



Description

Three copper conductors, each with a semiconducting conductor shield, high dielectric strength VOLTALENE® TRXLPE insulation, semiconducting insulation shield, helically applied non-magnetic uncoated copper tape shield, cabled with fillers and a bare copper bonding conductor, heavy ribbed inner PVC jacket, galvanised steel interlocking armour (GSIA), and an overall PVC Jacket.

Specifications

Ratings

CSA	CSA C22.2 No. 131	FT4 -40°C Sunlight Resistant
CSA	CSA C68.3	
CSA	CSA C22.2 No. 174	HL
IEEE	IEEE 383 Flame Test	
ICEA	ICEA T-29-520	210,000 Btu Vertical Flame Test
ICEA	ICEA T-30-520	70,000 Btu Vertical Flame Test

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



Design Parameters

Conductor

- Three soft drawn, bare, Class B compact or compressed stranded copper conductors 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 crosslinked 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 maximum 15% gap.

Assembly

- Three conductors are twisted together with three soft drawn, bare copper bonding conductors, the core is fully filled and covered with a binder tape.

Inner Jacket

- Heavy black ribbed PVC jacket is extruded over the assembly to prevent slipping of the core when in a vertical position.

Armour

- Flexible galvanised steel interlocking armour (GSIA) applied over the inner jacket for mechanical protection.

Outer Jacket

- Low-temperature, sunlight-resistant polyvinyl chloride (PVC) jacket applied over the armour.

Options

- Super smooth conductor shield
- EPROTENAX® (EPR) insulation
- Colored outer jacket
- Aluminum phase conductor and bonding conductor
- Multiple bonding conductors
- Strandseal®
- Overlapping copper tape shield
- AG14 Rating

Installations

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



3/C TRXLPE Risertek®

5kV
100% | 133%

Product Number	Conductor	Insulation Thickness (mil/s)	Conductor Diameter (mm)	Insulation Diameter (mm)	Insulation Shield Diameter (mm)	Inner Jacket Diameter (mm)	Armour Diameter (mm)	Jacket Diameter (mm)	Cable Weight (kg/km)	Minimum Bending Radius (mm)	†Ampacity (Amps)
			(A)	(B)	(C)	(D)	(E)	(F)			90°C
5kV 100%/133% Copper Three Conductor											
Q4268ØC	4 AWG CU	90	5.41	11.22	12.89	39.22	41.00	47.21	3326	356	105
Q4468ØC	2 AWG CU	90	6.81	12.61	14.29	42.24	44.01	50.22	3943	356	140
Q4668ØC	1 AWG CU	90	7.59	13.40	15.08	43.94	45.72	51.92	4316	381	160
Q4868ØC	1/0 AWG CU	90	8.59	14.39	16.07	46.08	48.62	54.83	5181	407	185
Q4968ØC	2/0 AWG CU	90	9.60	15.41	17.08	49.79	52.33	58.54	5974	432	215
Q4A68ØC	3/0 AWG CU	90	10.82	16.63	18.30	52.58	55.12	61.33	6772	432	250
Q4B68ØC	4/0 AWG CU	90	12.14	17.95	19.62	55.43	57.97	65.68	7850	483	285
Q4C68ØC	250 MCM CU	90	13.28	19.29	20.97	58.33	60.87	68.58	8669	483	320
Q4D68ØC	350 MCM CU	90	15.72	21.73	23.41	63.60	66.14	73.85	10603	534	395
Q4E68ØC	500 MCM CU	90	18.77	24.78	26.45	70.18	72.72	80.43	13314	610	485
Q4F68ØC	750 MCM CU	90	23.11	29.32	31.45	85.81	87.23	94.94	18578	686	615
Q4G68ØC	1000 MCM CU	90	26.92	33.13	35.26	94.31	95.73	103.44	23230	737	705

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PRODUCT NOTES:

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†Ampacities are based on the following:

Isolated In Air or Uncovered Cable Tray: Three-conductor cable, spaced one cable diameter (minimum), 90°C conductor temperature, and 40°C ambient temperature, and shields short-circuited.
Inner jacket diameter is measured over the ribs.



1-800-845-8507 (US)
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Product Number	Conductor	Insulation Thickness (mil/s)	Conductor Diameter (mm)		Insulation Diameter (mm)		Inner Jacket Diameter (mm)		Annour Diameter (mm)		Jacket Diameter (mm)		Cable Weight (kg/km)	Minimum Bending Radius (mm)	†Ampacity (Amps)
			(A)	(B)	(C)	(D)	(E)	(F)			90°C				
8kV 100% Copper Three Conductor															
Q52680C	4 AWG CU	115	5.41	12.42	14.10	41.76	43.53	49.74	3551	356	120				
Q54680C	2 AWG CU	115	6.81	13.82	15.49	44.77	47.31	53.52	4559	381	165				
Q56680C	1 AWG CU	115	7.59	14.60	16.28	46.47	49.01	55.22	4951	407	185				
Q58680C	1/0 AWG CU	115	8.59	15.59	17.27	50.21	52.91	59.12	5703	432	215				
Q59680C	2/0 AWG CU	115	9.60	16.61	18.29	52.56	55.25	61.46	6301	432	245				
Q5A680C	3/0 AWG CU	115	10.82	17.83	19.51	55.19	57.89	65.60	7308	483	285				
Q5B680C	4/0 AWG CU	115	12.14	19.15	20.83	58.05	60.74	68.45	8192	483	325				
Q5C680C	250 MCM CU	115	13.28	20.55	22.22	61.06	63.76	71.47	9035	508	360				
Q5D680C	350 MCM CU	115	15.72	22.99	24.66	66.33	69.02	76.73	10987	559	435				
Q5E680C	500 MCM CU	115	18.77	26.03	28.17	73.90	76.59	84.30	13870	610	535				
Q5F680C	750 MCM CU	115	23.11	30.63	32.76	88.73	90.16	97.87	19035	686	670				
Q5G680C	1000 MCM CU	115	26.92	34.44	36.57	97.24	98.66	106.37	23721	762	770				
8kV 133% Copper Three Conductor															
Q64680C	2 AWG CU	140	6.81	15.15	16.82	47.65	50.19	56.40	4858	407	165				
Q66680C	1 AWG CU	140	7.59	15.93	17.61	51.10	53.79	60.00	5529	432	185				
Q68680C	1/0 AWG CU	140	8.59	16.92	18.60	53.24	55.93	62.14	6039	458	215				
Q69680C	2/0 AWG CU	140	9.60	17.94	19.62	55.43	58.13	65.84	6844	483	245				
Q6A680C	3/0 AWG CU	140	10.82	19.16	20.84	58.07	60.76	68.47	7656	483	285				
Q6B680C	4/0 AWG CU	140	12.14	20.48	22.16	60.92	63.61	71.32	8548	508	325				
Q6C680C	250 MCM CU	140	13.28	21.88	23.55	63.94	66.63	74.34	9401	534	360				
Q6D680C	350 MCM CU	140	15.72	24.32	25.99	69.21	71.90	79.61	11370	610	435				
Q6E680C	500 MCM CU	140	18.77	27.36	29.50	81.68	83.10	90.81	14864	661	535				
Q6F680C	750 MCM CU	140	23.11	31.96	34.09	91.61	93.03	100.74	19484	712	670				
Q6G680C	1000 MCM CU	140	26.92	35.77	37.90	100.11	101.54	109.25	24203	788	770				

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Inner jacket diameter is measured over the ribs.



3/C TRXLPE Risertek®

15kV
100% | 133%

Product Number	Conductor	Insulation Thickness (mil/s)	Conductor Diameter (mm)		Insulation Diameter (mm)		Inner Jacket Diameter (mm)		Armour Diameter (mm)		Jacket Diameter (mm)		Cable Weight (kg/km)	Minimum Bending Radius (mm)	‡Amperacity (Amps)
			(A)	(B)	(C)	(D)	(E)	(F)			90°C				
15kV 100% Copper Three Conductor															
Q7468ØC	2 AWG CU	175	6.81	16.93	18.60	53.24	55.94	62.15	5555	458	165				
Q7668ØC	1 AWG CU	175	7.59	17.71	19.39	54.95	57.64	65.35	6178	483	185				
Q7868ØC	1/0 AWG CU	175	8.59	18.70	20.38	57.09	59.78	67.49	6703	483	215				
Q7968ØC	2/0 AWG CU	175	9.60	19.72	21.40	59.28	61.97	69.68	7312	508	245				
Q7A68ØC	3/0 AWG CU	175	10.82	20.94	22.62	61.91	64.61	72.32	8134	508	285				
Q7B68ØC	4/0 AWG CU	175	12.14	22.26	23.94	64.77	67.46	75.17	9039	534	325				
Q7C68ØC	250 MCM CU	175	13.28	23.66	25.33	67.78	70.48	78.19	9905	610	360				
Q7D68ØC	350 MCM CU	175	15.72	26.10	28.23	74.04	76.73	84.44	12046	610	435				
Q7E68ØC	500 MCM CU	175	18.77	29.14	31.28	85.52	86.95	94.66	15437	686	535				
Q7F68ØC	750 MCM CU	175	23.11	33.74	35.87	95.45	96.88	104.59	20100	737	670				
15kV 133% Copper Three Conductor															
Q8468ØC	2 AWG CU	220	6.81	19.26	20.93	58.28	60.97	68.68	6365	483	165				
Q8668ØC	1 AWG CU	220	7.59	20.04	21.72	59.98	62.67	70.38	6791	508	185				
Q8868ØC	1/0 AWG CU	220	8.59	21.04	22.71	62.12	64.81	72.52	7328	508	215				
Q8968ØC	2/0 AWG CU	220	9.60	22.05	23.73	64.31	67.01	74.72	7949	534	245				
Q8A68ØC	3/0 AWG CU	220	10.82	23.27	24.95	66.95	69.64	77.35	8786	559	285				
Q8B68ØC	4/0 AWG CU	220	12.14	24.59	26.27	69.80	72.49	80.20	9707	610	325				
Q8C68ØC	250 MCM CU	220	13.28	25.99	27.66	72.82	75.51	83.22	10590	610	360				
Q8D68ØC	350 MCM CU	220	15.72	28.43	30.56	83.97	85.40	93.11	13361	661	435				
Q8E68ØC	500 MCM CU	220	18.77	31.47	33.61	90.56	91.98	99.69	16213	712	535				
Q8F68ØC	750 MCM CU	220	23.11	36.07	38.21	100.49	101.91	109.62	20931	788	670				

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25kV
100% | 133%

Product Number	Conductor	Insulation Thickness (mil/s)	Conductor Diameter (mm)		Insulation Diameter (mm)		Inner Jacket Diameter (mm)		Armour Diameter (mm)		Jacket Diameter (mm)		Cable Weight (kg/km)	Minimum Bending Radius (mm)	†Ampacity (Amps)
			(A)	(B)	(C)	(D)	(E)	(F)	90°C						
25kV 100% Copper Three Conductor															
Q9668ØC	1 AWG CU	260	7.59	22.12	23.79	64.45	67.15	74.85	7359	534	185				
Q9868ØC	1/0 AWG CU	260	8.59	23.11	24.78	66.59	69.28	76.99	7907	559	215				
Q9968ØC	2/0 AWG CU	260	9.60	24.12	25.80	68.79	71.48	79.19	8539	610	245				
Q9A68ØC	3/0 AWG CU	260	10.82	25.34	27.02	71.42	74.11	81.82	9389	610	285				
Q9B68ØC	4/0 AWG CU	260	12.14	26.66	28.80	75.26	77.95	85.66	10475	610	325				
Q9C68ØC	250 MCM CU	260	13.28	28.06	30.19	83.18	84.60	92.31	11969	661	360				
Q9D68ØC	350 MCM CU	260	15.72	30.50	32.63	88.45	89.87	97.58	14041	686	435				
Q9E68ØC	500 MCM CU	260	18.77	33.55	35.68	95.03	96.45	104.16	16925	737	535				
Q9F68ØC	750 MCM CU	260	23.11	38.14	40.28	104.96	106.38	114.09	21692	813	670				
25kV 133% Copper Three Conductor															
QA868ØC	1/0 AWG CU	320	8.59	26.27	28.40	74.41	77.10	84.81	8984	610	215				
QA968ØC	2/0 AWG CU	320	9.60	27.28	29.42	81.51	82.93	90.64	10221	635	245				
QAA68ØC	3/0 AWG CU	320	10.82	28.50	30.64	84.14	85.56	93.27	11104	661	285				
QAB68ØC	4/0 AWG CU	320	12.14	29.82	31.96	86.99	88.41	96.12	12074	686	325				
QAC68ØC	250 MCM CU	320	13.28	31.22	33.35	90.01	91.43	99.14	13010	712	360				
QAD68ØC	350 MCM CU	320	15.72	33.66	35.79	95.28	96.70	104.41	15121	737	435				
QAE68ØC	500 MCM CU	320	18.77	36.71	38.84	101.86	103.28	110.99	18056	788	535				

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Product Number	Conductor	Insulation Thickness (mil/s)	Conductor Diameter (mm)		Insulation Diameter (mm)		Inner Jacket Diameter (mm)		Armour Diameter (mm)		Jacket Diameter (mm)		Cable Weight (kg/km)	Minimum Bending Radius (mm)	‡Ampacity (Amps)
			(A)	(B)	(C)	(D)	(E)	(F)			90°C				
28kV 100% Copper Three Conductor															
QV668ØC	1 AWG CU	280	7.59	23.19	24.86	66.77	69.46	77.17	7661	559	185				
QV868ØC	1/0 AWG CU	280	8.59	24.18	25.85	68.91	71.60	79.31	8215	610	215				
QV968ØC	2/0 AWG CU	280	9.60	25.19	26.87	71.10	73.79	81.50	8852	610	245				
QVA68ØC	3/0 AWG CU	280	10.82	26.41	28.55	74.72	77.41	85.12	9860	610	285				
QVB68ØC	4/0 AWG CU	280	12.14	27.73	29.87	82.48	83.90	91.61	11395	661	325				
QVC68ØC	250 MCM CU	280	13.28	29.13	31.26	85.49	86.92	94.63	12315	686	360				
QVD68ØC	350 MCM CU	280	15.72	31.57	33.70	90.76	92.18	99.89	14401	712	435				
QVE68ØC	500 MCM CU	280	18.77	34.62	36.75	97.34	98.77	106.48	17302	762	535				
28kV 133% Copper Three Conductor															
QB668ØC	1 AWG CU	345	7.59	26.64	28.77	75.21	77.90	85.61	8828	610	185				
QB868ØC	1/0 AWG CU	345	8.59	27.63	29.76	82.25	83.67	91.38	9991	661	215				
QB968ØC	2/0 AWG CU	345	9.60	28.65	30.78	84.45	85.87	93.58	10657	661	245				
QBA68ØC	3/0 AWG CU	345	10.82	29.86	32.00	87.08	88.50	96.21	11549	686	285				
QBB68ØC	4/0 AWG CU	345	12.14	31.19	33.32	89.93	91.36	99.07	12528	712	325				
QBC68ØC	250 MCM CU	345	13.28	32.58	34.72	92.95	94.37	102.08	13474	737	360				
QBD68ØC	350 MCM CU	345	15.72	35.02	37.15	98.22	99.64	107.35	15603	762	435				
QBE68ØC	500 MCM CU	345	18.77	38.07	40.20	104.80	106.22	113.93	18558	813	535				

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35kV
100% | 133%

Product Number	Conductor	Insulation Thickness (mil/s)	Conductor Diameter (mm)		Insulation Shield Diameter (mm)		Inner Jacket Diameter (mm)		Armour Diameter (mm)		Jacket Diameter (mm)		Cable Weight (kg/km)	Minimum Bending Radius (mm)	†Ampacity (Amps)
			(A)	(B)	(C)	(D)	(E)	(F)			90°C				
35kV 100% Copper Three Conductor															
QB668ØC	1 AWG CU	345	7.59	26.64	28.77	75.21	77.90	85.61	8828	610	185				
QB868ØC	1/0 AWG CU	345	8.59	27.63	29.76	82.25	83.67	91.38	9991	661	215				
QB968ØC	2/0 AWG CU	345	9.60	28.65	30.78	84.45	85.87	93.58	10657	661	245				
QBA68ØC	3/0 AWG CU	345	10.82	29.86	32.00	87.08	88.50	96.21	11549	686	285				
QBB68ØC	4/0 AWG CU	345	12.14	31.19	33.32	89.93	91.36	99.07	12528	712	325				
QBC68ØC	250 MCM CU	345	13.28	32.58	34.72	92.95	94.37	102.08	13474	737	360				
QBD68ØC	350 MCM CU	345	15.72	35.02	37.15	98.22	99.64	107.35	15603	762	435				
QBE68ØC	500 MCM CU	345	18.77	38.07	40.20	104.80	106.22	113.93	18558	813	535				
35kV 133% Copper Three Conductor															
QC868ØC	1/0 AWG CU	420	8.59	31.60	33.74	90.83	92.25	99.96	11298	712	215				
QC968ØC	2/0 AWG CU	420	9.60	32.62	34.75	93.03	94.45	102.16	11985	737	245				
QCA68ØC	3/0 AWG CU	420	10.82	33.84	35.97	95.66	97.08	104.79	12902	737	285				
QCB68ØC	4/0 AWG CU	420	12.14	35.16	37.29	98.51	99.94	107.65	13909	762	325				
QCC68ØC	250 MCM CU	420	13.28	36.55	38.69	101.53	102.95	110.66	14883	788	360				

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