



## 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

## Ratings

**AEIC** AEIC CS8\*

**ICEA** ICEA S-93-639

**ICEA** ICEA S-97-682

**UL** UL 1072

Type MV-105  
For CT USE  
Direct Buried  
Sunlight Resistant

**IEEE** IEEE 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.



## 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

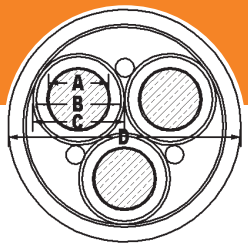
- Black sunlight resistant polyvinyl chloride (PVC) jacket tightly applied over the binder tape.

## Options

- Strandseal®
- Compressed or Compact stranded conductors
- Zero or One grounding conductor
- Colored Jackets
- CPE, LLDPE, or LSOH Jacket
- Oil-resistant Jacket

## Installations

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



# 3/C EPR MV-105 Power

5kV  
100% | 133%

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./100')		Minimum Bending Radius (in.)		† Ampacity (Amps)		
		No.	Size	(A)	(B)	(C)	(D)							‡105°C In Duct	‡105°C In Air					
<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	12	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	545								
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	1.69	2038	12	190	205								
QK942CA	2/0 AWG CU	115	3	8 AWG	0.376	0.66	0.72	1.82	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:

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 310-79): Three-conductor cable 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 310-71): Three-conductor cable, 105°C conductor temperature, 40°C ambient temperature, and shields short-circuited.

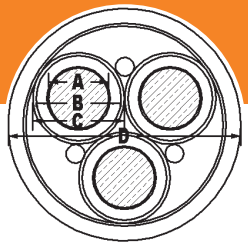
In Cable Tray: Per NEC Article 392-13, for multi-conductor cables installed in a single layer in an uncovered cable tray, with maintained spacing of not less than one cable diameter between cables, the ampacities shall not exceed the allowable ampacities stated in Table 310-71 (Copper), "Isolated in Air" values noted above.

‡EPRONEX® 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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# 3/C EPR MV-105 Power

5kV  
100% | 133%

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)		
		No.	Size	(A)	(B)	(C)	(D)							‡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								

†Ampacities are based on the following:

**PRODUCT NOTES:**

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**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, 100% load factor, and shields short-circuited.

Isolated in Air (NEC Table 310-72): Three-conductor cable, 105°C conductor temperature, 40°C ambient temperature, and shields short-circuited.

In Cable Tray: Per NEC Article 392-13, for multi-conductor cables installed in a single layer in an uncovered cable tray, with maintained spacing of not less than one cable diameter between cables, the ampacities shall not exceed the allowable ampacities stated in Table 310-72 (Aluminum), "Isolated in Air" values noted above.

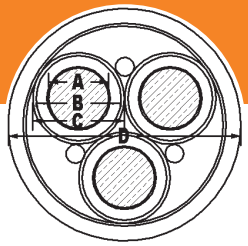
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# 3/C EPR MV-105 Power

8kV

100% | 133%

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./ft)		Minimum Bending Radius (in.)		† Ampacity (Amps)		
		No.	Size	(A)	(B)	(C)	(D)							‡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								

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**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, 100% load factor, and shields short-circuited.

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

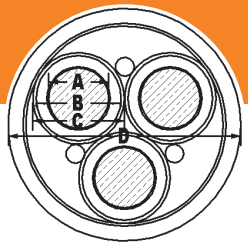
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‡EPRONAX™ EPR-insulated cables are capable of operating at 105°C. However, the maximum operating temperature of the cable should be based on the maximum operating temperature of the cable accessories to be used.



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# 3/C EPR MV-105 Power

8kV

100% | 133%

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)		
		No.	Size	(A)	(B)	(C)	(D)							‡105°C In Duct	‡105°C In Air					
<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								

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**Three Phase Operation**

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Isolated in Air (NEC Table 310-72): Three-conductor cable, 105°C conductor temperature, 40°C ambient temperature, and shields short-circuited.

In Cable Tray: Per NEC Article 392-13, for multi-conductor cables installed in a single layer in an uncovered cable tray, with maintained spacing of not less than one cable diameter between cables, the ampacities shall not exceed the allowable ampacities stated in Table 310-72 (Aluminum), "Isolated in Air" values noted above.

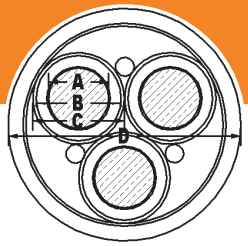
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Product Number	Conductor	Insulation Thickness (mils)		Ground Wires		Conductor Diameter (in.)		Insulation Diameter (in.)		Insulation Shield Diameter (in.)		Overall Jacket Diameter (in.)		Cable Weight (lbs/100')		Minimum Bending Radius (in.)		† Ampacity (Amps)		
		No.	Size	(A)	(B)	(C)	(D)							‡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:

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 310-79): Three-conductor cable 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 310-71): Three-conductor cable, 105°C conductor temperature, 40°C ambient temperature, and shields short-circuited.

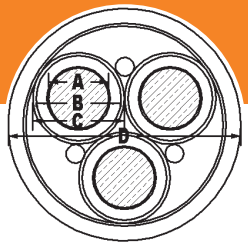
In Cable Tray: Per NEC Article 392-13, for multi-conductor cables installed in a single layer in an uncovered cable tray, with maintained spacing of not less than one cable diameter between cables, the ampacities shall not exceed the allowable ampacities stated in Table 310-71 (Copper), "Isolated in Air" values noted above.

‡EPRONEX™ 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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# 3/C EPR MV-105 Power

15kV  
100% | 133%

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)		
		No.	Size	(A)	(B)	(C)	(D)							‡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								
QMQ42CA	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:

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 310-80): Three-conductor cable 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 310-72): Three-conductor cable, 105°C conductor temperature, 40°C ambient temperature, and shields short-circuited.

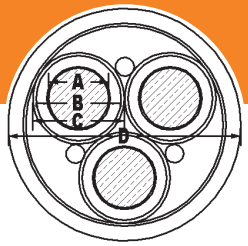
In Cable Tray: Per NEC Article 392-13, for multi-conductor cables installed in a single layer in an uncovered cable tray, with maintained spacing of not less than one cable diameter between cables, the ampacities shall not exceed the allowable ampacities stated in Table 310-72 (Aluminum), "Isolated in Air" values noted above.

‡EPRONEX™ 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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# 3/C EPR MV-105 Power

25kV

100% | 133%

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/100')		Minimum Bending Radius (in.)		† Ampacity (Amps)		
		No.	Size	(A)	(B)	(C)	(D)							‡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:

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 310-79): Three-conductor cable 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 310-71): Three-conductor cable, 105°C conductor temperature, 40°C ambient temperature, and shields short-circuited.

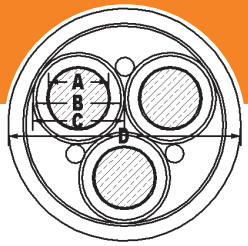
In Cable Tray: Per NEC Article 392-13, for multi-conductor cables installed in a single layer in an uncovered cable tray, with maintained spacing of not less than one cable diameter between cables, the ampacities shall not exceed the allowable ampacities stated in Table 310-71 (Copper), "Isolated in Air" values noted above.

‡EPRONEX™ 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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# 3/C EPR MV-105 Power

25kV

100% | 133%

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)		
		No.	Size	(A)	(B)	(C)	(D)							‡105°C In Duct	‡105°C In Air					
<b>25kV 100% Aluminum Three Conductor</b>																				
QOQ42CA	1 AWG AL	260	3	10 AWG	0.299	0.87	0.93	2.28	2.183	16	145	165								
QOQ42CA	1/0 AWG AL	260	3	10 AWG	0.336	0.91	0.97	2.36	2347	17	165	185								
QOR42CA	2/0 AWG AL	260	3	8 AWG	0.379	0.95	1.01	2.45	2599	18	185	215								
QOS42CA	3/0 AWG AL	260	3	8 AWG	0.423	1.00	1.07	2.58	2884	19	210	245								
QOT42CA	4/0 AWG AL	260	3	8 AWG	0.479	1.05	1.13	2.70	3164	19	240	285								
QOU42CA	250 MCM AL	260	3	8 AWG	0.522	1.10	1.17	2.87	3582	21	265	315								
QOV42CA	350 MCM AL	260	3	7 AWG	0.622	1.20	1.27	3.09	4198	22	315	385								
QOW42CA	500 MCM AL	260	3	6 AWG	0.742	1.32	1.39	3.35	5047	24	385	475								
QOX42CA	750 MCM AL	260	3	5 AWG	0.917	1.50	1.59	3.78	6483	27	475	600								
QOY42CA	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>																				
QQQ42CA	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:

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 310-80): Three-conductor cable 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 310-72): Three-conductor cable, 105°C conductor temperature, 40°C ambient temperature, and shields short-circuited.

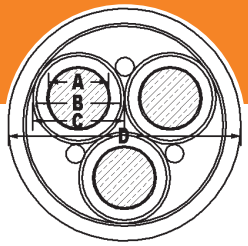
In Cable Tray: Per NEC Article 392-13, for multi-conductor cables installed in a single layer in an uncovered cable tray, with maintained spacing of not less than one cable diameter between cables, the ampacities shall not exceed the allowable ampacities stated in Table 310-72 (Aluminum), "Isolated in Air" values noted above.

‡EPRONAX™ 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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# 3/C EPR MV-105 Power

35kV

100% | 133%

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/1000')		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:

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 310-79): Three-conductor cable 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 310-71): Three-conductor cable, 105°C conductor temperature, 40°C ambient temperature, and shields short-circuited.

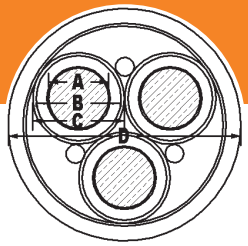
In Cable Tray: Per NEC Article 392-13, for multi-conductor cables installed in a single layer in an uncovered cable tray, with maintained spacing of not less than one cable diameter between cables, the ampacities shall not exceed the allowable ampacities stated in Table 310-71 (Copper), "Isolated in Air" values noted above.

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



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# 3/C EPR MV-105 Power

35kV

100% | 133%

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/ft)		Minimum Bending Radius (in.)		† Ampacity (Amps)		
		No.	Size	(A)	(B)	(C)	(D)							‡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:

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 310-80): Three-conductor cable 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 310-72): Three-conductor cable, 105°C conductor temperature, 40°C ambient temperature, and shields short-circuited.

In Cable Tray: Per NEC Article 392-13, for multi-conductor cables installed in a single layer in an uncovered cable tray, with maintained spacing of not less than one cable diameter between cables, the ampacities shall not exceed the allowable ampacities stated in Table 310-72 (Aluminum), "Isolated in Air" values noted above.

‡EPRONEX™ 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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