

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 drain wires, separator tape, 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 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 Compressed 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

- Non-magnetic bare copper drain wire shield evenly spaced comprising of 5000 circular mils minimum per inch of calculated core diameter. This system insures a reliable metallic shield that is easily terminated.

Separator Tape

- Moisture resistant helically applied separator tape insuring easy removal of the jacket.

Jacket

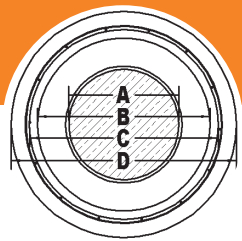
- Black sunlight resistant polyvinyl chloride (PVC) jacket tightly applied over the separator tape.

Options

- Strandseal®
- Compressed or compact 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 |



1/3C EPR MV-105 Power (Wire Shield)

5kV

100% | 133%

Product Number	Conductor	Insulation Thickness (mils)		Conductor Diameter (in.)		Insulation Diameter (in.)		Insulation Shield Diameter (in.)		Jacket Diameter (in.)		Cable Weight (lbs/ft)	Minimum Bending Radius (in.)		† Ampacity (Amps)
		(A)	(B)	(C)	(D)					‡105°C In Duct	‡105°C In Air				
5kV 100% Copper One Conductor															
QJ240CA	4 AWG CU	90	0.215	0.45	0.51	0.68	299	9	120	160					
QJ440CA	2 AWG CU	90	0.266	0.50	0.56	0.73	394	9	155	215					
QJ640CA	1 AWG CU	90	0.299	0.53	0.59	0.77	459	10	180	250					
QJ840CA	1/0 AWG CU	90	0.341	0.57	0.63	0.81	542	10	210	290					
QJ940CA	2/0 AWG CU	90	0.376	0.61	0.67	0.88	673	11	235	330					
QJA40CA	3/0 AWG CU	90	0.423	0.66	0.71	0.93	798	12	270	385					
QJB40CA	4/0 AWG CU	90	0.479	0.71	0.77	0.99	953	12	310	445					
QJC40CA	250 MCM CU	90	0.522	0.76	0.82	1.03	1092	13	345	495					
QJD40CA	350 MCM CU	90	0.622	0.86	0.92	1.13	1440	14	415	615					
QJE40CA	500 MCM CU	90	0.742	0.98	1.05	1.27	1965	16	505	775					
QJF40CA	750 MCM CU	90	0.917	1.16	1.24	1.46	2841	18	630	1000					
QJG40CA	1000 MCM CU	90	1.071	1.32	1.39	1.62	3651	20	720	1200					
5kV 133% Copper One Conductor															
QK240CA	4 AWG CU	115	0.215	0.50	0.56	0.73	327	9	120	160					
QK440CA	2 AWG CU	115	0.266	0.55	0.61	0.78	424	10	155	215					
QK640CA	1 AWG CU	115	0.299	0.58	0.64	0.82	489	10	180	250					
QK840CA	1/0 AWG CU	115	0.341	0.62	0.68	0.90	608	11	210	290					
QK940CA	2/0 AWG CU	115	0.376	0.66	0.72	0.93	708	12	235	330					
QKA40CA	3/0 AWG CU	115	0.423	0.71	0.76	0.99	838	12	270	385					
QKB40CA	4/0 AWG CU	115	0.479	0.76	0.82	1.04	994	13	310	445					
QKC40CA	250 MCM CU	115	0.522	0.81	0.87	1.08	1133	14	345	495					
QKD40CA	350 MCM CU	115	0.622	0.91	0.97	1.18	1485	15	415	615					
QKE40CA	500 MCM CU	115	0.742	1.03	1.10	1.32	2016	16	505	775					
QKF40CA	750 MCM CU	115	0.917	1.21	1.29	1.51	2900	19	630	1000					
QKG40CA	1000 MCM CU	115	1.071	1.37	1.44	1.73	3812	21	720	1200					

†Ampacities are based on the following:

Information Subject to Change without Notice.

PRODUCT NOTES:

Three Phase Operation

▲ Items are Prysmian authorized stock. The above dimensions are approximate and subject to normal manufacturing tolerances.

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 only.

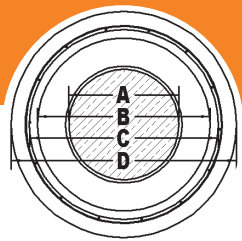
In Cable Tray: Per NEC Article 392-13, for single conductor cables, sizes 1/0 AWG and larger, installed in a single layer in an uncovered cable tray, with a maintained space of not less than one cable diameter between individual conductors, the ampacities shall not exceed the allowable ampacities stated 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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1/2 EPR MV-105 Power (Wire Shield)

5kV

100% | 133%

Product Number	Conductor	Insulation Thickness (mil/s)	Conductor Diameter (in.)		Insulation Diameter (in.)		Jacket Diameter (in.)	Cable Weight (lbs/ft)	Minimum Bending Radius (in.)	† Ampacity (Amps)	
			(A)	(B)	(C)	(D)				‡105°C In Duct	‡105°C In Air
5kV 100% Aluminum One Conductor											
QJK40CA	4 AWG AL	90	0.215	0.45	0.51	0.68	212	9	93	125	
QJM40CA	2 AWG AL	90	0.266	0.50	0.56	0.73	255	9	125	165	
QJO40CA	1 AWG AL	90	0.299	0.53	0.59	0.77	283	10	140	195	
QJQ40CA	1/0 AWG AL	90	0.336	0.57	0.63	0.80	318	10	160	225	
QJR40CA	2/0 AWG AL	90	0.379	0.61	0.67	0.89	393	11	185	260	
QJS40CA	3/0 AWG AL	90	0.423	0.66	0.71	0.93	445	12	210	300	
QJT40CA	4/0 AWG AL	90	0.479	0.71	0.77	0.99	510	12	245	350	
QJU40CA	250 MCM AL	90	0.522	0.76	0.82	1.03	570	13	270	385	
QJV40CA	350 MCM AL	90	0.622	0.86	0.92	1.13	704	14	325	480	
QJW40CA	500 MCM AL	90	0.742	0.98	1.05	1.27	916	16	400	605	
QJX40CA	750 MCM AL	90	0.917	1.16	1.24	1.46	1234	18	505	790	
QJY40CA	1000 MCM AL	90	1.071	1.32	1.39	1.62	1547	20	590	950	
5kV 133% Aluminum One Conductor											
QKK40CA	4 AWG AL	115	0.215	0.50	0.56	0.73	239	9	93	125	
QKM40CA	2 AWG AL	115	0.266	0.55	0.61	0.78	285	10	125	165	
QKO40CA	1 AWG AL	115	0.299	0.58	0.64	0.82	314	10	140	195	
QKQ40CA	1/0 AWG AL	115	0.336	0.62	0.68	0.89	384	11	160	225	
QKR40CA	2/0 AWG AL	115	0.379	0.66	0.72	0.94	428	12	185	260	
QKS40CA	3/0 AWG AL	115	0.423	0.71	0.76	0.99	485	12	210	300	
QKT40CA	4/0 AWG AL	115	0.479	0.76	0.82	1.04	550	13	245	350	
QKU40CA	250 MCM AL	115	0.522	0.81	0.87	1.08	611	14	270	385	
QKV40CA	350 MCM AL	115	0.622	0.91	0.97	1.18	749	15	325	480	
QKW40CA	500 MCM AL	115	0.742	1.03	1.10	1.32	967	16	400	605	
QKX40CA	750 MCM AL	115	0.917	1.21	1.29	1.51	1294	19	505	790	
QKY40CA	1000 MCM AL	115	1.071	1.37	1.44	1.73	1708	21	590	950	

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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 only.

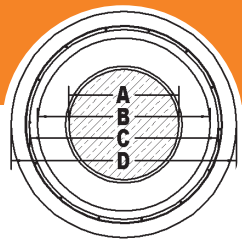
In Cable Tray: Per NEC Article 392-13, for single conductor cables, sizes 1/0 AWG and larger, installed in a single layer in an uncovered cable tray, with a maintained space of not less than one cable diameter between individual conductors, the ampacities shall not exceed the allowable ampacities stated 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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1/3 EPR MV-105 Power (Wire Shield)

8kV

100% | 133%

Product Number	Conductor	Insulation Thickness (mils)		Conductor Diameter (in.)		Insulation Diameter (in.)		Insulation Shield Diameter (in.)		Jacket Diameter (in.)		Cable Weight (lbs/ft)	Minimum Bending Radius (in.)		† Ampacity (Amps)
		(A)	(B)	(C)	(D)					‡105°C In Duct	‡105°C In Air				
8kV 100% Copper One Conductor															
QK240CA	4 AWG CU	115	0.215	0.50	0.56	0.73	327	9	125	165					
QK440CA	2 AWG CU	115	0.266	0.55	0.61	0.78	424	10	165	215					
QK640CA	1 AWG CU	115	0.299	0.58	0.64	0.82	489	10	185	250					
QK840CA	1/0 AWG CU	115	0.341	0.62	0.68	0.90	608	11	215	290					
QK940CA	2/0 AWG CU	115	0.376	0.66	0.72	0.93	708	12	245	335					
QKA40CA	3/0 AWG CU	115	0.423	0.71	0.76	0.99	838	12	275	385					
QKB40CA	4/0 AWG CU	115	0.479	0.76	0.82	1.04	994	13	315	445					
QKC40CA	250 MCM CU	115	0.522	0.81	0.87	1.08	1133	14	345	495					
QKD40CA	350 MCM CU	115	0.622	0.91	0.97	1.18	1485	15	415	610					
QKE40CA	500 MCM CU	115	0.742	1.03	1.10	1.32	2016	16	500	765					
QKF40CA	750 MCM CU	115	0.917	1.21	1.29	1.51	2900	19	610	990					
QKG40CA	1000 MCM CU	115	1.071	1.37	1.44	1.73	3812	21	690	1185					
8kV 133% Copper One Conductor															
QL440CA	2 AWG CU	140	0.266	0.60	0.66	0.83	457	10	165	215					
QL640CA	1 AWG CU	140	0.299	0.63	0.69	0.91	556	11	185	250					
QL840CA	1/0 AWG CU	140	0.341	0.67	0.73	0.96	647	12	215	290					
QL940CA	2/0 AWG CU	140	0.376	0.71	0.77	0.99	748	12	245	335					
QLA40CA	3/0 AWG CU	140	0.423	0.76	0.81	1.03	877	13	275	385					
QLB40CA	4/0 AWG CU	140	0.479	0.81	0.87	1.09	1035	14	315	445					
QLC40CA	250 MCM CU	140	0.522	0.86	0.92	1.13	1178	14	345	495					
QLD40CA	350 MCM CU	140	0.622	0.96	1.02	1.25	1535	15	415	610					
QLE40CA	500 MCM CU	140	0.742	1.08	1.15	1.37	2070	17	500	765					
QLF40CA	750 MCM CU	140	0.917	1.26	1.34	1.56	2960	19	610	990					
QLG40CA	1000 MCM CU	140	1.071	1.42	1.49	1.78	3881	22	690	1185					

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PRODUCT NOTES:

Three Phase Operation

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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 only.

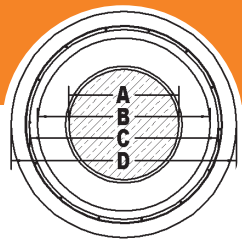
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1/3 EPR MV-105 Power (Wire Shield)

8kV

100% | 133%

Product Number	Conductor	Insulation Thickness (mil/s)		Conductor Diameter (in.)		Insulation Diameter (in.)		Insulation Shield Diameter (in.)		Jacket Diameter (in.)		Cable Weight (lbs/ft)	Minimum Bending Radius (in.)		† Ampacity (Amps)
		(A)	(B)	(C)	(D)					‡105°C In Duct	‡105°C In Air				
8kV 100% Aluminum One Conductor															
QKK4ØCA	4 AWG AL	115	0.215	0.50	0.56	0.73	239	9	98	130					
QKM4ØCA	2 AWG AL	115	0.266	0.55	0.61	0.78	285	10	130	170					
QKO4ØCA	1 AWG AL	115	0.299	0.58	0.64	0.82	314	10	145	195					
QKQ4ØCA	1/0 AWG AL	115	0.336	0.62	0.68	0.89	384	11	165	225					
QKR4ØCA	2/0 AWG AL	115	0.379	0.66	0.72	0.94	428	12	190	260					
QKS4ØCA	3/0 AWG AL	115	0.423	0.71	0.76	0.99	485	12	215	300					
QKT4ØCA	4/0 AWG AL	115	0.479	0.76	0.82	1.04	550	13	245	350					
QKU4ØCA	250 MCM AL	115	0.522	0.81	0.87	1.08	611	14	270	385					
QKV4ØCA	350 MCM AL	115	0.622	0.91	0.97	1.18	749	15	330	480					
QKW4ØCA	500 MCM AL	115	0.742	1.03	1.10	1.32	967	16	400	600					
QKX4ØCA	750 MCM AL	115	0.917	1.21	1.29	1.51	1294	19	490	780					
QKY4ØCA	1000 MCM AL	115	1.071	1.37	1.44	1.73	1708	21	565	940					
8kV 133% Aluminum One Conductor															
QLM4ØCA	2 AWG AL	140	0.266	0.60	0.66	0.83	318	10	130	170					
QLO4ØCA	1 AWG AL	140	0.299	0.63	0.69	0.91	381	11	145	195					
QLQ4ØCA	1/0 AWG AL	140	0.336	0.67	0.73	0.94	419	12	165	225					
QLR4ØCA	2/0 AWG AL	140	0.379	0.71	0.77	0.99	467	12	190	260					
QLS4ØCA	3/0 AWG AL	140	0.423	0.76	0.81	1.03	524	13	215	300					
QLT4ØCA	4/0 AWG AL	140	0.479	0.81	0.87	1.09	592	14	245	350					
QLU4ØCA	250 MCM AL	140	0.522	0.86	0.92	1.13	656	14	270	385					
QLV4ØCA	350 MCM AL	140	0.622	0.96	1.02	1.25	799	15	330	480					
QLW4ØCA	500 MCM AL	140	0.742	1.08	1.15	1.37	1021	17	400	600					
QLX4ØCA	750 MCM AL	140	0.917	1.26	1.34	1.56	1354	19	490	780					
QLY4ØCA	1000 MCM AL	140	1.071	1.42	1.49	1.78	1777	22	565	940					

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Three Phase Operation

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

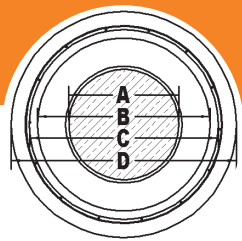
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1/2 EPR MV-105 Power (Wire Shield)

15kV

100% | 133%

Product Number	Conductor	Insulation Thickness (mils)		Conductor Diameter (in.)		Insulation Diameter (in.)		Insulation Shield Diameter (in.)		Jacket Diameter (in.)		Cable Weight (lbs/ft)	Minimum Bending Radius (in.)		† Ampacity (Amps)
		(A)	(B)	(C)	(D)					‡105°C In Duct	‡105°C In Air				
15kV 100% Copper One Conductor															
QM440CA	2 AWG CU	175	0.266	0.67	0.73	0.94	538	12	165	215					
QM640CA	1 AWG CU	175	0.299	0.70	0.76	0.99	610	12	185	250					
QM840CA	1/0 AWG CU	175	0.341	0.74	0.80	1.02	699	13	215	290					
QM940CA	2/0 AWG CU	175	0.376	0.78	0.84	1.05	803	13	245	335					
QMA40CA	3/0 AWG CU	175	0.423	0.83	0.88	1.10	935	14	275	385					
QMB40CA	4/0 AWG CU	175	0.479	0.88	0.94	1.16	1098	14	315	445					
QMC40CA	250 MCM CU	175	0.522	0.93	0.99	1.22	1245	15	345	495					
QMD40CA	350 MCM CU	175	0.622	1.03	1.10	1.32	1621	16	415	610					
QME40CA	500 MCM CU	175	0.742	1.15	1.22	1.46	2151	18	500	765					
QMF40CA	750 MCM CU	175	0.917	1.33	1.41	1.63	3047	20	610	990					
QMG40CA	1000 MCM CU	175	1.071	1.49	1.58	1.88	4008	23	690	1185					
15kV 133% Copper One Conductor															
QN440CA	2 AWG CU	220	0.266	0.76	0.82	1.03	610	13	165	215					
QN640CA	1 AWG CU	220	0.299	0.79	0.85	1.07	682	13	185	250					
QN840CA	1/0 AWG CU	220	0.341	0.83	0.89	1.12	777	14	215	290					
QN940CA	2/0 AWG CU	220	0.376	0.87	0.93	1.14	882	14	245	335					
QNA40CA	3/0 AWG CU	220	0.423	0.92	0.97	1.20	1019	15	275	385					
QNB40CA	4/0 AWG CU	220	0.479	0.97	1.03	1.25	1183	15	315	445					
QNC40CA	250 MCM CU	220	0.522	1.02	1.09	1.31	1349	16	345	495					
QND40CA	350 MCM CU	220	0.622	1.12	1.19	1.41	1718	17	415	610					
QNE40CA	500 MCM CU	220	0.742	1.24	1.31	1.54	2256	19	500	765					
QNF40CA	750 MCM CU	220	0.917	1.42	1.50	1.78	3265	22	610	990					
QNG40CA	1000 MCM CU	220	1.071	1.58	1.67	1.95	4142	24	690	1185					

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Three Phase Operation

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

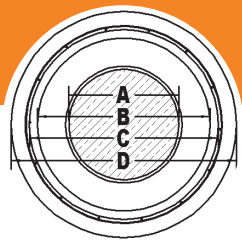
In Cable Tray: Per NEC Article 392-13, for single conductor cables, sizes 1/0 AWG and larger, installed in a single layer in an uncovered cable tray, with a maintained space of not less than one cable diameter between individual conductors, the ampacities shall not exceed the allowable ampacities stated 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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1/2 EPR MV-105 Power (Wire Shield)

15kV

100% | 133%

Product Number	Conductor	Insulation Thickness (mils)	Conductor Diameter (in.)		Insulation Diameter (in.)		Jacket Diameter (in.)	Cable Weight (lbs/ft)	Minimum Bending Radius (in.)	† Ampacity (Amps)	
			(A)	(B)	(C)	(D)				‡105°C In Duct	‡105°C In Air
15kV 100% Aluminum One Conductor											
QMM4ØCA	2 AWG AL	175	0.266	0.67	0.73	0.94	399	12	130	170	
QMO4ØCA	1 AWG AL	175	0.299	0.70	0.76	0.99	434	12	145	195	
QM4ØCA	1/0 AWG AL	175	0.336	0.74	0.80	1.01	474	13	165	225	
QMR4ØCA	2/0 AWG AL	175	0.379	0.78	0.84	1.06	524	13	190	260	
QMS4ØCA	3/0 AWG AL	175	0.423	0.83	0.88	1.10	582	14	215	300	
QMT4ØCA	4/0 AWG AL	175	0.479	0.88	0.94	1.16	654	14	245	350	
QMU4ØCA	250 MCM AL	175	0.522	0.93	0.99	1.22	722	15	270	385	
QMV4ØCA	350 MCM AL	175	0.622	1.03	1.10	1.32	885	16	330	480	
QMW4ØCA	500 MCM AL	175	0.742	1.15	1.22	1.46	1102	18	400	600	
QMX4ØCA	750 MCM AL	175	0.917	1.33	1.41	1.63	1441	20	490	780	
QMY4ØCA	1000 MCM AL	175	1.071	1.49	1.58	1.88	1904	23	565	940	
15kV 133% Aluminum One Conductor											
QNM4ØCA	2 AWG AL	220	0.266	0.76	0.82	1.03	471	13	130	170	
QNO4ØCA	1 AWG AL	220	0.299	0.79	0.85	1.07	506	13	145	195	
QNO4ØCA	1/0 AWG AL	220	0.336	0.83	0.89	1.10	550	14	165	225	
QNR4ØCA	2/0 AWG AL	220	0.379	0.87	0.93	1.15	602	14	190	260	
QNS4ØCA	3/0 AWG AL	220	0.423	0.92	0.97	1.20	667	15	215	300	
QNT4ØCA	4/0 AWG AL	220	0.479	0.97	1.03	1.25	740	15	245	350	
QNU4ØCA	250 MCM AL	220	0.522	1.02	1.09	1.31	827	16	270	385	
QNV4ØCA	350 MCM AL	220	0.622	1.12	1.19	1.41	982	17	330	480	
QNW4ØCA	500 MCM AL	220	0.742	1.24	1.31	1.54	1207	19	400	600	
QNX4ØCA	750 MCM AL	220	0.917	1.42	1.50	1.78	1659	22	490	780	
QNY4ØCA	1000 MCM AL	220	1.071	1.58	1.67	1.95	2038	24	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 only.

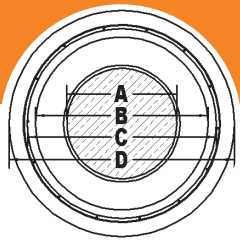
In Cable Tray: Per NEC Article 392-13, for single conductor cables, sizes 1/0 AWG and larger, installed in a single layer in an uncovered cable tray, with a maintained space of not less than one cable diameter between individual conductors, the ampacities shall not exceed the allowable ampacities stated in Table 310-70 (Aluminum), "Isolated in Air" values noted above.

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1/3C EPR MV-105 Power (Wire Shield)

25kV

100% | 133%

Product Number	Conductor	Insulation Thickness (mils)		Conductor Diameter (in.)		Insulation Diameter (in.)		Insulation Shield Diameter (in.)		Jacket Diameter (in.)		Cable Weight (lbs/ft)	Minimum Bending Radius (in.)		‡ Ampacity (Amps)
		(A)	(B)	(C)	(D)					‡105°C In Duct	‡105°C In Air				
25kV 100% Copper One Conductor															
QO640CA	1 AWG CU	260	0.299	0.87	0.93	1.15	752	14	185	250					
QO840CA	1/0 AWG CU	260	0.341	0.91	0.97	1.20	851	15	215	290					
QO940CA	2/0 AWG CU	260	0.376	0.95	1.01	1.23	958	15	245	330					
QOA40CA	3/0 AWG CU	260	0.423	1.00	1.07	1.29	1112	16	275	380					
QOB40CA	4/0 AWG CU	260	0.479	1.05	1.13	1.34	1282	17	315	445					
QOC40CA	250 MCM CU	260	0.522	1.10	1.17	1.39	1435	17	345	490					
QOD40CA	350 MCM CU	260	0.622	1.20	1.27	1.50	1812	19	415	605					
QOE40CA	500 MCM CU	260	0.742	1.32	1.39	1.62	2354	20	500	755					
QOF40CA	750 MCM CU	260	0.917	1.50	1.59	1.89	3408	23	610	970					
QOG40CA	1000 MCM CU	260	1.071	1.66	1.75	2.03	4267	25	690	1160					
25kV 133% Copper One Conductor															
QQ840CA	1/0 AWG CU	345	0.341	1.09	1.16	1.38	1042	17	215	290					
QQ940CA	2/0 AWG CU	345	0.376	1.12	1.20	1.41	1155	17	245	330					
QQA40CA	3/0 AWG CU	345	0.423	1.17	1.24	1.47	1303	18	275	380					
QQB40CA	4/0 AWG CU	345	0.479	1.23	1.30	1.53	1482	19	315	445					
QQC40CA	250 MCM CU	345	0.522	1.27	1.35	1.58	1640	19	345	490					
QQD40CA	350 MCM CU	345	0.622	1.37	1.45	1.74	2126	21	415	605					
QQE40CA	500 MCM CU	345	0.742	1.49	1.58	1.88	2718	23	500	755					
QQF40CA	750 MCM CU	345	0.917	1.68	1.77	2.05	3675	25	610	970					
QQG40CA	1000 MCM CU	345	1.071	1.83	1.92	2.22	4563	27	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 only.

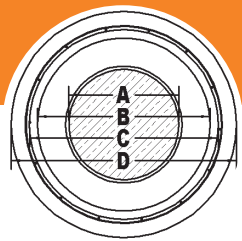
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1/3C EPR MV-105 Power (Wire Shield)

25kV

100% | 133%

Product Number	Conductor	Insulation Thickness (mil/s)	Conductor Diameter (in.)		Insulation Diameter (in.)		Jacket Diameter (in.)	Cable Weight (lbs/ft)	Minimum Bending Radius (in.)	† Ampacity (Amps)	
			(A)	(B)	(C)	(D)				‡105°C In Duct	‡105°C In Air
25kV 100% Aluminum One Conductor											
QOQ4ØCA	1 AWG AL	260	0.299	0.87	0.93	1.15	576	14	145	195	
QOQ4ØCA	1/0 AWG AL	260	0.336	0.91	0.97	1.18	622	15	165	225	
QOR4ØCA	2/0 AWG AL	260	0.379	0.95	1.01	1.24	679	15	190	260	
QOS4ØCA	3/0 AWG AL	260	0.423	1.00	1.07	1.29	760	16	215	300	
QOT4ØCA	4/0 AWG AL	260	0.479	1.05	1.13	1.34	838	17	245	345	
QOU4ØCA	250 MCM AL	260	0.522	1.10	1.17	1.39	912	17	270	380	
QOV4ØCA	350 MCM AL	260	0.622	1.20	1.27	1.50	1076	19	330	475	
QOW4ØCA	500 MCM AL	260	0.742	1.32	1.39	1.62	1305	20	400	590	
QOX4ØCA	750 MCM AL	260	0.917	1.50	1.59	1.89	1802	23	490	765	
QOY4ØCA	1000 MCM AL	260	1.071	1.66	1.75	2.03	2163	25	565	920	
25kV 133% Aluminum One Conductor											
QQQ4ØCA	1/0 AWG AL	345	0.336	1.08	1.16	1.37	816	17	165	225	
QQR4ØCA	2/0 AWG AL	345	0.379	1.13	1.20	1.42	877	17	190	260	
QQS4ØCA	3/0 AWG AL	345	0.423	1.17	1.24	1.47	950	18	215	300	
QQT4ØCA	4/0 AWG AL	345	0.479	1.23	1.30	1.53	1039	19	245	345	
QQU4ØCA	250 MCM AL	345	0.522	1.27	1.35	1.58	1118	19	270	380	
QQV4ØCA	350 MCM AL	345	0.622	1.37	1.45	1.74	1390	21	330	475	
QQW4ØCA	500 MCM AL	345	0.742	1.49	1.58	1.88	1669	23	400	590	
QQX4ØCA	750 MCM AL	345	0.917	1.68	1.77	2.05	2069	25	490	765	
QQY4ØCA	1000 MCM AL	345	1.071	1.83	1.92	2.22	2458	27	565	920	

†Ampacities are based on the following:

Information Subject to Change without Notice.

PRODUCT NOTES:

Three Phase Operation

▲ Items are Prysmian authorized stock. The above dimensions are approximate and subject to normal manufacturing tolerances.

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 only.

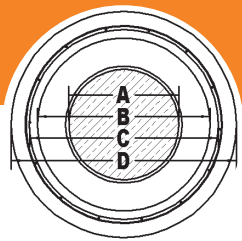
In Cable Tray: Per NEC Article 392-13, for single conductor cables, sizes 1/0 AWG and larger, installed in a single layer in an uncovered cable tray, with a maintained space of not less than one cable diameter between individual conductors, the ampacities shall not exceed the allowable ampacities stated in Table 310-70 (Aluminum), "Isolated in Air" values noted above.

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

35kV

100% | 133%

Product Number	Conductor	Insulation Thickness (mil/s)	Conductor Diameter (in.)		Insulation Diameter (in.)		Jacket Diameter (in.)	Cable Weight (lbs/1000')	Minimum Bending Radius (in.)	† Ampacity (Amps)	
			(A)	(B)	(C)	(D)				‡105°C In Duct	‡105°C In Air
35kV 100% Copper One Conductor											
QQ840CA	1/0 AWG CU	345	0.341	1.09	1.16	1.38	1042	17	215	290	
QQ940CA	2/0 AWG CU	345	0.376	1.12	1.20	1.41	1155	17	245	330	
QQA40CA	3/0 AWG CU	345	0.423	1.17	1.24	1.47	1303	18	275	380	
QQB40CA	4/0 AWG CU	345	0.479	1.23	1.30	1.53	1482	19	315	445	
QQC40CA	250 MCM CU	345	0.522	1.27	1.35	1.58	1640	19	345	490	
QQD40CA	350 MCM CU	345	0.622	1.37	1.45	1.74	2126	21	415	605	
QQE40CA	500 MCM CU	345	0.742	1.49	1.58	1.88	2718	23	500	755	
QQF40CA	750 MCM CU	345	0.917	1.68	1.77	2.05	3675	25	610	970	
QQG40CA	1000 MCM CU	345	1.071	1.83	1.92	2.22	4563	27	690	1160	
35kV 133% Copper One Conductor											
QR840CA	1/0 AWG CU	420	0.341	1.24	1.31	1.54	1217	19	215	290	
QR940CA	2/0 AWG CU	420	0.376	1.27	1.35	1.57	1335	19	245	330	
QRA40CA	3/0 AWG CU	420	0.423	1.32	1.39	1.62	1485	20	275	380	
QRB40CA	4/0 AWG CU	420	0.479	1.38	1.45	1.74	1767	21	315	445	
QRC40CA	250 MCM CU	420	0.522	1.42	1.50	1.79	1933	22	345	490	
QRD40CA	350 MCM CU	420	0.622	1.52	1.61	1.91	2367	23	415	605	
QRE40CA	500 MCM CU	420	0.742	1.64	1.73	2.02	2946	25	500	755	
QRF40CA	750 MCM CU	420	0.917	1.83	1.92	2.20	3927	27	610	970	
QRG40CA	1000 MCM CU	420	1.071	1.98	2.07	2.37	4834	29	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.

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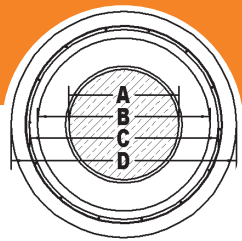
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1/3 EPR MV-105 Power (Wire Shield)

35kV

100% | 133%

Product Number	Conductor	Insulation Thickness (mil/s)	Conductor Diameter (in.)		Insulation Diameter (in.)		Jacket Diameter (in.)	Cable Weight (lbs/1000')	Minimum Bending Radius (in.)	† Ampacity (Amps)	
			(A)	(B)	(C)	(D)				‡105°C In Duct	‡105°C In Air
35kV 100% Aluminum One Conductor											
QQQ40CA	1/0 AWG AL	345	0.336	1.08	1.16	1.37	816	17	165	225	
QQR40CA	2/0 AWG AL	345	0.379	1.13	1.20	1.42	877	17	190	260	
QQS40CA	3/0 AWG AL	345	0.423	1.17	1.24	1.47	950	18	215	300	
QQT40CA	4/0 AWG AL	345	0.479	1.23	1.30	1.53	1039	19	245	345	
QQU40CA	250 MCM AL	345	0.522	1.27	1.35	1.58	1118	19	270	380	
QQV40CA	350 MCM AL	345	0.622	1.37	1.45	1.74	1390	21	330	475	
QQW40CA	500 MCM AL	345	0.742	1.49	1.58	1.88	1669	23	400	590	
QQX40CA	750 MCM AL	345	0.917	1.68	1.77	2.05	2069	25	490	765	
QQY40CA	1000 MCM AL	345	1.071	1.83	1.92	2.22	2458	27	565	920	
35kV 133% Aluminum One Conductor											
QRQ40CA	1/0 AWG AL	420	0.336	1.23	1.31	1.53	991	19	165	225	
QRR40CA	2/0 AWG AL	420	0.379	1.28	1.35	1.58	1056	19	190	260	
QRS40CA	3/0 AWG AL	420	0.423	1.32	1.39	1.62	1132	20	215	300	
QRT40CA	4/0 AWG AL	420	0.479	1.38	1.45	1.74	1323	21	245	345	
QRU40CA	250 MCM AL	420	0.522	1.42	1.50	1.79	1411	22	270	380	
QRV40CA	350 MCM AL	420	0.622	1.52	1.61	1.91	1631	23	330	475	
QRW40CA	500 MCM AL	420	0.742	1.64	1.73	2.02	1897	25	400	590	
QRX40CA	750 MCM AL	420	0.917	1.83	1.92	2.20	2321	27	490	765	
QRY40CA	1000 MCM AL	420	1.071	1.98	2.07	2.37	2730	29	565	920	

†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 310-78): 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 only.

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