

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® insulation, thermosetting semiconducting insulation shield, helically applied bare copper tape shield, and PVC jacket.

Specifications

CSA CSA C68.3

Ratings

FT1
-40°C
Sunlight Resistant

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



Design Parameters

Conductor

- Class B Compressed or Compact 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 tree-retardant cross linked polyethylene (TRXLPE) VOLTALENE® 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 uncoated copper tape over the insulation shield with a minimum 20% overlap.









Jacket

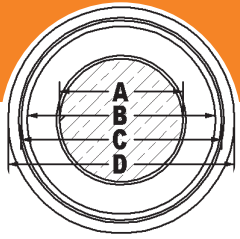
- Black sunlight resistant polyvinyl chloride (PVC) jacket tightly applied over the copper tape.

Options

- Strandseal®
- Super smooth conductor shield
- EPROTENAX® (EPR) insulation (MV-105 per CSA C68.3-97)
- Served Wire Shield
- Colored Jacket
- CPE, LLDPE, or LSOH Jacket
- Multiplex cables
- Lead Sheath or Armour

Installations

- | | |
|--|---|
|  Conduit in Air |  Direct Buried |
|  Underground Duct |  Isolated in Air |
|  Wet Locations |  Dry Locations |
|  With Messenger |  Industrial |



1/C TRXLPE POWER CSA

5kV
100% | 133%

Product Number	Conductor Size	Insulation Thickness (mils)	Conductor Diameter (mm)				Insulation Shield Diameter (mm)	Jacket Diameter (mm)	Cable Weight (kg/km)	Minimum Bending Radius (mm)	90°C			Capacity (Amps)
			(A)	(B)	(C)	(D)					Underground Duct	Conduit in Air	Isolated in Air	
5kV 100%/133% Copper One Conductor														
Q4255ZC	4 AWG CU	90	5.74	11.48	12.85	16.52	460	178	110	97	145			
Q4455ZC	2 AWG CU	90	6.81	12.55	13.92	17.59	601	178	145	130	190			
Q4655ZC	1 AWG CU	90	7.59	13.34	14.71	18.38	696	203	170	155	225			
Q4855ZC	1/0 AWG CU	90	8.59	14.33	15.70	19.37	820	203	195	180	260			
Q4955ZC	2/0 AWG CU	90	9.60	15.34	16.71	20.38	970	229	220	205	300			
Q4A55ZC	3/0 AWG CU	90	10.82	16.56	17.93	21.60	1158	229	250	240	345			
Q4B55ZC	4/0 AWG CU	90	12.14	17.88	19.25	23.94	1442	254	290	280	400			
Q4C55ZC	250 MCM CU	90	13.28	19.28	20.65	25.34	1656	254	320	315	445			
Q4D55ZC	350 MCM CU	90	15.72	21.72	23.09	27.77	2178	305	385	385	550			
Q4E55ZC	500 MCM CU	90	18.77	24.77	26.14	30.82	2947	330	470	475	695			
Q4F55XC	750 MCM CU	90	24.59	30.84	32.56	37.25	4301	406	585	600	900			
Q4G55XC	1000 MCM CU	90	28.37	34.62	36.35	41.03	5557	457	670	690	1075			

†Ampacities are based on the following:

Information Subject to Change without Notice.

PRODUCT NOTES:

Three Phase Operation

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The above dimensions are approximate and subject to normal manufacturing tolerances.
All metric (SI) dimensions are derived from a soft conversion.

Underground Duct: 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.

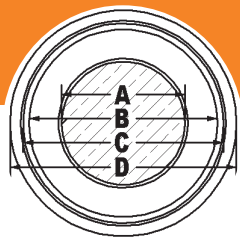
Conduit in Air: Three single cables, 90°C conductor temperature, 40°C ambient temperature, and shields short-circuited.

Isolated In Air: Single conductor cable, 90°C conductor temperature, 40°C ambient temperature, and shields grounded at one point only.



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5kV
100% | 133%

Product Number	Conductor Size	Insulation Thickness (mils)	Conductor Dimensions				Cable Weight (kg/km)	Minimum Bending Radius (mm)	90°C Ampacity (Amps)			
			(A)	(B)	(C)	(D)			Underground Duct	Conduit in Air	Isolated in Air	
5kV 100%/133% Aluminum One Conductor												
Q4K55ZC	4 AWG AL	90	5.41	11.15	12.52	16.19	322	178	86	76	115	
Q4M55ZC	2 AWG AL	90	6.81	12.55	13.92	17.59	392	178	115	100	150	
Q4O55ZC	1 AWG AL	90	7.65	13.39	14.76	18.43	433	203	130	120	175	
Q4Q55ZC	1/0 AWG AL	90	8.59	14.33	15.70	19.37	486	203	150	140	200	
Q4R55ZC	2/0 AWG AL	90	9.60	15.34	16.71	20.38	549	229	170	160	230	
Q4S55ZC	3/0 AWG AL	90	10.82	16.56	17.93	21.60	628	229	195	190	270	
Q4T55ZC	4/0 AWG AL	90	12.14	17.88	19.25	23.94	723	254	225	215	310	
Q4U55ZC	250 MCM AL	90	13.28	19.28	20.65	25.34	865	254	250	250	345	
Q4V55ZC	350 MCM AL	90	15.72	21.72	23.09	27.77	1071	305	305	305	430	
Q4W55ZC	500 MCM AL	90	18.80	24.79	26.16	30.85	1365	330	370	380	545	
Q4X55ZC	750 MCM AL	90	23.11	29.36	31.09	35.78	1885	381	470	490	710	
Q4Y55ZC	1000 MCM AL	90	26.92	33.17	34.90	39.59	2340	432	545	580	855	

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Underground Duct: 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.

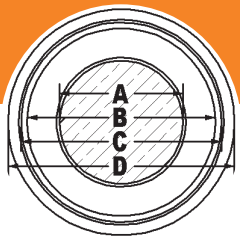
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8kV
100% | 133%

Product Number	Conductor Size	Insulation Thickness (mils)	Conductor Diameter (mm)		Insulation Diameter (mm)		Jacket Diameter (mm)	Cable Weight (kg/km)	Minimum Bending Radius (mm)	90°C			Capacity (Amps)
			(A)	(B)	(C)	(D)				Underground Duct	Conduit in Air	Isolated in Air	
8kV 100% Copper One Conductor													
Q5255ZC	4 AWG CU	115	5.74	12.75	14.12	17.79	501	178	115	110	150		
Q5455ZC	2 AWG CU	115	6.81	13.82	15.19	18.86	643	203	155	150	195		
Q5655ZC	1 AWG CU	115	7.59	14.61	15.98	19.65	740	203	175	170	225		
Q5855ZC	1/0 AWG CU	115	8.59	15.60	16.97	20.64	866	229	200	195	260		
Q5955ZC	2/0 AWG CU	115	9.60	16.61	17.98	21.65	1018	229	230	225	300		
Q5A55ZC	3/0 AWG CU	115	10.82	17.83	19.20	23.89	1259	254	260	260	345		
Q5B55ZC	4/0 AWG CU	115	12.14	19.15	20.52	25.21	1497	254	295	295	400		
Q5C55ZC	250 MCM CU	115	13.28	20.55	21.92	26.61	1713	279	325	330	445		
Q5D55ZC	350 MCM CU	115	15.72	22.99	24.36	29.04	2240	305	390	395	550		
Q5E55ZC	500 MCM CU	115	18.77	26.04	27.76	32.45	3037	356	465	480	685		
Q5F55XC	750 MCM CU	115	24.59	32.11	33.83	38.52	4380	432	565	585	885		
Q5G55XC	1000 MCM CU	115	28.37	35.89	37.62	42.30	5643	457	640	675	1060		
8kV 133% Copper One Conductor													
Q6455ZC	2 AWG CU	140	6.81	15.14	16.51	20.18	690	203	155	150	195		
Q6655ZC	1 AWG CU	140	7.59	15.93	17.30	20.97	788	229	175	170	225		
Q6855ZC	1/0 AWG CU	140	8.59	16.92	18.29	22.97	965	229	200	195	260		
Q6955ZC	2/0 AWG CU	140	9.60	17.93	19.30	23.99	1121	254	230	225	300		
Q6A55ZC	3/0 AWG CU	140	10.82	19.15	20.52	25.21	1316	254	260	260	345		
Q6B55ZC	4/0 AWG CU	140	12.14	20.47	21.84	26.53	1557	279	295	295	400		
Q6C55ZC	250 MCM CU	140	13.28	21.87	23.24	27.93	1775	305	325	330	445		
Q6D55ZC	350 MCM CU	140	15.72	24.31	25.68	30.37	2307	330	390	395	550		
Q6E55ZC	500 MCM CU	140	18.77	27.36	29.08	33.77	3111	356	465	480	685		
Q6F55XC	750 MCM CU	140	24.59	33.43	35.15	39.84	4465	432	565	585	885		
Q6G55XC	1000 MCM CU	140	28.37	37.21	38.94	45.20	5887	483	640	675	1060		

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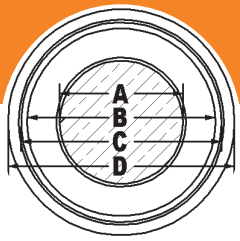
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Conduit in Air: Three single cables, 90°C conductor temperature, 40°C ambient temperature, and shields short-circuited.

Isolated In Air: Single conductor cable, 90°C conductor temperature, 40°C ambient temperature, and shields grounded at one point only.





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8kV
100% | 133%

Product Number	Conductor Size	Insulation Thickness (mils)	Conductor Dimensions (mm)				Jacket Diameter (mm)	Cable Weight (kg/km)	Minimum Bending Radius (mm)	90°C Ampacity (Amps)		
			(A)	(B)	(C)	(D)				Underground Duct	Conduit in Air	Isolated in Air
8kV 100% Aluminum One Conductor												
Q5K55ZC	4 AWG AL	115	5.41	12.42	13.79	17.46	362	178	91	84	115	
Q5M55ZC	2 AWG AL	115	6.81	13.82	15.19	18.86	434	203	120	115	150	
Q5O55ZC	1 AWG AL	115	7.65	14.66	16.03	19.70	477	203	135	130	175	
Q5Q55ZC	1/0 AWG AL	115	8.59	15.60	16.97	20.64	532	229	155	150	200	
Q5R55ZC	2/0 AWG AL	115	9.60	16.61	17.98	21.65	597	229	175	175	235	
Q5S55ZC	3/0 AWG AL	115	10.82	17.83	19.20	23.89	729	254	200	200	270	
Q5T55ZC	4/0 AWG AL	115	12.14	19.15	20.52	25.21	778	254	230	230	310	
Q5U55ZC	250 MCM AL	115	13.28	20.55	21.92	26.61	922	279	250	255	345	
Q5V55ZC	350 MCM AL	115	15.72	22.99	24.36	29.04	1133	305	305	310	430	
Q5W55ZC	500 MCM AL	115	18.80	26.06	27.79	32.47	1455	356	370	385	535	
Q5X55ZC	750 MCM AL	115	23.11	30.63	32.36	37.05	1962	406	455	485	700	
Q5Y55ZC	1000 MCM AL	115	26.92	34.44	36.17	40.86	2423	457	525	565	840	
8kV 133% Aluminum One Conductor												
Q6M55ZC	2 AWG AL	140	6.81	15.14	16.51	20.18	480	203	120	115	150	
Q6O55ZC	1 AWG AL	140	7.65	15.98	17.35	21.02	525	229	135	130	175	
Q6Q55ZC	1/0 AWG AL	140	8.59	16.92	18.29	22.97	631	229	155	150	200	
Q6R55ZC	2/0 AWG AL	140	9.60	17.93	19.30	23.99	700	254	175	175	235	
Q6S55ZC	3/0 AWG AL	140	10.82	19.15	20.52	25.21	786	254	200	200	270	
Q6T55ZC	4/0 AWG AL	140	12.14	20.47	21.84	26.53	837	279	230	230	310	
Q6U55ZC	250 MCM AL	140	13.28	21.87	23.24	27.93	984	305	250	255	345	
Q6V55ZC	350 MCM AL	140	15.72	24.31	25.68	30.37	1200	330	305	310	430	
Q6W55ZC	500 MCM AL	140	18.80	27.38	29.11	33.79	1529	356	370	385	535	
Q6X55ZC	750 MCM AL	140	23.11	31.95	33.68	38.37	2044	432	455	485	700	
Q6Y55ZC	1000 MCM AL	140	26.92	35.76	37.49	42.18	2513	457	525	565	840	

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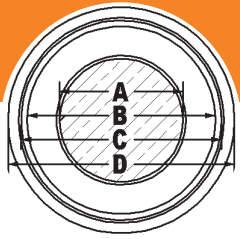
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15kV
100% | 133%

Product Number	Conductor Size	Insulation Thickness (mils)	Conductor Diameter (mm)				Insulation Shield Diameter (mm)	Jacket Diameter (mm)	Cable Weight (kg/km)	Minimum Bending Radius (mm)	90°C		
			(A)	(B)	(C)	(D)					Underground Duct	Conduit in Air	Isolated in Air
15kV 100% Copper One Conductor													
Q7455ZC	2 AWG CU	175	6.81	16.92	18.29	22.97	805	229	155	150	195		
Q7655ZC	1 AWG CU	175	7.59	17.70	19.08	23.76	907	254	175	170	225		
Q7855ZC	1/0 AWG CU	175	8.59	18.69	20.07	24.75	1039	254	200	195	260		
Q7955ZC	2/0 AWG CU	175	9.60	19.71	21.08	25.77	1198	279	230	225	300		
Q7A55ZC	3/0 AWG CU	175	10.82	20.93	22.30	26.99	1397	279	260	260	345		
Q7B55ZC	4/0 AWG CU	175	12.14	22.25	23.62	28.31	1640	305	295	295	400		
Q7C55ZC	250 MCM CU	175	13.28	23.65	25.02	29.71	1863	305	325	330	445		
Q7D55ZC	350 MCM CU	175	15.72	26.09	27.81	32.50	2423	356	390	395	550		
Q7E55ZC	500 MCM CU	175	18.77	29.13	30.86	35.55	3213	381	465	480	685		
Q7F55XC	750 MCM CU	175	24.59	35.20	36.93	41.62	4583	457	565	585	885		
Q7G55XC	1000 MCM CU	175	28.37	38.99	41.12	47.38	6058	508	640	675	1060		
15kV 133% Copper One Conductor													
Q8455ZC	2 AWG CU	220	6.81	19.25	20.62	25.31	905	254	155	150	195		
Q8655ZC	1 AWG CU	220	7.59	20.04	21.41	26.10	1009	279	175	170	225		
Q8855ZC	1/0 AWG CU	220	8.59	21.03	22.40	27.09	1145	279	200	195	260		
Q8955ZC	2/0 AWG CU	220	9.60	22.05	23.42	28.11	1307	305	230	225	300		
Q8A55ZC	3/0 AWG CU	220	10.82	23.27	24.64	29.32	1509	305	260	260	345		
Q8B55ZC	4/0 AWG CU	220	12.14	24.59	25.96	30.65	1758	330	295	295	400		
Q8C55ZC	250 MCM CU	220	13.28	25.98	27.36	32.04	1985	356	325	330	445		
Q8D55ZC	350 MCM CU	220	15.72	28.42	30.15	34.84	2555	381	390	395	550		
Q8E55ZC	500 MCM CU	220	18.77	31.47	33.20	37.88	3355	406	465	480	685		
Q8F55XC	750 MCM CU	220	24.59	37.54	39.27	45.53	4898	483	565	585	885		
Q8G55XC	1000 MCM CU	220	28.37	41.33	43.46	49.72	6243	533	640	675	1060		

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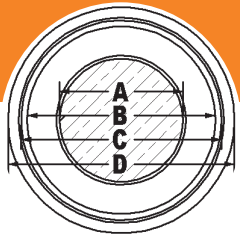
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			(A)	(B)	(C)	(D)			Underground Duct	Conduit in Air	Isolated in Air	
15kV 100% Aluminum One Conductor												
Q7M55ZC	2 AWG AL	175	6.81	16.92	18.29	22.97	596	229	120	115	150	
Q7O55ZC	1 AWG AL	175	7.65	17.75	19.13	23.81	644	254	135	130	175	
Q7Q55ZC	1/0 AWG AL	175	8.59	18.69	20.07	24.75	706	254	155	150	200	
Q7R55ZC	2/0 AWG AL	175	9.60	19.71	21.08	25.77	777	279	175	175	235	
Q7S55ZC	3/0 AWG AL	175	10.82	20.93	22.30	26.99	866	279	200	200	270	
Q7T55ZC	4/0 AWG AL	175	12.14	22.25	23.62	28.31	921	305	230	230	310	
Q7U55ZC	250 MCM AL	175	13.28	23.65	25.02	29.71	1072	305	250	255	345	
Q7V55ZC	350 MCM AL	175	15.72	26.09	27.81	32.50	1316	356	305	310	430	
Q7W55ZC	500 MCM AL	175	18.80	29.16	30.89	35.57	1632	381	370	385	535	
Q7X55ZC	750 MCM AL	175	23.11	33.73	35.46	40.14	2158	432	455	485	700	
Q7Y55ZC	1000 MCM AL	175	26.92	37.54	39.27	45.53	2790	483	525	565	840	
15kV 133% Aluminum One Conductor												
Q8M55ZC	2 AWG AL	220	6.81	19.25	20.62	25.31	695	254	120	115	150	
Q8O55ZC	1 AWG AL	220	7.65	20.09	21.46	26.15	746	279	135	130	175	
Q8Q55ZC	1/0 AWG AL	220	8.59	21.03	22.40	27.09	811	279	155	150	200	
Q8R55ZC	2/0 AWG AL	220	9.60	22.05	23.42	28.11	886	305	175	175	235	
Q8S55ZC	3/0 AWG AL	220	10.82	23.27	24.64	29.32	979	305	200	200	270	
Q8T55ZC	4/0 AWG AL	220	12.14	24.59	25.96	30.65	1038	330	230	230	310	
Q8U55ZC	250 MCM AL	220	13.28	25.98	27.36	32.04	1194	356	250	255	345	
Q8V55ZC	350 MCM AL	220	15.72	28.42	30.15	34.84	1448	381	305	310	430	
Q8W55ZC	500 MCM AL	220	18.80	31.50	33.22	37.91	1774	406	370	385	535	
Q8X55ZC	750 MCM AL	220	23.11	36.07	37.80	42.48	2316	483	455	485	700	
Q8Y55ZC	1000 MCM AL	220	26.92	39.88	42.01	48.27	3005	508	525	565	840	

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Underground Duct: 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.

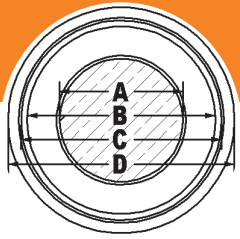
Conduit in Air: Three single cables, 90°C conductor temperature, 40°C ambient temperature, and shields short-circuited.

Isolated In Air: Single conductor cable, 90°C conductor temperature, 40°C ambient temperature, and shields grounded at one point only.



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1/C TRXLPE POWER CSA

25kV

100% | 133%

Product Number	Conductor Size	Insulation Thickness (mils)	Conductor Dimensions				Cable Weight (kg/km)	Minimum Bending Radius (mm)	90°C Ampacity (Amps)			
			(A)	(B)	(C)	(D)			Underground Duct	Conduit in Air	Isolated in Air	
25kV 100% Copper One Conductor												
Q9655ZC	1 AWG CU	260	7.59	22.12	23.50	28.18	1107	305	175	170	225	
Q9855ZC	1/0 AWG CU	260	8.59	23.11	24.49	29.17	1245	305	200	195	260	
Q9955ZC	2/0 AWG CU	260	9.60	24.13	25.50	30.19	1410	330	230	225	300	
Q9A55ZC	3/0 AWG CU	260	10.82	25.35	26.72	31.41	1617	330	260	260	345	
Q9B55ZC	4/0 AWG CU	260	12.14	26.67	28.40	33.08	1892	356	295	295	395	
Q9C55ZC	250 MCM CU	260	13.28	28.07	29.79	34.48	2124	381	325	330	440	
Q9D55ZC	350 MCM CU	260	15.72	30.51	32.23	36.92	2679	406	390	395	545	
Q9E55ZC	500 MCM CU	260	18.77	33.55	35.28	39.97	3488	432	465	480	680	
Q9F55XC	750 MCM CU	260	24.59	39.62	41.76	48.02	5094	508	565	585	870	
Q9G55XC	1000 MCM CU	260	28.37	43.41	45.54	51.80	6414	559	640	675	1040	
25kV 133% Copper One Conductor												
QA655ZC	1 AWG CU	320	7.59	25.27	26.64	31.33	1266	330	175	170	225	
QA855ZC	1/0 AWG CU	320	8.59	26.26	27.99	32.68	1432	356	200	195	260	
QA955ZC	2/0 AWG CU	320	9.60	27.28	29.01	33.69	1602	356	230	225	300	
QAA55ZC	3/0 AWG CU	320	10.82	28.50	30.23	34.91	1815	381	260	260	345	
QAB55ZC	4/0 AWG CU	320	12.14	29.82	31.55	36.23	2074	406	295	295	395	
QAC55ZC	250 MCM CU	320	13.28	31.22	32.94	37.63	2312	406	325	330	440	
QAD55ZC	350 MCM CU	320	15.72	33.66	35.38	40.07	2878	432	390	395	545	
QAE55ZC	500 MCM CU	320	18.77	36.70	38.43	44.69	3851	483	465	480	680	
QAF55XC	750 MCM CU	320	24.59	42.77	44.91	51.17	5348	559	565	585	870	
QAG55XC	1000 MCM CU	320	28.37	46.56	48.69	54.95	6685	610	640	675	1040	

†Ampacities are based on the following:

Information Subject to Change without Notice.

PRODUCT NOTES:

Three Phase Operation

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All metric (SI) dimensions are derived from a soft conversion.

Underground Duct: 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.

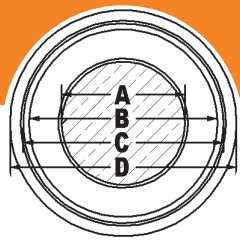
Conduit in Air: Three single cables, 90°C conductor temperature, 40°C ambient temperature, and shields short-circuited.

Isolated In Air: Single conductor cable, 90°C conductor temperature, 40°C ambient temperature, and shields grounded at one point only.



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1/C TRXLPE POWER CSA

25kV
100% | 133%

Product Number	Conductor Size	Insulation Thickness (mils)	Conductor Dimensions				Cable Weight (kg/km)	Minimum Bending Radius (mm)	90°C Capacity			
			(A)	(B)	(C)	(D)			Underground Duct	Conduit in Air	Isolated in Air	
25kV 100% Aluminum One Conductor												
Q9055ZC	1 AWG AL	260	7.65	22.17	23.55	28.23	844	305	135	130	175	
Q9Q55ZC	1/0 AWG AL	260	8.59	23.11	24.49	29.17	911	305	155	150	200	
Q9R55ZC	2/0 AWG AL	260	9.60	24.13	25.50	30.19	989	330	175	175	230	
Q9S55ZC	3/0 AWG AL	260	10.82	25.35	26.72	31.41	1086	330	200	200	270	
Q9T55ZC	4/0 AWG AL	260	12.14	26.67	28.40	33.08	1173	356	230	230	310	
Q9U55ZC	250 MCM AL	260	13.28	28.07	29.79	34.48	1333	381	250	255	345	
Q9V55ZC	350 MCM AL	260	15.72	30.51	32.23	36.92	1572	406	305	310	430	
Q9W55ZC	500 MCM AL	260	18.80	33.58	35.31	39.99	1907	432	370	385	530	
Q9X55ZC	750 MCM AL	260	23.11	38.15	39.88	46.14	2618	483	455	485	685	
Q9Y55ZC	1000 MCM AL	260	26.92	41.96	44.09	50.36	3172	533	525	565	825	
25kV 133% Aluminum One Conductor												
QA055ZC	1 AWG AL	320	7.65	25.32	26.70	31.38	1003	330	135	130	175	
QAQ55ZC	1/0 AWG AL	320	8.59	26.26	27.99	32.68	1098	356	155	150	200	
QAR55ZC	2/0 AWG AL	320	9.60	27.28	29.01	33.69	1181	356	175	175	230	
QAS55ZC	3/0 AWG AL	320	10.82	28.50	30.23	34.91	1284	381	200	200	270	
QAT55ZC	4/0 AWG AL	320	12.14	29.82	31.55	36.23	1355	406	230	230	310	
QAU55ZC	250 MCM AL	320	13.28	31.22	32.94	37.63	1521	406	250	255	345	
QAV55ZC	350 MCM AL	320	15.72	33.66	35.38	40.07	1771	432	305	310	430	
QAW55ZC	500 MCM AL	320	18.80	36.73	38.46	44.72	2270	483	370	385	530	
QAX55ZC	750 MCM AL	320	23.11	41.30	43.43	49.70	2901	533	455	485	685	
QAY55ZC	1000 MCM AL	320	26.92	45.11	47.24	53.51	3437	584	525	565	825	

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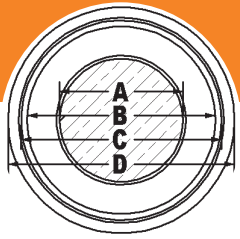
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Isolated In Air: Single conductor cable, 90°C conductor temperature, 40°C ambient temperature, and shields grounded at one point only.



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28kV

100% | 133%

Product Number	Conductor Size	Insulation Thickness (mils)	Conductor Diameter (mm)				Insulation Shield Diameter (mm)	Jacket Diameter (mm)	Cable Weight (kg/km)	Minimum Bending Radius (mm)	90°C			Capacity (Amps)
			(A)	(B)	(C)	(D)					Underground Duct	Conduit in Air	Isolated in Air	
28kV 100% Copper One Conductor														
QV655ZC	1 AWG CU	280	7.59	23.19	24.56	29.25	1159	305	175	170	225			
QV855ZC	1/0 AWG CU	280	8.59	24.18	25.55	30.24	1299	330	200	195	260			
QV955ZC	2/0 AWG CU	280	9.60	25.20	26.57	31.25	1466	330	230	225	300			
QVA55ZC	3/0 AWG CU	280	10.82	26.42	28.14	32.83	1697	356	260	260	345			
QVB55ZC	4/0 AWG CU	280	12.14	27.74	29.46	34.15	1952	381	295	295	395			
QVC55ZC	250 MCM CU	280	13.28	29.13	30.86	35.55	2186	381	325	330	440			
QVD55ZC	350 MCM CU	280	15.72	31.57	33.30	37.99	2745	406	390	395	545			
QVE55ZC	500 MCM CU	280	18.77	34.62	36.35	41.03	3559	457	465	480	680			
QVF55XC	750 MCM CU	280	24.59	40.69	42.82	49.09	5179	533	565	585	870			
QVG55XC	1000 MCM CU	280	28.37	44.48	46.61	52.87	6504	584	640	675	1040			
28kV 133% Copper One Conductor														
QB655ZC	1 AWG CU	345	7.59	26.64	28.37	33.06	1363	356	175	170	225			
QB855ZC	1/0 AWG CU	345	8.59	27.64	29.36	34.05	1508	381	200	195	260			
QB955ZC	2/0 AWG CU	345	9.60	28.65	30.38	35.06	1681	381	230	225	300			
QBA55ZC	3/0 AWG CU	345	10.82	29.87	31.60	36.28	1896	406	260	260	345			
QBB55ZC	4/0 AWG CU	345	12.14	31.19	32.92	37.60	2157	406	295	295	395			
QBC55ZC	250 MCM CU	345	13.28	32.59	34.32	39.00	2399	432	325	330	440			
QBD55ZC	350 MCM CU	345	15.72	35.03	36.75	41.44	2969	457	390	395	545			
QBE55ZC	500 MCM CU	345	18.77	38.07	39.80	46.06	3953	483	465	480	680			
QBF55XC	750 MCM CU	345	24.59	44.15	46.28	52.54	5463	584	565	585	870			
QBG55XC	1000 MCM CU	345	28.37	47.93	50.06	56.32	6808	610	640	675	1040			

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PRODUCT NOTES:

Three Phase Operation

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Underground Duct: 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.

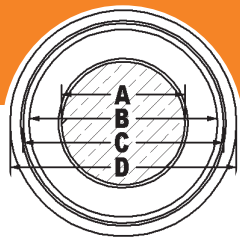
Conduit in Air: Three single cables, 90°C conductor temperature, 40°C ambient temperature, and shields short-circuited.

Isolated In Air: Single conductor cable, 90°C conductor temperature, 40°C ambient temperature, and shields grounded at one point only.



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28kV
100% | 133%

Product Number	Conductor Size	Insulation Thickness (mils)	Conductor Dimensions (mm)				Jacket Diameter (mm)	Cable Weight (kg/km)	Minimum Bending Radius (mm)	90°C		
			(A)	(B)	(C)	(D)				Underground Duct	Conduit in Air	Isolated in Air
28kV 100% Aluminum One Conductor												
QV055ZC	1 AWG AL	280	7.65	23.24	24.61	29.30	896	305	135	130	175	
QVQ55ZC	1/0 AWG AL	280	8.59	24.18	25.55	30.24	965	330	155	150	200	
QVR55ZC	2/0 AWG AL	280	9.60	25.20	26.57	31.25	1045	330	175	175	230	
QVS55ZC	3/0 AWG AL	280	10.82	26.42	28.14	32.83	1166	356	200	200	270	
QVT55ZC	4/0 AWG AL	280	12.14	27.74	29.46	34.15	1233	381	230	230	310	
QVU55ZC	250 MCM AL	280	13.28	29.13	30.86	35.55	1395	381	250	255	345	
QVV55ZC	350 MCM AL	280	15.72	31.57	33.30	37.99	1638	406	305	310	430	
QVW55ZC	500 MCM AL	280	18.80	34.65	36.37	41.06	1977	457	370	385	530	
QVX55ZC	750 MCM AL	280	23.11	39.22	41.35	47.61	2736	508	455	485	685	
QVY55ZC	1000 MCM AL	280	26.92	43.03	45.16	51.42	3260	559	525	565	825	
28kV 133% Aluminum One Conductor												
QB055ZC	1 AWG AL	345	7.65	26.70	28.42	33.11	1100	356	135	130	175	
QBQ55ZC	1/0 AWG AL	345	8.59	27.64	29.36	34.05	1174	381	155	150	200	
QBR55ZC	2/0 AWG AL	345	9.60	28.65	30.38	35.06	1260	381	175	175	230	
QBS55ZC	3/0 AWG AL	345	10.82	29.87	31.60	36.28	1365	406	200	200	270	
QBT55ZC	4/0 AWG AL	345	12.14	31.19	32.92	37.60	1438	406	230	230	310	
QBU55ZC	250 MCM AL	345	13.28	32.59	34.32	39.00	1608	432	250	255	345	
QBV55ZC	350 MCM AL	345	15.72	35.03	36.75	41.44	1862	457	305	310	430	
QBW55ZC	500 MCM AL	345	18.80	38.10	39.83	46.09	2372	483	370	385	530	
QBX55ZC	750 MCM AL	345	23.11	42.67	44.81	51.07	3013	559	455	485	685	
QBY55ZC	1000 MCM AL	345	26.92	46.48	48.62	54.88	3557	610	525	565	825	

†Ampacities are based on the following:

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PRODUCT NOTES:

Three Phase Operation

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All metric (SI) dimensions are derived from a soft conversion.

Underground Duct: 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.

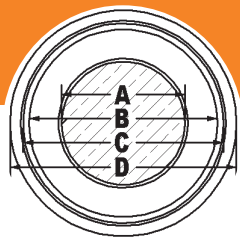
Conduit in Air: Three single cables, 90°C conductor temperature, 40°C ambient temperature, and shields short-circuited.

Isolated In Air: Single conductor cable, 90°C conductor temperature, 40°C ambient temperature, and shields grounded at one point only.



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1/C TRXLPE POWER CSA

35kV

100% | 133%

Product Number	Conductor Size	Insulation Thickness (mils)	Conductor Diameter (mm)				Insulation Shield Diameter (mm)	Jacket Diameter (mm)	Cable Weight (kg/km)	Minimum Bending Radius (mm)	90°C			Ampacity (Amps)
			(A)	(B)	(C)	(D)					Underground Duct	Conduit in Air	Isolated in Air	
35kV 100% Copper One Conductor														
QB855ZC	1/0 AWG CU	345	8.59	27.64	29.36	34.05	1508	381	200	195	260			
QB955ZC	2/0 AWG CU	345	9.60	28.65	30.38	35.06	1681	381	230	225	300			
QBA55ZC	3/0 AWG CU	345	10.82	29.87	31.60	36.28	1896	406	260	260	345			
QBB55ZC	4/0 AWG CU	345	12.14	31.19	32.92	37.60	2157	406	295	295	395			
QBC55ZC	250 MCM CU	345	13.28	32.59	34.32	39.00	2399	432	325	330	440			
QBD55ZC	350 MCM CU	345	15.72	35.03	36.75	41.44	2969	457	390	395	545			
QBE55ZC	500 MCM CU	345	18.77	38.07	39.80	46.06	3953	483	465	480	680			
QBF55XC	750 MCM CU	345	24.59	44.15	46.28	52.54	5463	584	565	585	870			
QBG55XC	1000 MCM CU	345	28.37	47.93	50.06	56.32	6808	610	640	675	1040			
35kV 133% Copper One Conductor														
QC855ZC	1/0 AWG CU	420	8.59	31.60	33.32	38.01	1745	406	200	195	260			
QC955ZC	2/0 AWG CU	420	9.60	32.61	34.34	39.03	1923	432	230	225	300			
QCA55ZC	3/0 AWG CU	420	10.82	33.83	35.56	40.25	2145	432	260	260	345			
QCB55ZC	4/0 AWG CU	420	12.14	35.15	36.88	41.57	2414	457	295	295	395			
QCC55ZC	250 MCM CU	420	13.28	36.55	38.28	42.96	2664	483	325	330	440			
QCD55ZC	350 MCM CU	420	15.72	38.99	41.12	47.38	3443	508	390	395	545			
QCE55ZC	500 MCM CU	420	18.77	42.04	44.17	50.43	4303	559	465	480	680			
QCF55XC	750 MCM CU	420	24.59	48.11	50.24	56.50	5811	610	565	585	870			
QCG55XC	1000 MCM CU	420	28.37	51.89	54.03	60.29	7177	660	640	675	1040			

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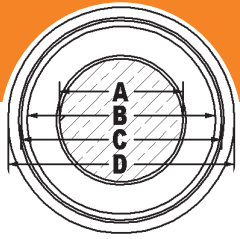
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1/C TRXLPE POWER CSA

35kV

100% | 133%

Product Number	Conductor Size	Insulation Thickness (mils)	Conductor Diameter (mm)				Insulation Shield Diameter (mm)	Jacket Diameter (mm)	Cable Weight (kg/km)	Minimum Bending Radius (mm)	90°C			Capacity (Amps)
			(A)	(B)	(C)	(D)					Underground Duct	Conduit in Air	Isolated in Air	
35kV 100% Aluminum One Conductor														
QBQ55ZC	1/0 AWG AL	345	8.59	27.64	29.36	34.05	1174	381	381	155	150	200		
QBR55ZC	2/0 AWG AL	345	9.60	28.65	30.38	35.06	1260	381	381	175	175	230		
QBS55ZC	3/0 AWG AL	345	10.82	29.87	31.60	36.28	1365	406	406	200	200	270		
QBT55ZC	4/0 AWG AL	345	12.14	31.19	32.92	37.60	1438	406	406	230	230	310		
QBU55ZC	250 MCM AL	345	13.28	32.59	34.32	39.00	1608	432	432	250	255	345		
QBV55ZC	350 MCM AL	345	15.72	35.03	36.75	41.44	1862	457	457	305	310	430		
QBW55ZC	500 MCM AL	345	18.80	38.10	39.83	46.09	2372	483	483	370	385	530		
QBX55ZC	750 MCM AL	345	23.11	42.67	44.81	51.07	3013	559	559	455	485	685		
QBY55ZC	1000 MCM AL	345	26.92	46.48	48.62	54.88	3557	610	610	525	565	825		
35kV 133% Aluminum One Conductor														
QCQ55ZC	1/0 AWG AL	420	8.59	27.64	29.36	34.05	1174	381	381	155	150	200		
QCR55ZC	2/0 AWG AL	420	9.60	28.65	30.38	35.06	1260	381	381	175	175	230		
QCS55ZC	3/0 AWG AL	420	10.82	29.87	31.60	36.28	1365	406	406	200	200	270		
QCT55ZC	4/0 AWG AL	420	12.14	31.19	32.92	37.60	1438	406	406	230	230	310		
QCU55ZC	250 MCM AL	420	13.28	32.59	34.32	39.00	1608	432	432	250	255	345		
QCV55ZC	350 MCM AL	420	15.72	35.03	36.75	41.44	1862	457	457	305	310	430		
QCW55ZC	500 MCM AL	420	18.80	38.10	39.83	46.09	2372	483	483	370	385	530		
QCX55ZC	750 MCM AL	420	23.11	42.67	44.81	51.07	3013	559	559	455	485	685		
QCY55ZC	1000 MCM AL	420	26.92	46.48	48.62	54.88	3557	610	610	525	565	825		

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Isolated In Air: Single conductor cable, 90°C conductor temperature, 40°C ambient temperature, and shields grounded at one point only.



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1-800-263-4405 (West-CAN)
1-800-361-1418 (East-CAN)

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