

5-35kV 1/C TRXLE MV-90 POWER (wire shield)

Medium Voltage Commercial & Industrial Cables



Description

Single conductor cable with stranded copper or aluminum conductor, triple extruded insulation system consisting of a thermosetting semiconducting conductor shield, high dielectric strength VOLTALENE™ TRXLPE insulation, thermosetting semiconducting insulation shield, helically applied drain wires, separator tape, and black PVC jacket.

Specifications

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

Ratings

Type MV-90
 Sunlight Resistant

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

Options

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

Installation



Conduit in Air



Direct Buried



Underground Duct



Isolated in Air



With Messenger



Wet Locations



Dry Locations



Industrial

Design Parameters

CONDUCTOR: Class B Compressed concentric strand aluminum alloy 1350 or 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.

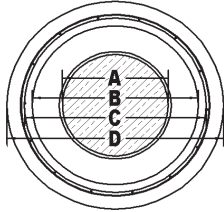
METALLIC SHIELD: Non-magnetic bare copper drain wire shield evenly spaced comprising of 5000 circular mils minimum per inch of calculated core diameter. This system insures a reliable metallic shield that is easily terminated.

SEPARATOR TAPE: Moisture resistant helically applied separator tape insuring easy removal of the jacket.

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

5kV 1/C TRXLPE MV-90 POWER (wire shield)

100/133% Medium Voltage Commercial & Industrial Cables



Product Number	Conductor	Insulation Thickness (mils)	Conductor Diameter (in)	Insulation Diameter (in)	Insulation Shield Diameter (in)	Jacket Diameter (in)	Cable Weight (lbs./kft)	Minimum Bending Radius (in)	† Ampacity (Amps)	
									90°C In Duct	90°C In Air
5kV 100% Copper One Conductor										
Q42400A	4 AWG CU	90	0.226	0.45	0.51	0.69	289	9	110	145
Q44400A	2 AWG CU	90	0.284	0.51	0.57	0.74	385	9	145	190
Q46400A	1 AWG CU	90	0.324	0.55	0.61	0.78	450	10	170	225
Q48400A	1/0 AWG CU	90	0.364	0.59	0.65	0.82	532	10	195	260
Q49400A	2/0 AWG CU	90	0.408	0.64	0.69	0.91	665	11	220	300
Q4A400A	3/0 AWG CU	90	0.458	0.69	0.74	0.97	792	12	250	345
Q4B400A	4/0 AWG CU	90	0.515	0.74	0.80	1.02	947	13	290	400
Q4C400A	250 MCM CU	90	0.561	0.80	0.85	1.07	1084	13	320	445
Q4D400A	35 MCM CU	90	0.664	0.90	0.95	1.17	1431	15	385	550
Q4E400A	500 MCM CU	90	0.794	1.03	1.10	1.32	1958	16	470	695
Q4F400A	750 MCM CU	90	0.974	1.22	1.29	1.52	2814	19	585	900
Q4G400A	1000 MCM CU	90	1.124	1.37	1.44	1.67	3647	20	670	1075
5kV 133% Copper One Conductor										
Q52400A	4 AWG CU	115	0.226	0.50	0.56	0.74	312	9	110	145
Q54400A	2 AWG CU	115	0.284	0.56	0.62	0.79	411	10	145	190
Q56400A	1 AWG CU	115	0.324	0.60	0.66	0.83	478	11	170	225
Q58400A	1/0 AWG CU	115	0.364	0.64	0.70	0.91	594	11	195	260
Q59400A	2/0 AWG CU	115	0.408	0.69	0.74	0.97	698	12	220	300
Q5A400A	3/0 AWG CU	115	0.458	0.74	0.79	1.01	824	13	250	345
Q5B400A	4/0 AWG CU	115	0.515	0.79	0.85	1.07	982	13	290	400
Q5C400A	250 MCM CU	115	0.561	0.85	0.90	1.12	1122	14	320	445
Q5D400A	350 MCM CU	115	0.664	0.95	1.00	1.23	1473	15	385	550
Q5E400A	500 MCM CU	115	0.794	1.08	1.15	1.38	2005	17	470	695
Q5F400A	750 MCM CU	115	0.974	1.27	1.34	1.57	2864	19	585	900
Q5G400A	1000 MCM CU	115	1.124	1.42	1.49	1.78	3800	22	670	1075

†Ampacities are based on the following:

PRODUCT NOTES:

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

Three Phase Operation

In Duct 2011 NEC Table 310.60(C)(77): Three single cables in plastic duct, direct-buried, 90°C conductor temperature, 20°C ambient temperature, earth RHO of 90°C-cm/Watt, 100% load factor, and shields short-circuited.

Isolated in Air (2011 NEC Table 310.60(C)(69): Single conductor cable, 90°C conductor temperature, 40°C ambient temperature, and shields grounded at one point only.

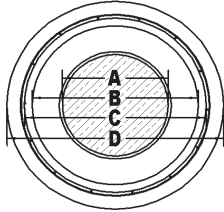
In Cable Tray: per 2011 NEC 392.80(B)(2)(b), for single conductor cables, sizes 1/0 AWG and larger, installed in a single layer in an uncovered cable tray, with a maintained space of not less than one cable diameter between individual conductors, the ampacities shall not exceed the allowable ampacities stated in 2011 NEC Table 310.60(C)(69) (Copper), "Isolated in Air" values noted above.

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5kV 1/C TRXLPE MV-90 POWER (wire shield)

100/133% Medium Voltage Commercial & Industrial Cables



Product Number	Conductor	Insulation Thickness (mils)	Conductor Diameter (in)	Insulation Diameter (in)	Insulation Shield Diameter (in)	Jacket Diameter (in)	Cable Weight (lbs./kft)	Minimum Bending Radius (in)	† Ampacity (Amps)	
									90°C In Duct	90°C In Air
5kV 100% Aluminum One Conductor										
Q4K400A	4 AWG AL	90	0.226	0.45	0.51	0.69	201	9	86	115
Q4M400A	2 AWG AL	90	0.284	0.51	0.57	0.74	246	9	115	150
Q4O400A	1 AWG AL	90	0.324	0.55	0.61	0.78	273	10	130	175
Q4Q400A	1/0 AWG AL	90	0.364	0.59	0.65	0.82	309	10	150	200
Q4R400A	2/0 AWG AL	90	0.408	0.64	0.69	0.91	384	11	170	230
Q4S400A	3/0 AWG AL	90	0.458	0.69	0.74	0.97	438	12	195	270
Q4T400A	4/0 AWG AL	90	0.515	0.74	0.80	1.02	500	13	225	310
Q4U400A	250 MCM AL	90	0.561	0.80	0.85	1.07	557	13	250	345
Q4V400A	350 MCM AL	90	0.664	0.90	0.95	1.17	693	15	305	430
Q4W400A	500 MCM AL	90	0.794	1.03	1.10	1.32	904	16	370	545
Q4X400A	750 MCM AL	90	0.974	1.22	1.29	1.52	1224	19	470	710
Q4Y400A	1000 MCM AL	90	1.124	1.37	1.44	1.67	1524	20	545	855
5kV 133% Aluminum One Conductor										
Q5K400A	4 AWG AL	115	0.226	0.50	0.56	0.74	225	9	86	115
Q5M400A	2 AWG AL	115	0.284	0.56	0.62	0.79	272	10	115	150
Q5O400A	1 AWG AL	115	0.324	0.60	0.66	0.83	301	11	130	175
Q5Q400A	1/0 AWG AL	115	0.364	0.64	0.70	0.91	371	11	150	200
Q5R400A	2/0 AWG AL	115	0.408	0.69	0.74	0.97	417	12	170	230
Q5S400A	3/0 AWG AL	115	0.458	0.74	0.79	1.01	469	13	195	270
Q5T400A	4/0 AWG AL	115	0.515	0.79	0.85	1.07	536	13	225	310
Q5U400A	250 MCM AL	115	0.561	0.85	0.90	1.12	594	14	250	345
Q5V400A	350 MCM AL	115	0.664	0.95	1.00	1.23	735	15	305	430
Q5W400A	500 MCM AL	115	0.794	1.08	1.15	1.38	950	17	370	545
Q5X400A	750 MCM AL	115	0.974	1.27	1.34	1.57	1274	19	470	710
Q5Y400A	1000 MCM AL	115	1.124	1.42	1.49	1.78	1677	22	545	855

†Ampacities are based on the following:

PRODUCT NOTES:

⁵ Items are Prysmian authorized stock.

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

Three Phase Operation

In Duct (2011 NEC Table 310.60(C)(78): Three single cables in plastic duct, direct-buried, 90°C conductor temperature, 20°C ambient temperature, earth RHO of 90°C-cm/Watt, 100% load factor, and shields short-circuited.

Isolated in Air (2011 NEC Table 310.60(C)(70): Single conductor cable, 90°C conductor temperature, 40°C ambient temperature, and shields grounded at one point only.

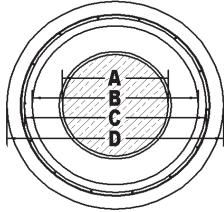
In Cable Tray: per 2011 NEC 392.80(B)(2)(b), for single conductor cables, sizes 1/0 AWG and larger, installed in a single layer in an uncovered cable tray, with a maintained space of not less than one cable diameter between individual conductors, the ampacities shall not exceed the allowable ampacities stated in 2011 NEC Table 310.60(C)(70) (Aluminum), "Isolated in Air" values noted above.

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8kV 1/C TRXLPE MV-905 POWER (wire shield)

100/133% Medium Voltage Commercial & Industrial Cables



Product Number	Conductor	Insulation Thickness (mils)	Conductor Diameter (in)	Insulation Diameter (in)	Insulation Shield Diameter (in)	Jacket Diameter (in)	Cable Weight (lbs./kft)	Minimum Bending Radius (in)	† Ampacity (Amps)	
									90°C In Duct	90°C In Air
8kV 100% Copper One Conductor										
Q52400A	4 AWG CU	115	0.226	0.50	0.56	0.74	312	9	115	150
Q54400A	2 AWG CU	115	0.284	0.56	0.62	0.79	411	10	155	195
Q56400A	1 AWG CU	115	0.324	0.60	0.66	0.83	478	11	175	225
Q58400A	1/0 AWG CU	115	0.364	0.64	0.70	0.91	594	11	200	260
Q59400A	2/0 AWG CU	115	0.408	0.69	0.74	0.97	698	12	230	300
Q5A400A	3/0 AWG CU	115	0.458	0.74	0.79	1.01	824	13	260	345
Q5B400A	4/0 AWG CU	115	0.515	0.79	0.85	1.07	982	13	295	400
Q5C400A	250 MCM CU	115	0.561	0.85	0.90	1.12	1122	14	325	445
Q5D400A	350 MCM CU	115	0.664	0.95	1.00	1.23	1473	15	390	550
Q5E400A	500 MCM CU	115	0.794	1.08	1.15	1.38	2005	17	465	685
Q5F400A	750 MCM CU	115	0.974	1.27	1.34	1.57	2864	19	565	885
Q5G400A	1000 MCM CU	115	1.124	1.42	1.49	1.78	3800	22	640	1060
8kV 133% Copper One Conductor										
Q64400A	2 AWG CU	140	0.284	0.61	0.67	0.84	439	11	155	195
Q66400A	1 AWG CU	140	0.324	0.65	0.71	0.92	540	12	175	225
Q68400A	1/0 AWG CU	140	0.364	0.69	0.75	0.98	627	12	200	260
Q69400A	2/0 AWG CU	140	0.408	0.74	0.79	1.01	730	13	230	300
Q6A400A	3/0 AWG CU	140	0.458	0.79	0.84	1.06	859	13	260	345
Q6B400A	4/0 AWG CU	140	0.515	0.84	0.90	1.12	1020	14	295	400
Q6C400A	250 MCM CU	140	0.561	0.90	0.95	1.17	1159	15	325	445
Q6D400A	350 MCM CU	140	0.664	1.00	1.05	1.27	1514	16	390	550
Q6E400A	500 MCM CU	140	0.794	1.13	1.20	1.42	2049	17	465	685
Q6F400A	750 MCM CU	140	0.974	1.32	1.39	1.62	2915	20	565	885
Q6G400A	1000 MCM CU	140	1.124	1.47	1.54	1.84	3863	23	640	1060

†Ampacities are based on the following:

PRODUCT NOTES:

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Three Phase Operation

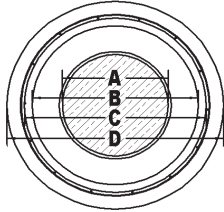
In Duct 2011 NEC Table 310.60(C)(77): Three single cables in plastic duct, direct-buried, 90°C conductor temperature, 20°C ambient temperature, earth RHO of 90°C-cm/Watt, 100% load factor, and shields short-circuited.

Isolated in Air (2011 NEC Table 310.60(C)(69): Single conductor cable, 90°C conductor temperature, 40°C ambient temperature, and shields grounded at one point only.

In Cable Tray: per 2011 NEC 392.80(B)(2)(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 310.60(C)(69) (Copper), "Isolated in Air" values noted above.

8kV 1/C TRXLPE MV-90 POWER (wire shield)

100/133% Medium Voltage Commercial & Industrial Cables



Product Number	Conductor	Insulation Thickness (mils)	Conductor Diameter (in)	Insulation Diameter (in)	Insulation Shield Diameter (in)	Jacket Diameter (in)	Cable Weight (lbs./kft)	Minimum Bending Radius (in)	† Ampacity (Amps)	
									90°C In Duct	90°C In Air
8kV 100% Aluminum One Conductor										
Q5K400A	4 AWG AL	115	0.226	0.50	0.56	0.74	225	9	91	115
Q5M400A	2 AWG AL	115	0.284	0.56	0.62	0.79	272	10	120	150
Q5O400A	1 AWG AL	115	0.324	0.60	0.66	0.83	301	11	135	175
Q5Q400A	1/0 AWG AL	115	0.364	0.64	0.70	0.91	371	11	155	200
Q5R400A	2/0 AWG AL	115	0.408	0.69	0.74	0.97	417	12	175	235
Q5S400A	3/0 AWG AL	115	0.458	0.74	0.79	1.01	469	13	200	270
Q5T400A	4/0 AWG AL	115	0.515	0.79	0.85	1.07	536	13	230	310
Q5U400A	250 MCM AL	115	0.561	0.85	0.90	1.12	594	14	250	345
Q5V400A	350 MCM AL	115	0.664	0.95	1.00	1.23	735	15	305	430
Q5W400A	500 MCM AL	115	0.794	1.08	1.15	1.38	950	17	370	535
Q5X400A	750 MCM AL	115	0.974	1.27	1.34	1.57	1274	19	455	700
Q5Y400A	1000 MCM AL	115	1.124	1.42	1.49	1.78	1677	22	525	840
8kV 133% Aluminum One Conductor										
Q6M400A	2 AWG AL	140	0.284	0.61	0.67	0.84	300	11	120	150
Q6O400A	1 AWG AL	140	0.324	0.65	0.71	0.92	364	12	135	175
Q6Q400A	1/0 AWG AL	140	0.364	0.69	0.75	0.98	405	12	155	200
Q6R400A	2/0 AWG AL	140	0.408	0.74	0.79	1.01	449	13	175	235
Q6S400A	3/0 AWG AL	140	0.458	0.79	0.84	1.06	505	13	200	270
Q6T400A	4/0 AWG AL	140	0.515	0.84	0.90	1.12	573	14	230	310
Q6U400A	250 MCM AL	140	0.561	0.90	0.95	1.17	632	15	250	345
Q6V400A	350 MCM AL	140	0.664	1.00	1.05	1.27	776	16	305	430
Q6W400A	500 MCM AL	140	0.794	1.13	1.20	1.42	995	17	370	535
Q6X400A	750 MCM AL	140	0.974	1.32	1.39	1.62	1325	20	455	70
Q6Y400A	1000 MCM AL	140	1.124	1.47	1.54	1.84	1741	23	525	840

†Ampacities are based on the following:

PRODUCT NOTES:

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

Three Phase Operation

In Duct (2011 NEC Table 310.60(C)(78): Three single cables in plastic duct, direct-buried, 90°C conductor temperature, 20°C ambient temperature, earth RHO of 90°C-cm/Watt, 100% load factor, and shields short-circuited.

Isolated in Air (2011 NEC Table 310.60(C)(70): Single conductor cable, 90°C conductor temperature, 40°C ambient temperature, and shields grounded at one point only.

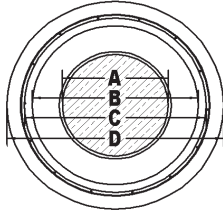
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15kV 1/C TRXLPE MV-90 POWER (wire shield)

100/133% Medium Voltage Commercial & Industrial Cables



Product Number	Conductor	Insulation Thickness (mils)	Conductor Diameter (in)	Insulation Diameter (in)	Insulation Shield Diameter (in)	Jacket Diameter (in)	Cable Weight (lbs./kft)	Minimum Bending Radius (in)	† Ampacity (Amps)	
									90°C In Duct	90°C In Air
15kV 100% Copper One Conductor										
Q74400A	2 AWG CU	175	0.284	0.68	0.74	0.97	517	12	155	195
Q76400A	1 AWG CU	175	0.324	0.72	0.78	0.99	586	12	175	225
Q78400A	1/0 AWG CU	175	0.364	0.76	0.82	1.03	674	13	200	260
Q79400A	2/0 AWG CU	175	0.408	0.81	0.86	1.08	779	13	230	300
Q7A400A	3/0 AWG CU	175	0.458	0.86	0.91	1.13	911	14	260	345
Q7B400A	4/0 AWG CU	175	0.515	0.91	0.97	1.19	1073	15	295	400
Q7C400A	250 MCM CU	175	0.561	0.97	1.02	1.25	1218	15	325	445
Q7D400A	350 MCM CU	175	0.664	1.07	1.14	1.37	1592	17	390	550
Q7E400A	500 MCM CU	175	0.794	1.20	1.27	1.50	2119	18	465	68
Q7F400A	750 MCM CU	175	0.974	1.39	1.46	1.69	2992	21	565	885
Q7G400A	1000 MCM CU	175	1.124	1.54	1.62	1.92	3972	24	640	1060
15kV 133% Copper One Conductor										
[§] Q84400A	2 AWG CU	220	0.284	0.77	0.83	1.04	577	13	155	195
Q86400A	1 AWG CU	220	0.324	0.81	0.87	1.08	649	14	175	225
[§] Q88400A	1/0 AWG CU	220	0.364	0.85	0.91	1.12	740	14	200	260
[§] Q89400A	2/0 AWG CU	220	0.408	0.90	0.95	1.17	848	15	230	300
Q8A400A	3/0 AWG CU	220	0.458	0.95	1.00	1.23	983	15	260	345
[§] Q8B400A	4/0 AWG CU	220	0.515	1.00	1.06	1.28	1148	16	295	400
Q8C400A	250 MCM CU	220	0.561	1.06	1.13	1.34	1310	17	325	445
Q8D400A	350 MCM CU	220	0.664	1.16	1.23	1.46	1677	18	390	550
Q8E400A	500 MCM CU	220	0.794	1.29	1.36	1.59	2211	20	465	685
Q8F400A	750 MCM CU	220	0.974	1.48	1.55	1.85	3199	23	565	885
Q8G400A	1000 MCM CU	220	1.124	1.63	1.71	2.00	4087	25	640	1060

† Ampacities are based on the following:

PRODUCT NOTES:

[§] Items are Prysmian authorized stock.
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Three Phase Operation

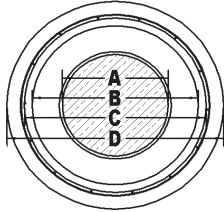
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Isolated in Air (2011 NEC Table 310.60(C)(69): Single conductor cable, 90°C conductor temperature, 40°C ambient temperature, and shields grounded at one point only.

In Cable Tray: per 2011 NEC 392.80(B)(2)(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 310.60(C)(69) (Copper), "Isolated in Air" values noted above.

15kV 1/C TRXLPE MV-90 POWER (wire shield)

100/133% Medium Voltage Commercial & Industrial Cables



Product Number	Conductor	Insulation Thickness (mils)	Conductor Diameter (in)	Insulation Diameter (in)	Insulation Shield Diameter (in)	Jacket Diameter (in)	Cable Weight (lbs./kft)	Minimum Bending Radius (in)	† Ampacity (Amps)	
									90°C In Duct	90°C In Air
15kV 100% Aluminum One Conductor										
Q7M400A	2 AWG AL	175	0.284	0.68	0.74	0.97	378	12	120	150
Q7O400A	1 AWG AL	175	0.324	0.72	0.78	0.99	410	12	135	175
Q7Q400A	1/0 AWG AL	175	0.364	0.76	0.82	1.03	451	13	155	200
Q7R400A	2/0 AWG AL	175	0.408	0.81	0.86	1.08	498	13	175	235
Q7S400A	3/0 AWG AL	175	0.458	0.86	0.91	1.13	557	14	200	270
Q7T400A	4/0 AWG AL	175	0.515	0.91	0.97	1.19	626	15	230	310
Q7U400A	250 MCM AL	175	0.561	0.97	1.02	1.25	690	15	250	345
Q7V400A	350 MCM AL	175	0.664	1.07	1.14	1.37	854	17	305	430
Q7W400A	500 MCM AL	175	0.794	1.20	1.27	1.50	1064	18	370	535
Q7X400A	750 MCM AL	175	0.974	1.39	1.46	1.69	1402	21	455	700
Q7Y400A	1000 MCM AL	175	1.124	1.54	1.62	1.92	1850	24	525	840
15kV 133% Aluminum One Conductor										
Q8M400A	2 AWG AL	220	0.284	0.77	0.83	1.04	438	13	120	150
Q8O400A	1 AWG AL	220	0.324	0.81	0.87	1.08	473	14	135	175
Q8Q400A	1/0 AWG AL	220	0.364	0.85	0.91	1.12	517	14	155	200
Q8R400A	2/0 AWG AL	220	0.408	0.90	0.95	1.17	567	15	175	235
Q8S400A	3/0 AWG AL	220	0.458	0.95	1.00	1.23	629	15	200	270
Q8T400A	4/0 AWG AL	220	0.515	1.00	1.06	1.28	702	16	230	310
Q8U400A	250 MCM AL	220	0.561	1.06	1.13	1.34	782	17	250	345
Q8V400A	350 MCM AL	220	0.664	1.16	1.23	1.46	939	18	305	430
Q8W400A	500 MCM AL	220	0.794	1.29	1.36	1.59	1156	20	370	535
Q8X400A	750 MCM AL	220	0.974	1.48	1.55	1.85	1609	23	455	700
Q8Y400A	1000 MCM AL	220	1.124	1.63	1.71	2.00	1965	25	525	840

†Ampacities are based on the following:

PRODUCT NOTES:

⁵ Items are Prysmian authorized stock.

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

Three Phase Operation

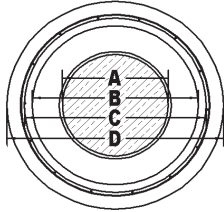
In Duct (2011 NEC Table 310.60(C)(78): Three single cables in plastic duct, direct-buried, 90°C conductor temperature, 20°C ambient temperature, earth RHO of 90°C-cm/Watt, 100% load factor, and shields short-circuited.

Isolated in Air (2011 NEC Table 310.60(C)(70): Single conductor cable, 90°C conductor temperature, 40°C ambient temperature, and shields grounded at one point only.

In Cable Tray: per 2011 NEC 392.80(B)(2)(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 310.60(C)(70) (Aluminum), "Isolated in Air" values noted above.

25kV 1/C TRXLPE MV-90 POWER (wire shield)

100/133% Medium Voltage Commercial & Industrial Cables



Product Number	Conductor	Insulation Thickness (mils)	Conductor Diameter (in)	Insulation Diameter (in)	Insulation Shield Diameter (in)	Jacket Diameter (in)	Cable Weight (lbs./kft)	Minimum Bending Radius (in)	† Ampacity (Amps)	
									90°C In Duct	90°C In Air
25kV 100% Copper One Conductor										
Q96400A	1 AWG CU	260	0.324	0.89	0.95	1.16	710	14	175	225
Q98400A	1/0 AWG CU	260	0.364	0.93	0.99	1.22	804	15	200	260
Q99400A	2/0 AWG CU	260	0.408	0.98	1.03	1.25	912	15	230	300
Q9A400A	3/0 AWG CU	260	0.458	1.03	1.10	1.31	1066	16	260	345
Q9B400A	4/0 AWG CU	260	0.515	1.08	1.16	1.37	1236	17	295	395
Q9C400A	250 MCM CU	260	0.561	1.14	1.21	1.42	1384	18	325	440
Q9D400A	350 MCM CU	260	0.664	1.24	1.31	1.54	1757	19	390	545
Q9E400A	500 MCM CU	260	0.794	1.37	1.44	1.67	2297	21	465	680
Q9F400A	750 MCM CU	260	0.974	1.56	1.64	1.93	3318	24	565	870
Q9G400A	1000 MCM CU	260	1.124	1.71	1.79	2.09	4197	26	640	1040
25kV 133% Copper One Conductor										
QB8400A	1/0 AWG CU	345	0.364	1.11	1.18	1.39	970	17	200	260
QB9400A	2/0 AWG CU	345	0.408	1.15	1.22	1.46	1089	18	230	300
QBA400A	3/0 AWG CU	345	0.458	1.20	1.27	1.50	1230	18	260	345
QBB400A	4/0 AWG CU	345	0.515	1.26	1.33	1.56	1407	19	295	395
QBC400A	250 MCM CU	345	0.561	1.31	1.38	1.61	1560	20	325	440
QBD400A	350 MCM CU	345	0.664	1.41	1.48	1.77	2040	22	390	545
QBE400A	500 MCM CU	345	0.794	1.54	1.63	1.93	2628	24	465	680
QBF400A	750 MCM CU	345	0.974	1.73	1.82	2.12	3553	26	565	870
QBG400A	1000 MCM CU	345	1.124	1.88	1.97	2.27	4446	28	640	104

† Ampacities are based on the following:

PRODUCT NOTES:

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

Three Phase Operation

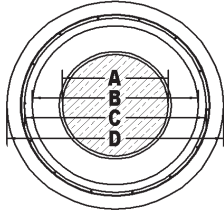
In Duct 2011 NEC Table 310.60(C)(77): Three single cables in plastic duct, direct-buried, 90°C conductor temperature, 20°C ambient temperature, earth RHO of 90°C-cm/Watt, 100% load factor, and shields short-circuited.

Isolated in Air (2011 NEC Table 310.60(C)(69): Single conductor cable, 90°C conductor temperature, 40°C ambient temperature, and shields grounded at one point only.

In Cable Tray: per 2011 NEC 392.80(B)(2)(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 310.60(C)(69) (Copper), "Isolated in Air" values noted above.

25kV 1/C TRXLPE MV-90 POWER (wire shield)

100/133% Medium Voltage Commercial & Industrial Cables



Product Number	Conductor	Insulation Thickness (mils)	Conductor Diameter (in)	Insulation Diameter (in)	Insulation Shield Diameter (in)	Jacket Diameter (in)	Cable Weight (lbs./kft)	Minimum Bending Radius (in)	† Ampacity (Amps)	
									90°C In Duct	90°C In Air
25kV 100% Aluminum One Conductor										
Q90400A	1 AWG AL	260	0.324	0.89	0.95	1.16	534	14	135	175
Q9Q400A	1/0 AWG AL	260	0.364	0.93	0.99	1.22	581	15	155	200
Q9R400A	2/0 AWG AL	260	0.408	0.98	1.03	1.25	631	15	175	230
Q9S400A	3/0 AWG AL	260	0.458	1.03	1.10	1.31	711	16	200	270
Q9T400A	4/0 AWG AL	260	0.515	1.08	1.16	1.37	789	17	230	310
Q9U400A	250 MCM AL	260	0.561	1.14	1.21	1.42	856	18	250	345
Q9V400A	350 MCM AL	260	0.664	1.24	1.31	1.54	1019	19	305	430
Q9W400A	500 MCM AL	260	0.794	1.37	1.44	1.67	1242	21	370	530
Q9X400A	750 MCM AL	260	0.974	1.56	1.64	1.93	1728	24	455	685
Q9Y400A	1000 MCM AL	260	1.124	1.71	1.79	2.09	2075	26	525	825
25kV 133% Aluminum One Conductor										
QBQ400A	1/0 AWG AL	345	0.364	1.11	1.18	1.39	747	17	155	200
QBR400A	2/0 AWG AL	345	0.408	1.15	1.22	1.46	808	18	175	230
QBS400A	3/0 AWG AL	345	0.458	1.20	1.27	1.50	875	18	200	270
QBT400A	4/0 AWG AL	345	0.515	1.26	1.33	1.56	960	19	230	310
QBU400A	250 MCM AL	345	0.561	1.31	1.38	1.61	1033	20	250	345
QBV400A	350 MCM AL	345	0.664	1.41	1.48	1.77	1302	22	305	430
QBW400A	500 MCM AL	345	0.794	1.54	1.63	1.93	1573	24	370	530
QBX400A	750 MCM AL	345	0.974	1.73	1.82	2.12	1964	26	455	685
QBY400A	1000 MCM AL	345	1.124	1.88	1.97	2.27	2324	28	525	825

† Ampacities are based on the following:

PRODUCT NOTES:

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

Three Phase Operation

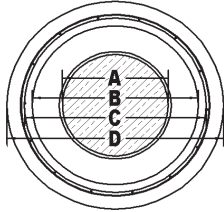
In Duct (2011 NEC Table 310.60(C)(78): Three single cables in plastic duct, direct-buried, 90°C conductor temperature, 20°C ambient temperature, earth RHO of 90°C-cm/Watt, 100% load factor, and shields short-circuited.

Isolated in Air (2011 NEC Table 310.60(C)(70): Single conductor cable, 90°C conductor temperature, 40°C ambient temperature, and shields grounded at one point only.

In Cable Tray: per 2011 NEC 392.80(B)(2)(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 310.60(C)(70) (Aluminum), "Isolated in Air" values noted above.

35kV 1/C TRXLPE MV-90 POWER (wire shield)

100/133% Medium Voltage Commercial & Industrial Cables



Product Number	Conductor	Insulation Thickness (milis)	Conductor Diameter (in)	Insulation Diameter (in)	Insulation Shield Diameter (in)	Jacket Diameter (in)	Cable Weight (lbs./kft)	Minimum Bending Radius (in)	† Ampacity (Amps)	
									90°C In Duct	90°C In Air
35kV 100% Copper One Conductor										
QB8400A	1/0 AWG CU	345	0.364	1.11	1.18	1.39	970	17	200	260
QB9400A	2/0 AWG CU	345	0.408	1.15	1.22	1.46	1089	18	230	300
QBA400A	3/0 AWG CU	345	0.458	1.20	1.27	1.50	1230	18	260	345
QBB400A	4/0 AWG CU	345	0.515	1.26	1.33	1.56	1407	19	295	395
QBC400A	250 MCM CU	345	0.561	1.31	1.38	1.61	1560	20	325	440
QBD400A	350 MCM CU	345	0.664	1.41	1.48	1.77	2040	22	390	545
QBE400A	500 MCM CU	345	0.794	1.54	1.63	1.93	2628	24	465	680
QBF400A	750 MCM CU	345	0.974	1.73	1.82	2.12	3553	26	565	870
QBG400A	1000 MCM CU	345	1.124	1.88	1.97	2.27	4446	28	640	1040
35kV 133% Copper One Conductor										
QC8400A	1/0 AWG CU	420	0.364	1.26	1.33	1.56	1123	19	200	260
QC9400A	2/0 AWG CU	420	0.408	1.30	1.38	1.60	1242	20	230	300
QCA400A	3/0 AWG CU	420	0.458	1.35	1.43	1.67	1391	20	260	345
QCB400A	4/0 AWG CU	420	0.515	1.41	1.48	1.77	1669	22	295	395
QCC400A	250 MCM CU	420	0.561	1.46	1.54	1.82	1831	22	325	440
QCD400A	350 MCM CU	420	0.664	1.57	1.65	1.94	2253	24	390	545
QCE400A	500 MCM CU	420	0.794	1.70	1.78	2.07	2828	25	465	680
QCF400A	750 MCM CU	420	0.974	1.88	1.97	2.27	3776	28	565	870
QCG400A	1000 MCM CU	420	1.124	2.03	2.12	2.42	4683	30	640	1040

†Ampacities are based on the following:

PRODUCT NOTES:

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Three Phase Operation

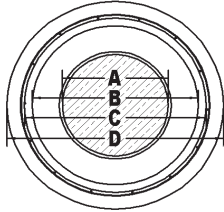
In Duct 2011 NEC Table 310.60(C)(77): Three single cables in plastic duct, direct-buried, 90°C conductor temperature, 20°C ambient temperature, earth RHO of 90°C-cm/Watt, 100% load factor, and shields short-circuited.

Isolated in Air (2011 NEC Table 310.60(C)(69): Single conductor cable, 90°C conductor temperature, 40°C ambient temperature, and shields grounded at one point only.

In Cable Tray: per 2011 NEC 392.80(B)(2)(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 310.60(C)(69) (Copper), "Isolated in Air" values noted above.

35kV 1/C TRXLPE MV-90 POWER (wire shield)

100/133% Medium Voltage Commercial & Industrial Cables



Product Number	Conductor	Insulation Thickness (mils)	Conductor Diameter (in)	Insulation Diameter (in)	Insulation Shield Diameter (in)	Jacket Diameter (in)	Cable Weight (lbs./kft)	Minimum Bending Radius (in)	† Ampacity (Amps)	
									90°C In Duct	90°C In Air
35kV 100% Aluminum One Conductor										
QBQ400A	1/0 AWG AL	345	0.364	1.11	1.18	1.39	747	17	155	200
QBR400A	2/0 AWG AL	345	0.408	1.15	1.22	1.46	808	18	175	230
QBS400A	3/0 AWG AL	345	0.458	1.20	1.27	1.50	875	18	200	270
QBT400A	4/0 AWG AL	345	0.515	1.26	1.33	1.56	960	19	230	310
QBU400A	250 MCM AL	345	0.561	1.31	1.38	1.61	1033	20	250	345
QBV400A	350 MCM AL	345	0.664	1.41	1.48	1.77	1302	22	305	430
QBW400A	500 MCM AL	345	0.794	1.54	1.63	1.93	1573	24	370	530
QBX400A	750 MCM AL	345	0.974	1.73	1.82	2.12	1964	26	455	685
QBY400A	1000 MCM AL	345	1.124	1.88	1.97	2.27	2324	28	525	825
35kV 133% Aluminum One Conductor										
QCQ400A	1/0 AWG AL	420	0.364	1.26	1.33	1.56	900	19	155	200
QCR400A	2/0 AWG AL	420	0.408	1.30	1.38	1.60	961	20	175	230
QCS400A	3/0 AWG AL	420	0.458	1.35	1.43	1.67	1037	20	200	270
QCT400A	4/0 AWG AL	420	0.515	1.41	1.48	1.77	1223	22	230	310
QCU400A	250 MCM AL	420	0.561	1.46	1.54	1.82	1304	22	250	345
QCV400A	350 MCM AL	420	0.664	1.57	1.65	1.94	1514	24	305	430
QCW400A	500 MCM AL	420	0.794	1.70	1.78	2.07	1774	25	370	530
QCX400A	750 MCM AL	420	0.974	1.88	1.97	2.27	2186	28	455	685
QCY400A	1000 MCM AL	420	1.124	2.03	2.12	2.42	2561	30	525	825

†Ampacities are based on the following:

PRODUCT NOTES:

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

Three Phase Operation

In Duct (2011 NEC Table 310.60(C)(78): Three single cables in plastic duct, direct-buried, 90°C conductor temperature, 20°C ambient temperature, earth RHO of 90°C-cm/Watt, 100% load factor, and shields short-circuited.

Isolated in Air (2011 NEC Table 310.60(C)(70): Single conductor cable, 90°C conductor temperature, 40°C ambient temperature, and shields grounded at one point only.

In Cable Tray: per 2011 NEC 392.80(B)(2)(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 310.60(C)(70) (Aluminum), "Isolated in Air" values noted above.