC Article 392-13, 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 the allowable ampacities stated in Table 310-69 (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.

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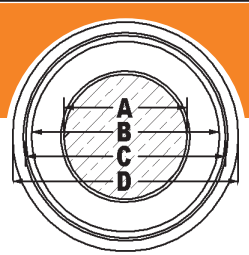

1/C EPR MV-105 Power (Tape Shield)

25kV
100% | 133%

Product Number	Conductor		Insulation Thickness (mils) (A)	Conductor Diameter (in.) (B)	Insulation Diameter (in.) (C)	Insulation Shield Diameter (in.) (D)	Jacket Diameter (in.)	Cable Weight (lbs/kft)	Minimum Bending Radius (in.)	†Ampacity (Amps) ‡105°C In Duct	†Ampacity (Amps) ‡105°C In Air
25kV 100% Aluminum One Conductor											
QOO41CA	1 AWG AL	260	0.299	0.84	0.90	1.07	584	13		145	195
QOQ41CA	1/0 AWG AL	260	0.336	0.88	0.94	1.10	632	14		165	225
QOR41CA	2/0 AWG AL	260	0.379	0.93	0.98	1.15	687	14		190	260
QOS41CA	3/0 AWG AL	260	0.423	0.97	1.03	1.19	754	15		215	300
QOT41CA	4/0 AWG AL	260	0.479	1.03	1.08	1.25	834	15		245	345
QOU41CA	250 MCM AL	260	0.522	1.08	1.13	1.30	910	16		270	380
QOV41CA	350 MCM AL	260	0.622	1.18	1.23	1.40	1074	17		330	475
QOW41CA	500 MCM AL	260	0.742	1.30	1.35	1.52	1304	19		400	590
QOX41CA	750 MCM AL	260	0.917	1.48	1.54	1.76	1773	23		490	765
QOY41CA	1000 MCM AL	260	1.071	1.64	1.69	1.91	2138	24		565	920
25kV 133% Aluminum One Conductor											
QPO41CA	1 AWG AL	320	0.299	0.98	1.04	1.20	719	15		165	225
QPQ41CA	1/0 AWG AL	320	0.336	1.20	1.08	1.24	770	15		165	225
QPR41CA	2/0 AWG AL	320	0.379	1.06	1.12	1.28	830	16		190	260
QPS41CA	3/0 AWG AL	320	0.423	1.11	1.16	1.33	901	16		215	300
QPT41CA	4/0 AWG AL	320	0.479	1.16	1.22	1.38	987	17		245	345
QPU41CA	250 MCM AL	320	0.522	1.21	1.27	1.43	1069	18		270	380
QPV41CA	350 MCM AL	320	0.622	1.31	1.37	1.53	1243	19		330	475
QPW41CA	500 MCM AL	320	0.742	1.43	1.49	1.65	1486	20		400	590
QPX41CA	750 MCM AL	320	0.917	1.62	1.67	1.90	1983	23		490	765
QPY41CA	1000 MCM AL	320	1.071	1.77	1.83	2.05	2364	25		565	920

†Ampacities are based on the following:

Three Phase Operation

In Duct (NEC Table 310-78): Three single cables in plastic duct, direct-buried, 105°C conductor temperature, 20°C ambient temperature, earth RHO of 90°C-cm/Watt, 100% load factor, and shields short-circuited.

Isolated in Air (NEC Table 310-70): Single conductor cable, 105°C conductor temperature, 40°C ambient temperature, and shields grounded at one point.

In Cable Tray: Per NEC Article 392-13, 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 the allowable ampacities stated in Table 310-70 (Aluminum), "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.

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PRODUCT NOTES:

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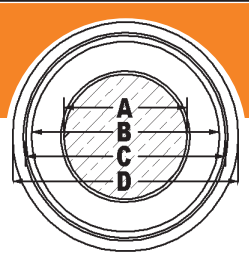

1/C EPR MV-105 Power (Tape Shield)

35kV
100% | 133%

Product Number	Conductor	Insulation Thickness (mils)	Conductor Diameter (in.) (A)	Insulation Diameter (in.) (B)	Insulation Shield Diameter (in.) (C)	Jacket Diameter (in.) (D)	Cable Weight (lbs/kft)	Minimum Bending Radius (in.)	†Ampacity (Amps) ‡105°C In Duct	†Ampacity (Amps) ‡105°C In Air
35kV 100% Copper One Conductor										
▲ QQ841CA	1/0 AWG CU	345	0.341	1.08	1.13	1.29	1051	16	215	290
QQ941CA	2/0 AWG CU	345	0.376	1.11	1.17	1.33	1165	16	245	330
QQA41CA	3/0 AWG CU	345	0.423	1.16	1.21	1.38	1312	17	275	380
▲ QQB41CA	4/0 AWG CU	345	0.479	1.21	1.27	1.43	1490	18	315	445
QQC41CA	250 MCM CU	345	0.522	1.26	1.32	1.48	1653	18	345	490
▲ QQD41CA	350 MCM CU	345	0.622	1.36	1.42	1.58	2045	19	415	605
▲ QQE41CA	500 MCM CU	345	0.742	1.48	1.54	1.70	2606	21	500	755
QQF41CA	750 MCM CU	345	0.917	1.67	1.72	1.95	3670	24	610	970
QQG41CA	1000 MCM CU	345	1.071	1.82	1.88	2.10	4555	26	690	1160
35kV 133% Copper One Conductor										
QR841CA	1/0 AWG CU	420	0.341	1.22	1.27	1.43	1214	18	215	290
QR941CA	2/0 AWG CU	420	0.376	1.25	1.31	1.47	1484	19	245	330
QRA41CA	3/0 AWG CU	420	0.423	1.30	1.35	1.52	1484	19	275	380
QRB41CA	4/0 AWG CU	420	0.479	1.35	1.41	1.57	1669	19	315	445
QRC41CA	250 MCM CU	420	0.522	1.40	1.46	1.62	1837	20	345	490
QRD41CA	350 MCM CU	420	0.622	1.50	1.56	1.78	2342	22	415	605
QRE41CA	500 MCM CU	420	0.742	1.62	1.68	1.90	2924	23	500	755
QRF41CA	750 MCM CU	420	0.917	1.81	1.86	2.09	3906	26	610	970
QRG41CA	1000 MCM CU	420	1.071	1.96	2.02	2.24	4808	27	690	1160

†Ampacities are based on the following:

Information Subject to Change without Notice.

PRODUCT NOTES:

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Three Phase Operation

In Duct (NEC Table 310-77): Three single cables in plastic duct, direct-buried, 105°C conductor temperature, 20°C ambient temperature, earth RHO of 90°C-cm/Watt, 100% load factor, and shields short-circuited.

Isolated in Air (NEC Table 310-69): Single conductor cable, 105°C conductor temperature, 40°C ambient temperature, and shields grounded at one point.

In Cable Tray: Per NEC Article 392-13, 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 the allowable ampacities stated in Table 310-69 (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.

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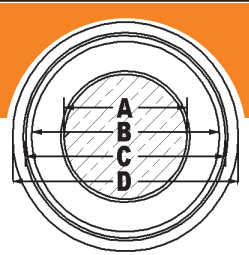

1/C EPR MV-105 Power (Tape Shield)

35kV
100% | 133%

Product Number	Conductor	Insulation Thickness (mils)	Conductor Diameter (in.) (A)	Insulation Diameter (in.) (B)	Insulation Shield Diameter (in.) (C)	Jacket Diameter (in.) (D)	Cable Weight (lbs/kft)	Minimum Bending Radius (in.)	†Ampacity (Amps) ‡105°C In Duct	†Ampacity (Amps) ‡105°C In Air
35kV 100% Aluminum One Conductor										
QQQ41CA	1/0 AWG AL	345	0.336	1.07	1.13	1.29	825	16	165	225
QQR41CA	2/0 AWG AL	345	0.379	1.11	1.17	1.33	886	16	190	260
QQS41CA	3/0 AWG AL	345	0.423	1.16	1.21	1.38	959	17	215	300
QQT41CA	4/0 AWG AL	345	0.479	1.21	1.27	1.43	1047	18	245	345
QQU41CA	250 MCM AL	345	0.522	1.26	1.32	1.48	1131	18	270	380
QQV41CA	350 MCM AL	345	0.622	1.36	1.42	1.58	1309	19	330	475
QQW41CA	500 MCM AL	345	0.742	1.48	1.54	1.70	1557	21	400	590
QQX41CA	750 MCM AL	345	0.917	1.68	1.77	2.01	2159	25	490	765
QQY41CA	1000 MCM AL	345	1.071	1.82	1.88	2.10	2450	26	565	920
35kV 133% Aluminum One Conductor										
QRQ41CA	1/0 AWG AL	420	0.336	1.21	1.27	1.43	987	18	165	225
QRR41CA	2/0 AWG AL	420	0.379	1.25	1.31	1.47	1054	18	190	260
QRS41CA	3/0 AWG AL	420	0.423	1.30	1.35	1.52	1131	19	215	300
QRT41CA	4/0 AWG AL	420	0.479	1.35	1.41	1.57	1226	19	245	345
QRU41CA	250 MCM AL	420	0.522	1.40	1.46	1.62	1315	20	270	380
QRV41CA	350 MCM AL	420	0.622	1.50	1.56	1.78	1606	22	330	475
QRW41CA	500 MCM AL	420	0.742	1.62	1.68	1.90	1875	23	400	590
QRX41CA	750 MCM AL	420	0.917	1.81	1.86	2.09	2300	26	490	765
QRY41CA	1000 MCM AL	420	1.071	1.96	2.02	2.24	2704	27	565	920

†Ampacities are based on the following:

Three Phase Operation

In Duct (NEC Table 310-78): Three single cables in plastic duct, direct-buried, 105°C conductor temperature, 20°C ambient temperature, earth RHO of 90°C-cm/Watt, 100% load factor, and shields short-circuited.

Isolated in Air (NEC Table 310-70): Single conductor cable, 105°C conductor temperature, 40°C ambient temperature, and shields grounded at one point.

In Cable Tray: Per NEC Article 392-13, 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 the allowable ampacities stated in Table 310-70 (Aluminum), "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.

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