

## 5-35kV 3/C TRXLPE MV-90 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 VOLTALENE™ TRXLPE 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-90  
 Direct Buried  
 Sunlight Resistant

For 90°C continuous, 130°C emergency, 250°C short-circuit operation.

### Options

- Strandseal®
- Compact stranded conductors
- Super smooth conductor shield
- Zero or One grounding conductor
- Colored Jackets
- LLDPE, CPE or LSOH Jacket
- Oil Resistant jacket

### Installation



Conduit in Air



Direct Buried



Underground Duct



Isolated in Air



Wet Locations



Dry Locations



With Messenger



Industrial

### Design Parameters

**CONDUCTOR:** Class B Compressed concentric strand soft drawn annealed copper per ASTM.

**CONDUCTOR SHIELD:** Extruded thermosetting semiconducting shield which is free stripping from the conductor and bonded to the insulation.

**INSULATION:** Natural high dielectric strength VOLTALENE™ TRXLPE insulation, exhibiting an optimum balance of mechanical and electrical properties, insuring resistance to treeing.

**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 nominal 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.

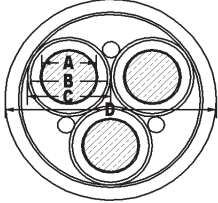
**GROUNDING CONDUCTORS:** Bare stranded copper conductor, one in each interstice, per UL, ICEA, and ASTM.

**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.

# 5kV 3/C TRXLPE MV-90 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./kft)	Minimum Bending Radius (in)	† Ampacity (Amps)
				No.	Size	(A)	(B)	(C)	(D)			
<b>5kV 100% Copper Three Conductor</b>												
Q42420A	4 AWG CU	90	3	10 AWG	0.226	0.45	0.51	1.32	1097	10	100	105
Q44420A	2 AWG CU	90	3	10 AWG	0.284	0.51	0.57	1.44	1412	11	135	140
Q46420A	1 AWG CU	90	3	8 AWG	0.324	0.55	0.61	1.53	1682	11	155	160
Q48420A	1/0 AWG CU	90	3	8 AWG	0.364	0.59	0.65	1.61	1948	12	175	185
Q49420A	2/0 AWG CU	90	3	8 AWG	0.408	0.64	0.69	1.71	2271	12	200	215
Q4A420A	3/0 AWG CU	90	3	7 AWG	0.458	0.69	0.74	1.88	2812	14	230	250
Q4B420A	4/0 AWG CU	90	3	7 AWG	0.515	0.74	0.80	2.00	3317	15	265	285
Q4C420A	250 MCM CU	90	3	7 AWG	0.561	0.80	0.85	2.11	3761	15	290	320
Q4D420A	350 MCM CU	90	3	6 AWG	0.664	0.90	0.95	2.34	4918	17	355	395
Q4E420A	500 MCM CU	90	3	5 AWG	0.794	1.03	1.10	2.65	6668	19	430	485
Q4F420A	750 MCM CU	90	3	4 AWG	0.974	1.22	1.29	3.12	9629	22	530	615
Q4G420A	1000 MCM CU	90	3	4 AWG	1.124	1.37	1.44	3.44	12287	25	600	705
<b>5kV 133% Copper Three Conductor</b>												
Q52420A	4 AWG CU	115	3	10 AWG	0.226	0.50	0.56	1.42	1193	10	100	105
Q54420A	2 AWG CU	115	3	10 AWG	0.284	0.56	0.62	1.55	1515	11	135	140
Q56420A	1 AWG CU	115	3	8 AWG	0.324	0.60	0.66	1.64	1789	12	155	160
Q58420A	1/0 AWG CU	115	3	8 AWG	0.364	0.64	0.70	1.78	2158	13	175	185
Q59420A	2/0 AWG CU	115	3	8 AWG	0.408	0.69	0.74	1.88	2493	14	200	215
Q5A420A	3/0 AWG CU	115	3	7 AWG	0.458	0.74	0.79	1.99	2941	14	230	250
Q5B420A	4/0 AWG CU	115	3	7 AWG	0.515	0.79	0.85	2.11	3453	15	265	285
Q5C420A	250 MCM CU	115	3	7 AWG	0.561	0.85	0.90	2.22	3903	16	290	320
Q5D420A	350 MCM CU	115	3	6 AWG	0.664	0.95	1.00	2.44	5072	18	355	395
Q5E420A	500 MCM CU	115	3	5 AWG	0.794	1.08	1.15	2.76	6839	20	430	485
Q5F420A	750 MCM CU	115	3	4 AWG	0.974	1.27	1.34	3.22	9829	23	530	615
Q5G420A	1000 MCM CU	115	3	4 AWG	1.124	1.42	1.49	3.55	12504	25	600	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 (2011 NEC Table 310.15(B)(79): Three-conductor cable in plastic duct, direct-buried, 90°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 (2011 NEC Table 310.15(B)(71): Three-conductor cable, 90°C conductor temperature, and 40°C ambient temperature, and shields grounded at one point only.

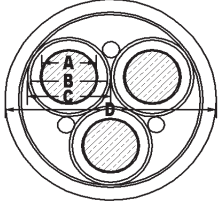
In Cable Tray: Per 2011 NEC 392.80(B)(1)(b), for multi-conductor cables installed in a single layer in an uncovered cable tray, with maintained spacing of not less than one cable diameter between cables, the ampacities shall not exceed the allowable ampacities stated in 2011 NEC Table 310.15(B)(71) (Copper), "Isolated in Air" values noted above.

**Prysmian Group**

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## 5kV 3/C TRXLPE MV-90 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)	90°C	
											In Duct	In Air
<b>5kV 100% Aluminum Three Conductor</b>												
Q4K420A	4 AWG AL	90	3	10 AWG	0.226	0.45	0.51	1.32	833	10	80	81
Q4M420A	2 AWG AL	90	3	10 AWG	0.284	0.51	0.57	1.44	993	11	105	110
Q4O420A	1 AWG AL	90	3	10 AWG	0.324	0.55	0.61	1.53	1093	11	120	125
Q4Q420A	1/0 AWG AL	90	3	10 AWG	0.364	0.59	0.65	1.61	1218	12	140	145
Q4R420A	2/0 AWG AL	90	3	8 AWG	0.408	0.64	0.69	1.77	1522	13	160	170
Q4S420A	3/0 AWG AL	90	3	8 AWG	0.458	0.69	0.74	1.88	1705	14	180	195
Q4T420A	4/0 AWG AL	90	3	8 AWG	0.515	0.74	0.80	2.00	1930	15	205	225
Q4U420A	250 MCM AL	90	3	8 AWG	0.561	0.80	0.85	2.11	2131	15	230	250
Q4V420A	350 MCM AL	90	3	7 AWG	0.664	0.90	0.95	2.34	2643	17	280	310
Q4W420A	500 MCM AL	90	3	6 AWG	0.794	1.03	1.10	2.65	3424	19	340	385
Q4X420A	750 MCM AL	90	3	5 AWG	0.974	1.22	1.29	3.12	4755	22	425	495
Q4Y420A	1000 MCM AL	90	3	4 AWG	1.124	1.37	1.44	3.44	5886	25	495	585
<b>5kV 133% Aluminum Three Conductor</b>												
Q5K420A	4 AWG AL	115	3	10 AWG	0.226	0.50	0.56	1.42	929	10	80	81
Q5M420A	2 AWG AL	115	3	10 AWG	0.284	0.56	0.62	1.55	1095	11	105	110
Q5O420A	1 AWG AL	115	3	10 AWG	0.324	0.60	0.66	1.64	1200	12	120	125
Q5Q420A	1/0 AWG AL	115	3	10 AWG	0.364	0.64	0.70	1.78	1429	13	140	145
Q5R420A	2/0 AWG AL	115	3	8 AWG	0.408	0.69	0.74	1.88	1645	14	160	170
Q5S420A	3/0 AWG AL	115	3	8 AWG	0.458	0.74	0.79	1.99	1834	14	180	195
Q5T420A	4/0 AWG AL	115	3	8 AWG	0.515	0.79	0.85	2.11	2066	15	205	225
Q5U420A	250 MCM AL	115	3	8 AWG	0.561	0.85	0.90	2.22	2273	16	230	250
Q5V420A	350 MCM AL	115	3	7 AWG	0.664	0.95	1.00	2.44	2797	18	280	310
Q5W420A	500 MCM AL	115	3	6 AWG	0.794	1.08	1.15	2.76	3595	20	340	385
Q5X420A	750 MCM AL	115	3	5 AWG	0.974	1.27	1.34	3.22	4955	23	425	495
Q5Y420A	1000 MCM AL	115	3	4 AWG	1.124	1.42	1.49	3.55	6103	25	495	585

**PRODUCT NOTES:**
**Three Phase Operation**

<sup>5</sup> Items are Prysmian authorized stock.  
The above dimensions are approximate and subject to normal manufacturing tolerances.

In Duct (2011 NEC Table 310.15(B)(80)): Three-conductor cable in plastic duct, direct-buried, 90°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 (2011 NEC Table 310.15(B)(72)): Three-conductor cable, 90°C conductor temperature, and 40°C ambient temperature, and shields grounded at one point only.

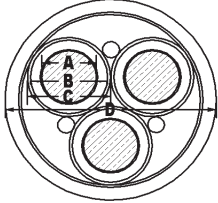
In Cable Tray: Per 2011 NEC 392.80(B)(1)(b), for single conductor cables, sizes 1/0 AWG and larger, installed in a single layer in an uncovered cable tray, with a maintained space of not less than one cable diameter between individual conductors, the ampacities shall not exceed the allowable ampacities stated in 2011 NEC Table 310.15(B)(72) (Aluminum), "Isolated in Air" values noted above.

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# 8kV 3/C TRXLPE MV-90 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)	90°C In Duct		90°C In Air	
											No.	Size	(A)	(B)
<b>8kV 100% Copper Three Conductor</b>														
Q52420A	4 AWG CU	115	3	10 AWG	0.226	0.50	0.56	1.42	1193	10	115	120		
Q54420A	2 AWG CU	115	3	10 AWG	0.284	0.56	0.62	1.55	1515	11	150	165		
Q56420A	1 AWG CU	115	3	8 AWG	0.324	0.60	0.66	1.64	1789	12	170	185		
Q58420A	1/0 AWG CU	115	3	8 AWG	0.364	0.64	0.70	1.78	2158	13	195	215		
Q59420A	2/0 AWG CU	115	3	8 AWG	0.408	0.69	0.74	1.88	2493	14	220	245		
Q5A420A	3/0 AWG CU	115	3	7 AWG	0.458	0.74	0.79	1.99	2941	14	250	285		
Q5B420A	4/0 AWG CU	115	3	7 AWG	0.515	0.79	0.85	2.11	3453	15	285	325		
Q5C420A	250 MCM CU	115	3	7 AWG	0.561	0.85	0.90	2.22	3903	16	310	360		
Q5D420A	350 MCM CU	115	3	6 AWG	0.664	0.95	1.00	2.44	5072	18	375	435		
Q5E420A	500 MCM CU	115	3	5 AWG	0.794	1.08	1.15	2.76	6839	20	450	535		
Q5F420A	750 MCM CU	115	3	4 AWG	0.974	1.27	1.34	3.22	9829	23	545	670		
Q5G420A	1000 MCM CU	115	3	4 AWG	1.124	1.42	1.49	3.55	12504	25	615	770		
<b>8kV 133% Copper Three Conductor</b>														
Q64420A	2 AWG CU	140	3	10 AWG	0.284	0.61	0.67	1.66	1623	12	150	165		
Q66420A	1 AWG CU	140	3	8 AWG	0.324	0.65	0.71	1.80	2002	13	170	185		
Q68420A	1/0 AWG CU	140	3	8 AWG	0.364	0.69	0.75	1.89	2282	14	195	215		
Q69420A	2/0 AWG CU	140	3	8 AWG	0.408	0.74	0.79	1.99	2622	14	220	245		
Q6A420A	3/0 AWG CU	140	3	7 AWG	0.458	0.79	0.84	2.09	3076	15	250	285		
Q6B420A	4/0 AWG CU	140	3	7 AWG	0.515	0.84	0.90	2.22	3594	16	285	325		
Q6C420A	250 MCM CU	140	3	7 AWG	0.561	0.90	0.95	2.33	4051	17	310	360		
Q6D420A	350 MCM CU	140	3	6 AWG	0.664	1.00	1.05	2.55	5232	18	375	435		
Q6E420A	500 MCM CU	140	3	5 AWG	0.794	1.13	1.20	2.93	7180	21	450	535		
Q6F420A	750 MCM CU	140	3	4 AWG	0.974	1.32	1.39	3.33	10034	24	545	670		
Q6G420A	1000 MCM CU	140	3	4 AWG	1.124	1.47	1.54	3.66	12728	26	615	770		

†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 (2011 NEC Table 310.15(B)(79): Three-conductor cable in plastic duct, direct-buried, 90°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 (2011 NEC Table 310.15(B)(71): Three-conductor cable, 90°C conductor temperature, and 40°C ambient temperature, and shields grounded at one point only.

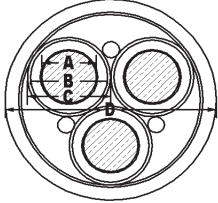
In Cable Tray: Per 2011 NEC 392.80(B)(1)(b), for multi-conductor cables installed in a single layer in an uncovered cable tray, with maintained spacing of not less than one cable diameter between cables, the ampacities shall not exceed the allowable ampacities stated in 2011 NEC Table 310.15(B)(71) (Copper), "Isolated in Air" values noted above.

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## 8kV 3/C TRXLPE MV-90 POWER

100/133% Medium Voltage Commercial & Industrial Cables



Product Number	Conductor	Insulation Thickness (mil/s)	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)	90°C In Duct		90°C In Air	
											No.	Size	(A)	(B)
<b>8kV 100% Aluminum Three Conductor</b>														
Q5K420A	4 AWG AL	115	3	10 AWG	0.226	0.50	0.56	1.42	929	10	89	95		
Q5M420A	2 AWG AL	115	3	10 AWG	0.284	0.56	0.62	1.55	1095	11	115	125		
Q5O420A	1 AWG AL	115	3	10 AWG	0.324	0.60	0.66	1.64	1200	12	135	145		
Q5Q420A	1/0 AWG AL	115	3	10 AWG	0.364	0.64	0.70	1.78	1429	13	150	170		
Q5R420A	2/0 AWG AL	115	3	8 AWG	0.408	0.69	0.74	1.88	1645	14	170	190		
Q5S420A	3/0 AWG AL	115	3	8 AWG	0.458	0.74	0.79	1.99	1834	14	195	220		
Q5T420A	4/0 AWG AL	115	3	8 AWG	0.515	0.79	0.85	2.11	2066	15	220	255		
Q5U420A	250 MCM AL	115	3	8 AWG	0.561	0.85	0.90	2.22	2273	16	245	280		
Q5V420A	350 MCM AL	115	3	7 AWG	0.664	0.95	1.00	2.44	2797	18	295	345		
Q5W420A	500 MCM AL	115	3	6 AWG	0.794	1.08	1.15	2.76	3595	20	355	425		
Q5X420A	750 MCM AL	115	3	5 AWG	0.974	1.27	1.34	3.22	4955	23	440	540		
Q5Y420A	1000 MCM AL	115	3	4 AWG	1.124	1.42	1.49	3.55	6103	25	510	635		
<b>8kV 133% Aluminum Three Conductor</b>														
Q6M420A	2 AWG AL	140	3	10 AWG	0.284	0.61	0.67	1.66	1204	12	115	125		
Q6O420A	1 AWG AL	140	3	10 AWG	0.324	0.65	0.71	1.80	1413	13	135	145		
Q6Q420A	1/0 AWG AL	140	3	10 AWG	0.364	0.69	0.75	1.89	1553	14	150	170		
Q6R420A	2/0 AWG AL	140	3	8 AWG	0.408	0.74	0.79	1.99	1774	14	170	190		
Q6S420A	3/0 AWG AL	140	3	8 AWG	0.458	0.79	0.84	2.09	1969	15	195	220		
Q6T420A	4/0 AWG AL	140	3	8 AWG	0.515	0.84	0.90	2.22	2208	16	220	255		
Q6U420A	250 MCM AL	140	3	8 AWG	0.561	0.90	0.95	2.33	2421	17	245	280		
Q6V420A	350 MCM AL	140	3	7 AWG	0.664	1.00	1.05	2.55	2957	18	295	345		
Q6W420A	500 MCM AL	140	3	6 AWG	0.794	1.13	1.20	2.93	3936	21	355	425		
Q6X420A	750 MCM AL	140	3	5 AWG	0.974	1.32	1.39	3.33	5161	24	440	540		
Q6Y420A	1000 MCM AL	140	3	4 AWG	1.124	1.47	1.54	3.66	6327	26	510	635		

†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**

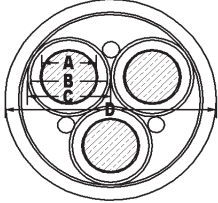
In Duct (2011 NEC Table 310.15(B)(80)): Three-conductor cable in plastic duct, direct-buried, 90°C conductor temperature, 20°C ambient temperature, earth RHO of 90°C-cm/Watt, and 100% load factor, and shields short-circuited.

Isolated in Air (2011 NEC Table 310.15(B)(72)): Three-conductor cable, 90°C conductor temperature, and 40°C ambient temperature, and shields grounded at one point only.

In Cable Tray: Per 2011 NEC 392.80(B)(1)(b), 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 2011 NEC Table 310.15(B)(72) (Aluminum), "Isolated in Air" values noted above.

# 15kV 3/C TRXLPE MV-90 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)	90°C In Duct		90°C In Air	
											No.	Size	(A)	(B)
<b>15kV 100% Copper Three Conductor</b>														
Q74420A	2 AWG CU	175	3	10 AWG	0.284	0.68	0.74	1.87	1888	14	150	165		
Q76420A	1 AWG CU	175	3	8 AWG	0.324	0.72	0.78	1.96	2179	14	170	185		
Q78420A	1/0 AWG CU	175	3	8 AWG	0.364	0.76	0.82	2.04	2466	15	195	215		
Q79420A	2/0 AWG CU	175	3	8 AWG	0.408	0.81	0.86	2.14	2813	15	220	245		
Q7A420A	3/0 AWG CU	175	3	7 AWG	0.458	0.86	0.91	2.24	3275	16	250	285		
Q7B420A	4/0 AWG CU	175	3	7 AWG	0.515	0.91	0.97	2.37	3803	17	285	325		
Q7C420A	250 MCM CU	175	3	7 AWG	0.561	0.97	1.02	2.48	4268	18	310	360		
Q7D420A	350 MCM CU	175	3	6 AWG	0.664	1.07	1.14	2.74	5529	20	375	435		
Q7E420A	500 MCM CU	175	3	5 AWG	0.794	1.20	1.27	3.08	7447	22	450	535		
Q7F420A	750 MCM CU	175	3	4 AWG	0.974	1.39	1.46	3.48	10333	25	545	670		
Q7G420A	1000 MCM CU	175	3	4 AWG	1.124	1.54	1.62	3.84	13138	27	615	770		
<b>15kV 133% Copper Three Conductor</b>														
Q84420A	2 AWG CU	220	3	10 AWG	0.284	0.77	0.83	2.06	2124	15	150	165		
Q86420A	1 AWG CU	220	3	8 AWG	0.324	0.81	0.87	2.15	2424	16	170	185		
Q88420A	1/0 AWG CU	220	3	8 AWG	0.364	0.85	0.91	2.24	2719	16	195	215		
Q89420A	2/0 AWG CU	220	3	8 AWG	0.408	0.90	0.95	2.33	3075	17	220	245		
Q8A420A	3/0 AWG CU	220	3	7 AWG	0.458	0.95	1.00	2.44	3548	18	250	285		
Q8B420A	4/0 AWG CU	220	3	7 AWG	0.515	1.00	1.06	2.56	4088	18	285	325		
Q8C420A	250 MCM CU	220	3	7 AWG	0.561	1.06	1.13	2.71	4627	19	310	360		
Q8D420A	350 MCM CU	220	3	6 AWG	0.664	1.16	1.23	2.99	6018	21	375	435		
Q8E420A	500 MCM CU	220	3	5 AWG	0.794	1.29	1.36	3.27	7808	23	450	535		
Q8F420A	750 MCM CU	220	3	4 AWG	0.974	1.48	1.55	3.68	10733	26	545	670		
Q8G420A	1000 MCM CU	220	3	4 AWG	1.124	1.63	1.71	4.04	13574	29	615	770		

†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**

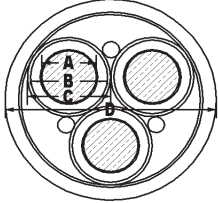
In Duct (2011 NEC Table 310.15(B)(79): Three-conductor cable in plastic duct, direct-buried, 90°C conductor temperature, 20°C ambient temperature, earth RHO of 90°C-cm/Watt, and 100% load factor, and shields short-circuited.

Isolated in Air (2011 NEC Table 310.15(B)(71): Three-conductor cable, 90°C conductor temperature, and 40°C ambient temperature, and shields grounded at one point only.

In Cable Tray: Per 2011 NEC 392.80(B)(1)(b), 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 2011 NEC Table 310.15(B)(71) (Copper), "Isolated in Air" values noted above.

# 15kV 3/C TRXLPE MV-90 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)	90°C In Duct		90°C In Air	
											No.	Size	(A)	(B)
<b>15kV 100% Aluminum Three Conductor</b>														
Q7M420A	2 AWG AL	175	3	10 AWG	0.284	0.68	0.74	1.87	1469	14	115	125		
Q7O420A	1 AWG AL	175	3	10 AWG	0.324	0.72	0.78	1.96	1590	14	135	145		
Q7Q420A	1/0 AWG AL	175	3	10 AWG	0.364	0.76	0.82	2.04	1736	15	150	170		
Q7R420A	2/0 AWG AL	175	3	8 AWG	0.408	0.81	0.86	2.14	1965	15	170	190		
Q7S420A	3/0 AWG AL	175	3	8 AWG	0.458	0.86	0.91	2.24	2168	16	195	220		
Q7T420A	4/0 AWG AL	175	3	8 AWG	0.515	0.91	0.97	2.37	2416	17	220	255		
Q7U420A	250 MCM AL	175	3	8 AWG	0.561	0.97	1.02	2.48	2638	18	245	280		
Q7V420A	350 MCM AL	175	3	7 AWG	0.664	1.07	1.14	2.74	3254	20	295	345		
Q7W420A	500 MCM AL	175	3	6 AWG	0.794	1.20	1.27	3.08	4203	22	355	425		
Q7X420A	750 MCM AL	175	3	5 AWG	0.974	1.39	1.46	3.48	5459	25	440	540		
Q7Y420A	1000 MCM AL	175	3	4 AWG	1.124	1.54	1.62	3.84	6737	27	510	635		
<b>15kV 133% Aluminum Three Conductor</b>														
Q8M420A	2 AWG AL	220	3	10 AWG	0.284	0.77	0.83	2.06	1705	15	115	125		
Q8O420A	1 AWG AL	220	3	10 AWG	0.324	0.81	0.87	2.15	1834	16	135	145		
Q8Q420A	1/0 AWG AL	220	3	10 AWG	0.364	0.85	0.91	2.24	1989	16	150	170		
Q8R420A	2/0 AWG AL	220	3	8 AWG	0.408	0.90	0.95	2.33	2227	17	170	190		
Q8S420A	3/0 AWG AL	220	3	8 AWG	0.458	0.95	1.00	2.44	2441	18	195	220		
Q8T420A	4/0 AWG AL	220	3	8 AWG	0.515	1.00	1.06	2.56	2701	18	220	255		
Q8U420A	250 MCM AL	220	3	8 AWG	0.561	1.06	1.13	2.71	2997	19	245	280		
Q8V420A	350 MCM AL	220	3	7 AWG	0.664	1.16	1.23	2.99	3743	21	295	345		
Q8W420A	500 MCM AL	220	3	6 AWG	0.794	1.29	1.36	3.27	4564	23	355	425		
Q8X420A	750 MCM AL	220	3	5 AWG	0.974	1.48	1.55	3.68	5859	26	440	540		
Q8Y420A	1000 MCM AL	220	3	4 AWG	1.124	1.63	1.71	4.04	7173	29	510	635		

† 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 (2011 NEC Table 310.15(B)(80)): Three-conductor cable in plastic duct, direct-buried, 90°C conductor temperature, 20°C ambient temperature, earth RHO of 90°C-cm/Watt, and 100% load factor, and shields short-circuited.

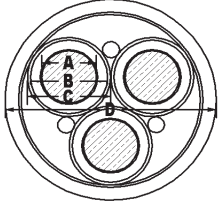
Isolated in Air (2011 NEC Table 310.15(B)(72)): Three-conductor cable, 90°C conductor temperature, and 40°C ambient temperature, and shields grounded at one point only.

In Cable Tray: Per 2011 NEC 392.80(B)(1)(b), 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 2011 NEC Table 310.15(B)(72) (Aluminum), "Isolated in Air" values noted above.



## 25kV 3/C TRXLPE MV-90 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)	90°C In Duct		90°C In Air	
											No.	Size	(A)	(B)
<b>25kV 100% Copper Three Conductor</b>														
Q96420A	1 AWG CU	260	3	8 AWG	0.324	0.89	0.95	2.32	2657	17	170	185		
Q98420A	1/0 AWG CU	260	3	8 AWG	0.364	0.93	0.99	2.41	2960	17	195	215		
Q99420A	2/0 AWG CU	260	3	8 AWG	0.408	0.98	1.03	2.50	3324	18	220	245		
Q9A420A	3/0 AWG CU	260	3	7 AWG	0.458	1.03	1.10	2.65	3868	19	250	285		
Q9B420A	4/0 AWG CU	260	3	7 AWG	0.515	1.08	1.16	2.77	4421	20	285	325		
Q9C420A	250 MCM CU	260	3	7 AWG	0.561	1.14	1.21	2.94	5073	21	310	360		
Q9D420A	350 MCM CU	260	3	6 AWG	0.664	1.24	1.31	3.16	6330	23	375	435		
Q9E420A	500 MCM CU	260	3	5 AWG	0.794	1.37	1.44	3.45	8144	25	450	535		
Q9F420A	750 MCM CU	260	3	4 AWG	0.974	1.56	1.64	3.89	11193	28	545	670		
Q9G420A	1000 MCM CU	260	3	4 AWG	1.124	1.71	1.79	4.21	13978	30	615	770		
<b>25kV 133% Copper Three Conductor</b>														
QB8420A	1/0 AWG CU	345	3	8 AWG	0.364	1.11	1.18	2.88	3761	21	195	215		
QB9420A	2/0 AWG CU	345	3	8 AWG	0.408	1.15	1.22	2.97	4151	21	220	245		
QBA420A	3/0 AWG CU	345	3	7 AWG	0.458	1.20	1.27	3.08	4662	22	250	285		
QBB420A	4/0 AWG CU	345	3	7 AWG	0.515	1.26	1.33	3.21	5245	23	285	325		
QBC420A	250 MCM CU	345	3	7 AWG	0.561	1.31	1.38	3.32	5762	24	310	360		
QBD420A	350 MCM CU	345	3	6 AWG	0.664	1.41	1.48	3.54	7060	25	375	435		
QBE420A	500 MCM CU	345	3	5 AWG	0.794	1.54	1.63	3.86	9015	27	450	535		

†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 (2011 NEC Table 310.15(B)(79): Three-conductor cable in plastic duct, direct-buried, 90°C conductor temperature, 20°C ambient temperature, earth RHO of 90°C-cm/Watt, and 100% load factor, and shields short-circuited.

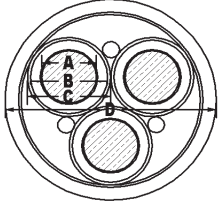
Isolated in Air (2011 NEC Table 310.15(B)(71): Three-conductor cable, 90°C conductor temperature, and 40°C ambient temperature, and shields grounded at one point only.

In Cable Tray: Per 2011 NEC 392.80(B)(1)(b), 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 2011 NEC Table 310.15(B)(71) (Copper), "Isolated in Air" values noted above.



# 25kV 3/C TRXLPE MV-90 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/1k ft)	Minimum Bending Radius (in)	† Ampacity (Amps)	Ampacity	
											90°C In Duct	90°C In Air
<b>25kV 100% Aluminum Three Conductor</b>												
Q90420A	1 AWG AL	260	3	10 AWG	0.324	0.89	0.95	2.32	2068	17	135	145
Q9Q420A	1/0 AWG AL	260	3	10 AWG	0.364	0.93	0.99	2.41	2230	17	150	170
Q9R420A	2/0 AWG AL	260	3	8 AWG	0.408	0.98	1.03	2.50	2476	18	170	190
Q9S420A	3/0 AWG AL	260	3	8 AWG	0.458	1.03	1.10	2.65	2761	19	195	220
Q9T420A	4/0 AWG AL	260	3	8 AWG	0.515	1.08	1.16	2.77	3034	20	220	255
Q9U420A	250 MCM AL	260	3	8 AWG	0.561	1.14	1.21	2.94	3444	21	245	280
Q9V420A	350 MCM AL	260	3	7 AWG	0.664	1.24	1.31	3.16	4055	23	295	345
Q9W420A	500 MCM AL	260	3	6 AWG	0.794	1.37	1.44	3.45	4900	25	355	425
Q9X420A	750 MCM AL	260	3	5 AWG	0.974	1.56	1.64	3.89	6319	28	440	540
Q9Y420A	1000 MCM AL	260	3	4 AWG	1.124	1.71	1.79	4.21	7577	30	510	635
<b>25kV 133% Aluminum Three Conductor</b>												
QBQ420A	1/0 AWG AL	345	3	10 AWG	0.364	1.11	1.18	2.88	3031	21	150	170
QBR420A	2/0 AWG AL	345	3	8 AWG	0.408	1.15	1.22	2.97	3303	21	170	190
QBS420A	3/0 AWG AL	345	3	8 AWG	0.458	1.20	1.27	3.08	3555	22	195	220
QBT420A	4/0 AWG AL	345	3	8 AWG	0.515	1.26	1.33	3.21	3859	23	220	255
QBU420A	250 MCM AL	345	3	8 AWG	0.561	1.31	1.38	3.32	4132	24	245	280
QBV420A	350 MCM AL	345	3	7 AWG	0.664	1.41	1.48	3.54	4785	25	295	345
QBW420A	500 MCM AL	345	3	6 AWG	0.794	1.54	1.63	3.86	5771	27	355	425

†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**

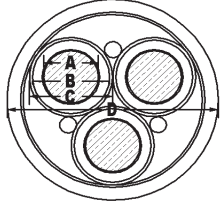
**In Duct (2011 NEC Table 310.15(B)(80)):** Three-conductor cable in plastic duct, direct-buried, 90°C conductor temperature, 20°C ambient temperature, earth RHO of 90°C-cm/Watt, and 100% load factor, and shields short-circuited.

**Isolated in Air (2011 NEC Table 310.15(B)(72)):** Three-conductor cable, 90°C conductor temperature, and 40°C ambient temperature, and shields grounded at one point only.

**In Cable Tray:** Per 2011 NEC 392.80(B)(1)(b), 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 2011 NEC Table 310.15(B)(72) (Aluminum), "Isolated in Air" values noted above.

# 35kV 3/C TRXLPE MV-90 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)	
		No.	Size	(A)	(B)	(C)	(D)							90°C In Duct	90°C In Air				
<b>35kV 100% Copper Three Conductor</b>																			
QB8420A	1/0 AWG CU	345	3	8 AWG	0.364	1.11	1.18	2.88	3761	21	195	215							
QB9420A	2/0 AWG CU	345	3	8 AWG	0.408	1.15	1.22	2.97	4151	21	220	245							
QBA420A	3/0 AWG CU	345	3	7 AWG	0.458	1.20	1.27	3.08	4662	22	250	285							
QBB420A	4/0 AWG CU	345	3	7 AWG	0.515	1.26	1.33	3.21	5245	23	285	325							
QBC420A	250 MCM CU	345	3	7 AWG	0.561	1.31	1.38	3.32	5762	24	310	360							
QBD420A	350 MCM CU	345	3	6 AWG	0.664	1.41	1.48	3.54	7060	25	375	435							
QBE420A	500 MCM CU	345	3	5 AWG	0.794	1.54	1.63	3.86	9015	27	450	535							
<b>35kV 133% Copper Three Conductor</b>																			
QC8420A	1/0 AWG CU	420	3	8 AWG	0.364	1.26	1.33	3.21	4356	23	195	215							
QC9420A	2/0 AWG CU	420	3	8 AWG	0.408	1.30	1.38	3.31	4761	24	220	245							
QCA420A	3/0 AWG CU	420	3	7 AWG	0.458	1.35	1.43	3.41	5291	24	250	285							
QCB420A	4/0 AWG CU	420	3	7 AWG	0.515	1.41	1.48	3.54	5895	25	285	325							
QCC420A	250 MCM CU	420	3	7 AWG	0.561	1.46	1.54	3.65	6430	26	310	360							
QCD420A	350 MCM CU	420	3	6 AWG	0.664	1.57	1.65	3.91	7854	28	375	435							
QCE420A	500 MCM CU	420	3	5 AWG	0.794	1.70	1.78	4.19	9775	30	450	535							

†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**

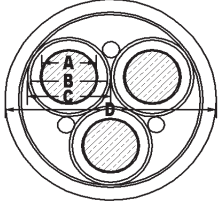
In Duct (2011 NEC Table 310.15(B)(79): Three-conductor cable in plastic duct, direct-buried, 90°C conductor temperature, 20°C ambient temperature, earth RHO of 90°C-cm/Watt, and 100% load factor, and shields short-circuited.

Isolated in Air (2011 NEC Table 310.15(B)(71): Three-conductor cable, 90°C conductor temperature, and 40°C ambient temperature, and shields grounded at one point only.

In Cable Tray: Per 2011 NEC 392.80(B)(1)(b), 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 2011 NEC Table 310.15(B)(71) (Copper), "Isolated in Air" values noted above.

# 35kV 3/C TRXLPE MV-90 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)	90°C In Duct		90°C In Air	
											No.	Size	(A)	(B)
<b>35kV 100% Aluminum Three Conductor</b>														
QBQ420A	1/0 AWG AL	345	3	10 AWG	0.364	1.11	1.18	2.88	3031	21	150	170		
QBR420A	2/0 AWG AL	345	3	8 AWG	0.408	1.15	1.22	2.97	3303	21	170	190		
QBS420A	3/0 AWG AL	345	3	8 AWG	0.458	1.20	1.27	3.08	3555	22	195	220		
QBT420A	4/0 AWG AL	345	3	8 AWG	0.515	1.26	1.33	3.21	3859	23	220	255		
QBU420A	250 MCM AL	345	3	8 AWG	0.561	1.31	1.38	3.32	4132	24	245	280		
QBV420A	350 MCM AL	345	3	7 AWG	0.664	1.41	1.48	3.54	4785	25	295	345		
QBW420A	500 MCM AL	345	3	6 AWG	0.794	1.54	1.63	3.86	5771	27	355	425		
<b>35kV 133% Aluminum Three Conductor</b>														
QCQ420A	1/0 AWG AL	420	3	10 AWG	0.364	1.26	1.33	3.21	3626	23	150	170		
QCR420A	2/0 AWG AL	420	3	8 AWG	0.408	1.30	1.38	3.31	3914	24	170	190		
QCS420A	3/0 AWG AL	420	3	8 AWG	0.458	1.35	1.43	3.41	4184	24	195	220		
QCT420A	4/0 AWG AL	420	3	8 AWG	0.515	1.41	1.48	3.54	4509	25	220	255		
QCU420A	250 MCM AL	420	3	8 AWG	0.561	1.46	1.54	3.65	4800	26	245	280		
QCV420A	350 MCM AL	420	3	7 AWG	0.664	1.57	1.65	3.91	5580	28	295	345		
QCW420A	500 MCM AL	420	3	6 AWG	0.794	1.70	1.78	4.19	6531	30	355	425		

†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 (2011 NEC Table 310.15(B)(80)): Three-conductor cable in plastic duct, direct-buried, 90°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 (2011 NEC Table 310.15(B)(72)): Three-conductor cable, 90°C conductor temperature, and 40°C ambient temperature, and shields grounded at one point only.

In Cable Tray: Per 2011 NEC 392.80(B)(1)(b), 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 2011 NEC Table 310.15(B)(72) (Aluminum), "Isolated in Air" values noted above.