

## 5-35kV 3/C EPR MV-105 POWER

Medium Voltage Commercial & Industrial Cables



### Description

Three conductor cable with stranded copper or aluminum conductors, 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, cabled with fillers and grounding conductors, overall binder tape, and overall black PVC jacket.

### Specifications

**AEIC-** AEIC CS8\*  
**ICEA-** ICEA S-93-639  
**ICEA-** ICEA S-97-682  
**UL-** UL-1072

### Ratings

Type MV-105  
 For CT USE  
 Direct Buried  
 Sunlight Resistant

**ICEE-** ICEE 383 Flame Test

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.

### Options

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

### Installation



Conduit in Air

Underground Duct

In Cable Tray

Dry Locations

Industrial



Direct Buried

Isolated in Air

Wet Locations

With Messenger

### 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:** Helically applied non-magnetic copper tape(s) over the insulation shield with a minimum overlap of 25%. A Mylar ribbon is longitudinally applied under the copper tape shield for phase identification - 1C w/ Red, 1C w/ Blue, and 1C w/ None.

**GROUNDING CONDUCTORS:** Bare stranded copper conductor, one in each interstice, per UL, ICEA, and ASTM.

**ASSEMBLY:** Phase identified shielded 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.

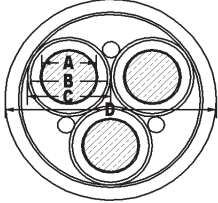
**JACKET:** Black, sunlight resistant, polyvinyl chloride (PVC) jacket tightly applied the binder tape.

### Prysmian Group

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# 5kV 3/C EPR MV-105 POWER

100/133% Medium Voltage Commercial & Industrial Cables



Product Number	Conductor	Insulation Thickness (mils)	Ground Wires	Conductor Diameter (in)			Insulation Diameter (in)		Overall Jacket Diameter (in)	Cable Weight (lbs/1000ft)	Minimum Bending Radius (in)	† Ampacity (Amps)	
				No.	Size	(A)	(B)	(C)				(D)	±105°C In Duct
<b>5kV 100% Copper Three Conductor</b>													
QJ242CA	4 AWG CU	90	3	10 AWG	0.215	0.45	0.51	1.31	1126	10	110	115	
QJ442CA	2 AWG CU	90	3	10 AWG	0.266	0.50	0.56	1.42	1436	10	145	154	
QJ642CA	1 AWG CU	90	3	8 AWG	0.299	0.53	0.59	1.49	1642	11	165	180	
QJ842CA	1/0 AWG CU	90	3	8 AWG	0.341	0.57	0.63	1.58	1914	11	190	205	
QJ942CA	2/0 AWG CU	90	3	8 AWG	0.376	0.61	0.68	1.68	2315	12	220	240	
QJA42CA	3/0 AWG CU	90	3	7 AWG	0.423	0.66	0.71	1.81	2781	13	250	280	
QJB42CA	4/0 AWG CU	90	3	7 AWG	0.479	0.71	0.77	1.94	3278	14	285	320	
QJC42CA	250 MCM CU	90	3	7 AWG	0.522	0.76	0.82	2.04	3725	15	315	355	
QJD42CA	350 MCM CU	90	3	6 AWG	0.622	0.86	0.92	2.26	4871	16	380	440	
QJE42CA	500 MCM CU	90	3	5 AWG	0.742	0.98	1.05	2.55	6591	18	460	430	
QJF42CA	750 MCM CU	90	3	4 AWG	0.917	1.16	1.24	3.01	9589	22	570	685	
QJG42CA	1000 MCM CU	90	3	4 AWG	1.071	1.32	1.39	3.34	12256	24	645	790	
<b>5kV 133% Copper Three Conductor</b>													
QK242CA	4 AWG CU	115	3	10 AWG	0.215	0.50	0.56	1.41	1233	10	110	115	
QK442CA	2 AWG CU	115	3	10 AWG	0.266	0.55	0.61	1.52	1550	11	145	154	
QK642CA	1 AWG CU	115	3	8 AWG	0.299	0.58	0.64	1.60	1760	12	165	180	
QK842CA	1/0 AWG CU	115	3	8 AWG	0.341	0.62	0.68	1.67	2038	12	190	205	
QK942CA	2/0 AWG CU	115	3	8 AWG	0.376	0.66	0.72	1.83	2514	13	220	240	
QKA42CA	3/0 AWG CU	115	3	7 AWG	0.423	0.71	0.76	1.92	2923	14	250	280	
QKB42CA	4/0 AWG CU	115	3	7 AWG	0.479	0.76	0.82	2.04	3428	15	285	320	
QKC42CA	250 MCM CU	115	3	7 AWG	0.522	0.81	0.87	2.15	3882	16	315	355	
QKD42CA	350 MCM CU	115	3	6 AWG	0.622	0.91	0.97	2.37	5042	17	380	440	
QKE42CA	500 MCM CU	115	3	5 AWG	0.742	1.03	1.10	2.66	6781	19	460	545	
QKF42CA	750 MCM CU	115	3	4 AWG	0.917	1.21	1.29	3.11	9811	22	570	685	
QKG42CA	1000 MCM CU	115	3	4 AWG	1.071	1.37	1.44	3.45	12500	25	645	790	

†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 (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, and shields short-circuited.

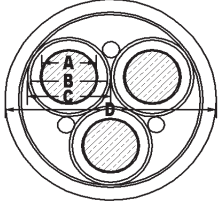
Isolated in Air (NEC Table 310-71): Three-conductor cable, 105°C conductor temperature, and 40°C ambient temperature, and shields grounded at one point only.

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 310-71 (Copper), "Isolated in Air" values noted above.

‡EPOTENAX® 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.

# 5kV 3/C EPR MV-105 POWER

100/133% Medium Voltage Commercial & Industrial Cables



Product Number	Conductor	Insulation Thickness (mils)	Ground Wires	Conductor Diameter (in)	Insulation Diameter (in)	Insulation Shield Diameter (in)	Overall Jacket Diameter (in)	Cable Weight (lbs/100ft)	Minimum Bending Radius (in)	† Ampacity (Amps)		
										±105°C In Duct	±105°C In Air	
<b>5kV 100% Aluminum Three Conductor</b>												
QJK42CA	4 AWG AL	90	3	10 AWG	0.215	0.45	0.51	1.31	862	10	86	90
QJM42CA	2 AWG AL	90	3	10 AWG	0.266	0.50	0.56	1.42	1016	10	110	120
QJO42CA	1 AWG AL	90	3	10 AWG	0.299	0.53	0.59	1.49	1112	11	130	140
QJQ42CA	1/0 AWG AL	90	3	10 AWG	0.336	0.57	0.63	1.57	1236	11	150	160
QJR42CA	2/0 AWG AL	90	3	8 AWG	0.379	0.61	0.67	1.66	1441	12	170	185
QJS42CA	3/0 AWG AL	90	3	8 AWG	0.423	0.66	0.71	1.81	1717	13	195	215
QJT42CA	4/0 AWG AL	90	3	8 AWG	0.479	0.71	0.77	1.94	1941	14	220	250
QJU42CA	250 MCM AL	90	3	8 AWG	0.522	0.76	0.82	2.04	2149	15	245	280
QJV42CA	350 MCM AL	90	3	7 AWG	0.622	0.86	0.92	2.26	2652	16	310	345
QJW42CA	500 MCM AL	90	3	6 AWG	0.742	0.98	1.05	2.55	3427	18	365	430
QJX42CA	750 MCM AL	90	3	5 AWG	0.917	1.16	1.24	3.01	4744	22	460	550
QJY42CA	1000 MCM AL	90	3	4 AWG	1.071	1.32	1.39	3.34	5910	24	535	650
<b>5kV 133% Aluminum Three Conductor</b>												
QKK42CA	4 AWG AL	115	3	10 AWG	0.215	0.50	0.56	1.41	969	10	86	90
QKM42CA	2 AWG AL	115	3	10 AWG	0.266	0.55	0.61	1.52	1130	11	110	120
QKO42CA	1 AWG AL	115	3	10 AWG	0.299	0.58	0.64	1.60	1230	12	130	140
QKQ42CA	1/0 AWG AL	115	3	10 AWG	0.336	0.62	0.68	1.67	1359	12	150	160
QKR42CA	2/0 AWG AL	115	3	8 AWG	0.379	0.66	0.72	1.83	1672	13	170	185
QKS42CA	3/0 AWG AL	115	3	8 AWG	0.423	0.71	0.76	1.92	1859	14	195	215
QKT42CA	4/0 AWG AL	115	3	8 AWG	0.479	0.76	0.82	2.04	2091	15	220	250
QKU42CA	250 MCM AL	115	3	8 AWG	0.522	0.81	0.87	2.15	2306	16	245	280
QKV42CA	350 MCM AL	115	3	7 AWG	0.622	0.91	0.97	2.37	2823	17	310	345
QKW42CA	500 MCM AL	115	3	6 AWG	0.742	1.03	1.10	2.66	3617	19	365	430
QKX42CA	750 MCM AL	115	3	5 AWG	0.917	1.21	1.29	3.11	4967	22	460	550
QKY42CA	1000 MCM AL	115	3	4 AWG	1.071	1.37	1.44	3.45	6154	25	535	650

**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 (NEC Table 310-80): 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, and shields short-circuited.

Isolated in Air (NEC Table 310-72): Three-conductor cable, 105°C conductor temperature, and 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 table 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 310-72 (Aluminum), "Isolated in Air" values noted above.

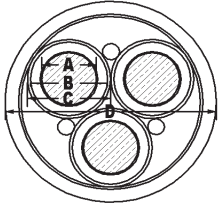
‡EPROTENAX® EPR-insulated cables are capable of operating at 105°C. However, the maximum operating temperature of the cable should be based on the maximum operating temperature of the cable accessories to be used.

**Prysmian Group**

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# 8kV 3/C EPR MV-105 POWER

100/133% Medium Voltage Commercial & Industrial Cables



Product Number	Conductor	Insulation Thickness (milis)	Ground Wires	Conductor Diameter (in)	Insulation Diameter (in)	Insulation Shield Diameter (in)	Overall Jacket Diameter (in)	Cable Weight (lbs/Kft)	Minimum Bending Radius (in)	† Ampacity (Amps)		
										±105°C In Duct	±105°C In Air	
<b>8kV 100% Copper Three Conductor</b>												
QK242CA	4 AWG CU	115	3	10 AWG	0.215	0.50	0.56	1.41	1233	10	125	135
QK442CA	2 AWG CU	115	3	10 AWG	0.266	0.55	0.61	1.52	1550	11	160	185
QK642CA	1 AWG CU	115	3	8 AWG	0.299	0.58	0.64	1.60	1760	12	185	210
QK842CA	1/0 AWG CU	115	3	8 AWG	0.341	0.62	0.68	1.69	2038	12	210	240
QK942CA	2/0 AWG CU	115	3	8 AWG	0.376	0.66	0.72	1.82	2514	13	235	275
QKA42CA	3/0 AWG CU	115	3	7 AWG	0.423	0.71	0.76	1.92	2923	14	270	315
QKB42CA	4/0 AWG CU	115	3	7 AWG	0.479	0.76	0.82	2.04	3428	15	305	360
QKC42CA	250 MCM CU	115	3	7 AWG	0.522	0.81	0.87	2.15	3882	16	335	400
QKD42CA	350 MCM CU	115	3	6 AWG	0.622	0.91	0.97	2.37	5042	17	400	490
QKE42CA	500 MCM CU	115	3	5 AWG	0.742	1.03	1.10	2.66	6781	19	485	600
QKF42CA	750 MCM CU	115	3	4 AWG	0.917	1.21	1.29	3.11	9811	22	585	745
QKG42CA	1000 MCM CU	115	3	4 AWG	1.071	1.37	1.44	3.45	12500	25	660	860
<b>8kV 133% Copper Three Conductor</b>												
QL442CA	2 AWG CU	140	3	10 AWG	0.266	0.60	0.66	1.63	1670	12	160	185
QL642CA	1 AWG CU	140	3	8 AWG	0.299	0.63	0.69	1.76	1984	13	185	210
QL842CA	1/0 AWG CU	140	3	8 AWG	0.341	0.67	0.73	1.85	2273	13	210	240
QL942CA	2/0 AWG CU	140	3	8 AWG	0.376	0.71	0.77	1.93	2656	14	235	275
QLA42CA	3/0 AWG CU	140	3	7 AWG	0.423	0.76	0.81	2.03	3073	15	270	315
QLB42CA	4/0 AWG CU	140	3	7 AWG	0.479	0.81	0.87	2.15	3585	16	305	360
QLC42CA	250 MCM CU	140	3	7 AWG	0.522	0.86	0.92	2.26	4046	16	335	400
QLD42CA	350 MCM CU	140	3	6 AWG	0.622	0.96	1.02	2.47	5220	18	400	490
QLE42CA	500 MCM CU	140	3	5 AWG	0.742	1.08	1.15	2.83	7136	20	485	600
QLF42CA	750 MCM CU	140	3	4 AWG	0.917	1.26	1.34	3.22	10040	23	585	745
QLG42CA	1000 MCM CU	140	3	4 AWG	1.071	1.42	1.49	3.56	12752	25	660	860

†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 (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, and shields short-circuited.

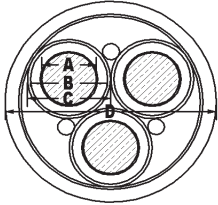
Isolated in Air (NEC Table 310-71): Three-conductor cable, 105°C conductor temperature, and 40°C ambient temperature, and shields grounded at one point only.

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 table 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 310-71 (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.

# 8kV 3/C EPR MV-105 POWER

100/133% Medium Voltage Commercial & Industrial Cables



Product Number	Conductor	Insulation Thickness (mils)	Ground Wires	Conductor Diameter (in)			Insulation Diameter (in)		Overall Jacket Diameter (in)	Cable Weight (lbs/100ft)	Minimum Bending Radius (in)	† Ampacity (Amps)	
				No.	Size	(A)	(B)	(C)				(D)	‡105°C In Duct
<b>8kV 100% Aluminum Three Conductor</b>													
QKK42CA	4 AWG AL	115	3	10 AWG	0.215	0.50	0.56	1.41	969	10	96	105	
QKM42CA	2 AWG AL	115	3	10 AWG	0.266	0.55	0.61	1.52	1130	11	125	145	
QKO42CA	1 AWG AL	115	3	10 AWG	0.299	0.58	0.64	1.60	1230	12	145	165	
QKQ42CA	1/0 AWG AL	115	3	10 AWG	0.336	0.62	0.68	1.67	1359	12	165	185	
QKR42CA	2/0 AWG AL	115	3	8 AWG	0.379	0.66	0.72	1.83	1672	13	185	215	
QKS42CA	3/0 AWG AL	115	3	8 AWG	0.423	0.71	0.76	1.92	1859	14	210	245	
QKT42CA	4/0 AWG AL	115	3	8 AWG	0.479	0.76	0.82	2.04	2091	15	240	285	
QKU42CA	250 MCM AL	115	3	8 AWG	0.522	0.81	0.87	2.15	2306	16	265	315	
QKV42CA	350 MCM AL	115	3	7 AWG	0.622	0.91	0.97	2.37	2823	17	315	385	
QKW42CA	500 MCM AL	115	3	6 AWG	0.742	1.03	1.10	2.66	3617	19	385	475	
QKX42CA	750 MCM AL	115	3	5 AWG	0.917	1.21	1.29	3.11	4967	22	475	600	
QKY42CA	1000 MCM AL	115	3	4 AWG	1.071	1.37	1.44	3.45	6154	25	545	705	
<b>8kV 133% Aluminum Three Conductor</b>													
QLM42CA	2 AWG AL	140	3	10 AWG	0.266	0.60	0.66	1.63	1251	12	125	145	
QLO42CA	1 AWG AL	140	3	10 AWG	0.299	0.63	0.69	1.76	1453	13	145	165	
QLQ42CA	1/0 AWG AL	140	3	10 AWG	0.336	0.67	0.73	1.84	1592	13	165	185	
QLR42CA	2/0 AWG AL	140	3	8 AWG	0.379	0.71	0.77	1.94	1815	14	185	215	
QLS42CA	3/0 AWG AL	140	3	8 AWG	0.423	0.76	0.81	2.03	2008	15	210	245	
QLT42CA	4/0 AWG AL	140	3	8 AWG	0.479	0.81	0.87	2.15	2248	16	240	285	
QLU42CA	250 MCM AL	140	3	8 AWG	0.522	0.86	0.92	2.26	2470	16	265	315	
QLV42CA	350 MCM AL	140	3	7 AWG	0.622	0.96	1.02	2.47	3001	18	315	385	
QLW42CA	500 MCM AL	140	3	6 AWG	0.742	1.08	1.15	2.83	3972	20	385	475	
QLX42CA	750 MCM AL	140	3	5 AWG	0.917	1.26	1.34	3.22	5196	23	475	600	
QLY42CA	1000 MCM AL	140	3	4 AWG	1.071	1.42	1.49	3.56	6405	25	545	705	

†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 (NEC Table 310-80): 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, and shields short-circuited.

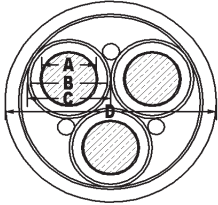
Isolated in Air (NEC Table 310-72): Three-conductor cable, 105°C conductor temperature, and 40°C ambient temperature, and shields grounded at one point only.

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 310-72 (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.

# 15kV 3/C EPR MV-105 POWER

100/133% Medium Voltage Commercial & Industrial Cables



Product Number	Conductor	Insulation Thickness (mils)	Ground Wires	Conductor Diameter (in)	Insulation Diameter (in)	Insulation Shield Diameter (in)	Overall Jacket Diameter (in)	Cable Weight (lbs/100ft)	Minimum Bending Radius (in)	† Ampacity (Amps)	‡ Ampacity (Amps)	
											±105°C In Duct	±105°C In Air
<b>15kV 100% Copper Three Conductor</b>												
QM442CA	2 AWG CU	175	3	10 AWG	0.266	0.67	0.73	1.84	1954	13	160	185
QM642CA	1 AWG CU	175	3	8 AWG	0.299	0.70	0.76	1.91	2180	14	185	210
QM842CA	1/0 AWG CU	175	3	8 AWG	0.341	0.74	0.80	2.00	2477	15	210	240
QM942CA	2/0 AWG CU	175	3	8 AWG	0.376	0.78	0.84	2.08	2868	15	235	275
QMA42CA	3/0 AWG CU	175	3	7 AWG	0.423	0.83	0.88	2.18	3293	16	270	315
QMB42CA	4/0 AWG CU	175	3	7 AWG	0.479	0.88	0.94	2.30	3817	17	305	360
QMC42CA	250 MCM CU	175	3	7 AWG	0.522	0.93	0.99	2.41	4287	17	335	400
QMD42CA	350 MCM CU	175	3	6 AWG	0.622	1.03	1.10	2.66	5545	19	400	490
QME42CA	500 MCM CU	175	3	5 AWG	0.742	1.15	1.22	2.98	7433	21	485	600
QMF42CA	750 MCM CU	175	3	4 AWG	0.917	1.33	1.41	3.37	10373	24	585	745
QMG42CA	1000 MCM CU	175	3	4 AWG	1.071	1.49	1.58	3.74	13202	27	660	860
<b>15kV 133% Copper Three Conductor</b>												
QN442CA	2 AWG CU	220	3	10 AWG	0.266	0.76	0.82	2.04	2218	15	160	185
QN642CA	1 AWG CU	220	3	8 AWG	0.299	0.79	0.85	2.11	2452	15	185	210
QN842CA	1/0 AWG CU	220	3	8 AWG	0.341	0.83	0.89	2.20	2760	16	210	240
QN942CA	2/0 AWG CU	220	3	8 AWG	0.376	0.87	0.93	2.27	3160	16	235	275
QNA42CA	3/0 AWG CU	220	3	7 AWG	0.423	0.92	0.97	2.38	3597	17	270	315
QNB42CA	4/0 AWG CU	220	3	7 AWG	0.479	0.97	1.03	2.50	4136	18	305	360
QNC42CA	250 MCM CU	220	3	7 AWG	0.522	1.02	1.09	2.64	4681	19	335	400
QND42CA	350 MCM CU	220	3	6 AWG	0.622	1.12	1.19	2.91	6068	21	400	490
QNE42CA	500 MCM CU	220	3	5 AWG	0.742	1.24	1.31	3.17	7835	23	485	600
QNF42CA	750 MCM CU	220	3	4 AWG	0.917	1.42	1.50	3.57	10822	25	585	745
QNG42CA	1000 MCM CU	220	3	4 AWG	1.071	1.58	1.67	3.94	13694	28	660	860

†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 (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, and shields short-circuited.

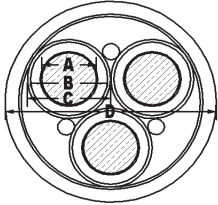
**Isolated in Air (NEC Table 310-71):** Three-conductor cable, 105°C conductor temperature, and 40°C ambient temperature, and shields grounded at one point only.

**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 table 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 310-71 (Copper), "Isolated in Air" values noted above.

‡EPROTENAX<sup>®</sup> 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.

# 15kV 3/C EPR MV-105 POWER

100/133% Medium Voltage Commercial & Industrial Cables



Product Number	Conductor	Insulation Thickness (mils)	Ground Wires	Conductor Diameter (in)	Insulation Diameter (in)	Insulation Shield Diameter (in)	Overall Jacket Diameter (in)	Cable Weight (lbs/100ft)	Minimum Bending Radius (in)	† Ampacity (Amps)		
										±105°C In Duct	±105°C In Air	
<b>15kV 100% Aluminum Three Conductor</b>												
QMM42CA	2 AWG AL	175	3	10 AWG	0.266	0.67	0.73	1.84	1534	13	125	145
QMO42CA	1 AWG AL	175	3	10 AWG	0.299	0.70	0.76	1.91	1649	14	145	165
QM42CA	1/0 AWG AL	175	3	10 AWG	0.336	0.74	0.80	1.99	1796	14	165	185
QMR42CA	2/0 AWG AL	175	3	8 AWG	0.379	0.78	0.84	2.09	2027	15	185	215
QMS42CA	3/0 AWG AL	175	3	8 AWG	0.423	0.83	0.88	2.18	2229	16	210	245
QMT42CA	4/0 AWG AL	175	3	8 AWG	0.479	0.88	0.94	2.30	2480	17	240	285
QMU42CA	250 MCM AL	175	3	8 AWG	0.522	0.93	0.99	2.41	2712	17	265	315
QMV42CA	350 MCM AL	175	3	7 AWG	0.622	1.03	1.10	2.66	3325	19	315	385
QMW42CA	500 MCM AL	175	3	6 AWG	0.742	1.15	1.22	2.98	4269	21	385	475
QMX42CA	750 MCM AL	175	3	5 AWG	0.917	1.33	1.41	3.37	5529	24	475	600
QMY42CA	1000 MCM AL	175	3	4 AWG	1.071	1.49	1.58	3.74	6856	27	545	705
<b>15kV 133% Aluminum Three Conductor</b>												
QNM42CA	2 AWG AL	220	3	10 AWG	0.266	0.76	0.82	2.04	1798	15	125	145
QNO42CA	1 AWG AL	220	3	10 AWG	0.299	0.79	0.85	2.11	1922	15	145	165
QNQ42CA	1/0 AWG AL	220	3	10 AWG	0.336	0.83	0.89	2.19	2077	16	165	185
QNR42CA	2/0 AWG AL	220	3	8 AWG	0.379	0.87	0.93	2.28	2320	16	185	215
QNS42CA	3/0 AWG AL	220	3	8 AWG	0.423	0.92	0.97	2.38	2533	17	210	245
QNT42CA	4/0 AWG AL	220	3	8 AWG	0.479	0.97	1.03	2.50	2798	18	240	285
QNU42CA	250 MCM AL	220	3	8 AWG	0.522	1.02	1.09	2.64	3105	19	265	315
QNV42CA	350 MCM AL	220	3	7 AWG	0.622	1.12	1.19	2.91	3848	21	315	385
QNW42CA	500 MCM AL	220	3	6 AWG	0.742	1.24	1.31	3.17	4671	23	385	475
QNX42CA	750 MCM AL	220	3	5 AWG	0.917	1.42	1.50	3.57	5978	25	475	600
QNY42CA	1000 MCM AL	220	3	4 AWG	1.071	1.58	1.67	3.94	7348	28	545	705

†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 (NEC Table 310-80): 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, and shields short-circuited.

Isolated in Air (NEC Table 310-72): Three-conductor cable, 105°C conductor temperature, and 40°C ambient temperature, and shields grounded at one point only.

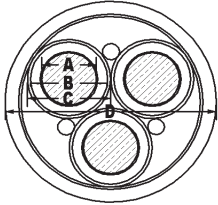
In Cable Tray: Per NEC Article 392-13, for single conductor cables, sizes 1/0 AWG and larger, installed in a single layer in an uncovered table tray, with a maintained space of not less than one cable diameter between individual conductors, the ampacities shall not exceed the allowable ampacities stated in Table 310-72 (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.



# 25kV 3/C EPR MV-105 POWER

100/133% Medium Voltage Commercial & Industrial Cables



Product Number	Conductor	Insulation Thickness (mils)	Ground Wires	Conductor Diameter (in)	Insulation Diameter (in)	Insulation Shield Diameter (in)	Overall Jacket Diameter (in)	Cable Weight (lbs./kft)	Minimum Bending Radius (in)	† Ampacity (Amps)		
										±105°C In Duct	±105°C In Air	
<b>25kV 100% Copper Three Conductor</b>												
QO642CA	1 AWG CU	260	3	8 AWG	0.299	0.87	0.93	2.28	2714	16	185	210
QO842CA	1/0 AWG CU	260	3	8 AWG	0.341	0.91	0.97	2.37	3031	17	210	240
QO942CA	2/0 AWG CU	260	3	8 AWG	0.376	0.95	1.01	2.45	3439	18	235	275
QOA42CA	3/0 AWG CU	260	3	7 AWG	0.423	1.00	1.07	2.58	3948	19	270	315
QOB42CA	4/0 AWG CU	260	3	7 AWG	0.479	1.05	1.13	2.70	4502	19	305	360
QOC42CA	250 MCM CU	260	3	7 AWG	0.522	1.10	1.17	2.87	5158	21	335	400
QOD42CA	350 MCM CU	260	3	6 AWG	0.622	1.20	1.27	3.09	6417	22	400	490
QOE42CA	500 MCM CU	260	3	5 AWG	0.742	1.32	1.39	3.35	8211	24	485	600
QOF42CA	750 MCM CU	260	3	4 AWG	0.917	1.50	1.59	3.78	11328	27	585	745
QOG42CA	1000 MCM CU	260	3	4 AWG	1.071	1.66	1.75	4.11	14151	29	660	860
<b>25kV 133% Copper Three Conductor</b>												
QQ842CA	1/0 AWG CU	345	3	8 AWG	0.341	1.09	1.16	2.84	3907	20	210	240
QQ942CA	2/0 AWG CU	345	3	8 AWG	0.376	1.12	1.20	2.92	4338	21	235	275
QQA42CA	3/0 AWG CU	345	3	7 AWG	0.423	1.17	1.24	3.02	4817	22	270	315
QQB42CA	4/0 AWG CU	345	3	7 AWG	0.479	1.23	1.30	3.14	5405	22	305	360
QQC42CA	250 MCM CU	345	3	7 AWG	0.522	1.27	1.35	3.25	5931	23	335	400
QQD42CA	350 MCM CU	345	3	6 AWG	0.622	1.37	1.45	3.46	7239	25	400	490
QQE42CA	500 MCM CU	345	3	5 AWG	0.742	1.49	1.58	3.76	9180	27	485	600

†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 (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, and shields short-circuited.

Isolated in Air (NEC Table 310-71): Three-conductor cable, 105°C conductor temperature, and 40°C ambient temperature, and shields grounded at one point only.

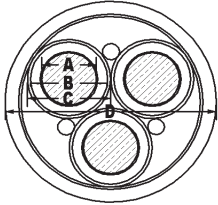
In Cable Tray: Per NEC Article 392-13, for single conductor cables, sizes 1/0 AWG and larger, installed in a single layer in an uncovered cable tray, with a maintained space of not less than one cable diameter between individual conductors, the ampacities shall not exceed the allowable ampacities stated in Table 310-71 (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.



# 25kV 3/C EPR MV-105 POWER

100/133% Medium Voltage Commercial & Industrial Cables



Product Number	Conductor	Insulation Thickness (mils)	Ground Wires	Conductor Diameter (in)	Insulation Diameter (in)	Insulation Shield Diameter (in)	Overall Jacket Diameter (in)	Cable Weight (lbs/100ft)	Minimum Bending Radius (in)	† Ampacity (Amps)		
										±105°C In Duct	±105°C In Air	
<b>25kV 100% Aluminum Three Conductor</b>												
Q0042CA	1 AWG AL	260	3	10 AWG	0.299	0.87	0.93	2.28	2183	16	145	165
Q0Q42CA	1/0 AWG AL	260	3	10 AWG	0.336	0.91	0.97	2.36	2347	17	165	185
Q0R42CA	2/0 AWG AL	260	3	8 AWG	0.379	0.95	1.01	2.45	2599	18	185	215
Q0S42CA	3/0 AWG AL	260	3	8 AWG	0.423	1.00	1.07	2.58	2884	19	210	245
Q0T42CA	4/0 AWG AL	260	3	8 AWG	0.479	1.05	1.13	2.70	3164	19	240	285
Q0U42CA	250 MCM AL	260	3	8 AWG	0.522	1.10	1.17	2.87	3582	21	265	315
Q0V42CA	350 MCM AL	260	3	7 AWG	0.622	1.20	1.27	3.09	4198	22	315	385
Q0W42CA	500 MCM AL	260	3	6 AWG	0.742	1.32	1.39	3.35	5047	24	385	475
Q0X42CA	750 MCM AL	260	3	5 AWG	0.917	1.50	1.59	3.78	6483	27	475	600
Q0Y42CA	1000 MCM AL	260	3	4 AWG	1.071	1.66	1.75	4.11	7804	29	545	705
<b>25kV 133% Aluminum Three Conductor</b>												
QQ42CA	1/0 AWG AL	345	3	10 AWG	0.336	1.08	1.16	2.83	3220	20	165	185
QQR42CA	2/0 AWG AL	345	3	8 AWG	0.379	1.13	1.20	2.92	3500	21	185	215
QQS42CA	3/0 AWG AL	345	3	8 AWG	0.423	1.17	1.24	3.02	3753	22	210	245
QQT42CA	4/0 AWG AL	345	3	8 AWG	0.479	1.23	1.30	3.14	4068	22	240	285
QQU42CA	250 MCM AL	345	3	8 AWG	0.522	1.27	1.35	3.25	4355	23	265	315
QQV42CA	350 MCM AL	345	3	7 AWG	0.622	1.37	1.45	3.46	5020	25	315	385
QQW42CA	500 MCM AL	345	3	6 AWG	0.742	1.49	1.58	3.76	6016	27	385	475

† Ampacities are based on the following:

**Three Phase Operation**

In Duct (NEC Table 310-80): 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, and shields short-circuited.

Isolated in Air (NEC Table 310-72): Three-conductor cable, 105°C conductor temperature, and 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 table 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 310-72 (Aluminum), "Isolated in Air" values noted above.

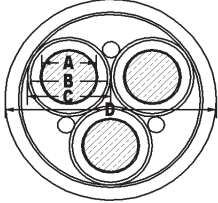
‡EPROTENAX® EPR-insulated cables are capable of operating at 105°C. However, the maximum operating temperature of the cable should be based on the maximum operating temperature of the cable accessories to be used.

**PRODUCT NOTES:**

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

# 35kV 3/C EPR MV-105 POWER

100/133% Medium Voltage Commercial & Industrial Cables



Product Number	Conductor	Insulation Thickness (mils)	Ground Wires	Conductor		Insulation		Overall Jacket		Cable Weight (lbs./kft)	Minimum Bending Radius (in)	† Ampacity (Amps)	
				No.	Size	(A)	(B)	(C)	(D)			±105°C In Duct	±105°C In Air
<b>35kV 100% Copper Three Conductor</b>													
QQ842CA	1/0 AWG CU	345	3	8 AWG	0.341	1.09	1.16	2.84	3907	20	210	240	
QQ942CA	2/0 AWG CU	345	3	8 AWG	0.376	1.12	1.20	2.92	4338	21	235	275	
QQA42CA	3/0 AWG CU	345	3	7 AWG	0.423	1.17	1.24	3.02	4817	22	270	315	
QQB42CA	4/0 AWG CU	345	3	7 AWG	0.479	1.23	1.30	3.14	5405	22	305	360	
QQC42CA	250 MCM CU	345	3	7 AWG	0.522	1.27	1.35	3.25	5931	23	335	400	
QQD42CA	350 MCM CU	345	3	6 AWG	0.622	1.37	1.45	3.46	7239	25	400	490	
QQE42CA	500 MCM CU	345	3	5 AWG	0.742	1.49	1.58	3.76	9180	27	485	600	
<b>35kV 133% Copper Three Conductor</b>													
QR842CA	1/0 AWG CU	420	3	8 AWG	0.341	1.24	1.31	3.17	4563	23	210	240	
QR942CA	2/0 AWG CU	420	3	8 AWG	0.376	1.27	1.35	3.24	5009	23	235	275	
QRA42CA	3/0 AWG CU	420	3	7 AWG	0.423	1.32	1.39	3.34	5508	24	270	315	
QRB42CA	4/0 AWG CU	420	3	7 AWG	0.479	1.38	1.45	3.46	6120	25	305	360	
QRC42CA	250 MCM CU	420	3	7 AWG	0.522	1.42	1.50	3.57	6666	25	335	400	
QRD42CA	350 MCM CU	420	3	6 AWG	0.622	1.52	1.61	3.82	8106	27	400	490	
QRE42CA	500 MCM CU	420	3	5 AWG	0.742	1.64	1.73	4.08	10016	29	485	600	

†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 (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, and shields short-circuited.

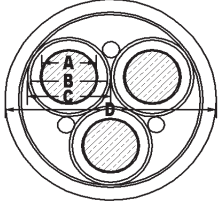
Isolated in Air (NEC Table 310-71): Three-conductor cable, 105°C conductor temperature, and 40°C ambient temperature, and shields grounded at one point only.

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 table 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 310-71 (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.

# 35kV 3/C EPR MV-105 POWER

100/133% Medium Voltage Commercial & Industrial Cables



Product Number	Conductor	Insulation Thickness (mils)	Ground Wires	Conductor Diameter (in)	Insulation Diameter (in)	Insulation Shield Diameter (in)	Overall Jacket Diameter (in)	Cable Weight (lbs/1000ft)	Minimum Bending Radius (in)	† Ampacity (Amps)		
										±105°C In Duct	±105°C In Air	
<b>35kV 100% Aluminum Three Conductor</b>												
QQQ42CA	1/0 AWG AL	345	3	10 AWG	0.336	1.08	1.16	2.83	3220	21	165	185
QQR42CA	2/0 AWG AL	345	3	8 AWG	0.379	1.13	1.20	2.92	3500	21	185	215
QQS42CA	3/0 AWG AL	345	3	8 AWG	0.423	1.17	1.24	3.02	3753	22	210	245
QQT42CA	4/0 AWG AL	345	3	8 AWG	0.479	1.23	1.30	3.14	4068	23	240	285
QQU42CA	250 MCM AL	345	3	8 AWG	0.522	1.27	1.35	3.25	4355	24	265	315
QQV42CA	350 MCM AL	345	3	7 AWG	0.622	1.37	1.45	3.46	5020	25	315	385
QQW42CA	500 MCM AL	345	3	6 AWG	0.742	1.49	1.58	3.76	6016	28	385	475
<b>35kV 133% Aluminum Three Conductor</b>												
QRQ42CA	1/0 AWG AL	420	3	10 AWG	0.336	1.23	1.31	3.16	3874	23	165	185
QRR42CA	2/0 AWG AL	420	3	8 AWG	0.379	1.28	1.35	3.25	4172	23	185	215
QRS42CA	3/0 AWG AL	420	3	8 AWG	0.423	1.32	1.39	3.34	4444	24	210	245
QRT42CA	4/0 AWG AL	420	3	8 AWG	0.479	1.38	1.45	3.46	4782	25	240	285
QRU42CA	250 MCM AL	420	3	8 AWG	0.522	1.42	1.50	3.57	5091	25	265	315
QRV42CA	350 MCM AL	420	3	7 AWG	0.622	1.52	1.61	3.82	5887	27	315	385
QRW42CA	500 MCM AL	420	3	6 AWG	0.742	1.64	1.73	4.08	6852	29	385	475

†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 (NEC Table 310-80): 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, and shields short-circuited.

Isolated in Air (NEC Table 310-72): Three-conductor cable, 105°C conductor temperature, and 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 table 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 310-72 (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.