



Description

Single copper conductor with a semiconducting conductor shield, high dielectric strength VOLTALENE® TRXLPE insulation, semiconducting insulation shield, helically applied uncoated copper bonding conductor, binder tape, black inner PVC jacket, aluminum interlocking armour (AIA), 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



Design Parameters

Conductor

- Soft drawn, bare, Class B compact or compressed strand 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 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.

Bonding Conductor

- Helically applied soft drawn, bare copper wires covered with a binder tape.

Inner Jacket

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

Armour

- Flexible aluminum interlocking armour (AIA) 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
- No outer jacket
- Aluminum phase conductor and bonding conductor
- Strandseal®
- AG14 Rating

Installations

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



1/C TRXLPE Armortek™

5kV
100% | 133%

Product Number	Conductor	Insulation Thickness (mil)	Conductor Diameter (mm)	Insulation Diameter (mm)	Insulation Shield Diameter (mm)	Inner Jacket Diameter (mm)	Armour Diameter (mm)	Overall Jacket Diameter (mm)	Cable Weight (kg/km)	Equivalent Bonding Conductor Size	Minimum Bending Radius (mm)	† Ampacity (Amps)
			(A)	(B)	(C)	(D)	(E)	(F)				
5kV 100%/133% Copper Single Conductor												
Q416ØZC	6 AWG CU	90	4.30	10.05	11.93	16.33	21.41	23.70	634	8 AWG CU	284	100
Q426ØZC	4 AWG CU	90	5.41	11.20	13.08	18.19	23.27	25.61	824	6 AWG CU	307	145
Q446ØZC	2 AWG CU	90	6.81	12.59	14.47	19.59	25.18	27.51	1047	6 AWG CU	330	190
Q466ØZC	1 AWG CU	90	7.59	13.38	15.26	20.38	25.96	28.30	1223	4 AWG CU	340	225
Q486ØZC	1/0 AWG CU	90	8.59	14.37	16.25	21.37	26.95	29.29	1357	4 AWG CU	351	260
Q496ØZC	2/0 AWG CU	90	9.60	15.39	17.27	22.38	27.97	30.31	1517	4 AWG CU	364	300
Q4A6ØZC	3/0 AWG CU	90	10.82	16.61	18.49	24.13	29.72	32.06	1785	3 AWG CU	385	345
Q4B6ØZC	4/0 AWG CU	90	12.14	17.93	19.81	26.22	31.80	34.14	2085	3 AWG CU	410	400
Q4C6ØZC	250 MCM CU	90	13.28	19.27	21.15	27.56	33.15	35.48	2374	2 AWG CU	426	445
Q4D6ØZC	350 MCM CU	90	15.72	21.71	23.59	30.67	36.26	38.60	3025	1 AWG CU	463	550
Q4E6ØZC	500 MCM CU	90	18.77	24.76	26.64	33.72	39.31	42.10	3960	1/0 AWG CU	505	695
Q4F6ØXC	750 MCM CU	90	24.59	30.77	33.11	41.07	47.42	50.21	5717	2/0 AWG CU	603	900
Q4G6ØXC	1000 MCM CU	90	28.37	34.56	36.90	44.85	51.20	54.00	7028	2/0 AWG CU	648	1075

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1/C TRXLPE Armortek™

8kV

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)		Overall Jacket Diameter (mm)		Cable Weight (kg/km)	Equivalent Bonding Conductor Size	Minimum Bending Radius (mm)	† Ampacity (Amps)	
			(A)	(B)	(C)	(D)	(E)	(F)					90°C						
8kV 100% Copper Single Conductor																			
Q526ØZC	4 AWG CU	115	5.41	12.42	14.30	20.13	25.72	28.06	976	6 AWG CU	337	150							
Q546ØZC	2 AWG CU	115	6.81	13.81	15.69	22.53	28.12	30.45	1203	6 AWG CU	365	195							
Q566ØZC	1 AWG CU	115	7.59	14.60	16.48	23.32	28.90	31.24	1382	4 AWG CU	375	225							
Q586ØZC	1/0 AWG CU	115	8.59	15.59	17.47	24.31	29.89	32.23	1521	4 AWG CU	387	260							
Q596ØZC	2/0 AWG CU	115	9.60	16.61	18.49	25.32	30.91	33.25	1686	4 AWG CU	399	300							
Q5A6ØZC	3/0 AWG CU	115	10.82	17.83	19.71	27.07	32.66	35.00	1962	3 AWG CU	420	345							
Q5B6ØZC	4/0 AWG CU	115	12.14	19.15	21.03	28.40	33.98	36.32	2214	3 AWG CU	436	400							
Q5C6ØZC	250 MCM CU	115	13.28	20.55	22.43	29.80	35.39	37.72	2511	2 AWG CU	453	445							
Q5D6ØZC	350 MCM CU	115	15.72	22.99	24.87	32.91	38.50	41.29	3213	1 AWG CU	496	550							
Q5E6ØZC	500 MCM CU	115	18.77	26.04	28.37	36.42	42.01	44.80	4155	1/0 AWG CU	538	685							
Q5F6ØXC	750 MCM CU	115	24.59	32.11	34.45	44.97	51.32	54.11	6091	2/0 AWG CU	649	885							
Q5G6ØXC	1000 MCM CU	115	28.37	35.90	38.24	48.75	55.10	57.90	7427	2/0 AWG CU	695	1060							
8kV 133% Copper Single Conductor																			
Q646ØZC	2 AWG CU	140	6.81	15.09	16.97	23.81	29.40	31.73	1265	6 AWG CU	381	195							
Q666ØZC	1 AWG CU	140	7.59	15.88	17.76	24.60	30.18	32.52	1446	4 AWG CU	390	225							
Q686ØZC	1/0 AWG CU	140	8.59	16.87	18.75	25.59	31.17	33.51	1587	4 AWG CU	402	260							
Q696ØZC	2/0 AWG CU	140	9.60	17.89	19.77	26.60	32.19	34.53	1754	4 AWG CU	414	300							
Q6A6ØZC	3/0 AWG CU	140	10.82	19.11	20.99	28.35	33.94	36.28	2033	3 AWG CU	435	345							
Q6B6ØZC	4/0 AWG CU	140	12.14	20.43	22.31	29.68	35.26	37.60	2286	3 AWG CU	451	400							
Q6C6ØZC	250 MCM CU	140	13.28	21.83	23.71	31.08	36.67	39.00	2586	2 AWG CU	468	445							
Q6D6ØZC	350 MCM CU	140	15.72	24.27	26.15	34.19	39.78	42.57	3294	1 AWG CU	511	550							
Q6E6ØZC	500 MCM CU	140	18.77	27.32	29.65	37.70	43.29	46.08	4243	1/0 AWG CU	553	685							
Q6F6ØXC	750 MCM CU	140	24.59	33.39	35.73	46.25	52.60	55.39	6197	2/0 AWG CU	665	885							
Q6G6ØXC	1000 MCM CU	140	28.37	37.18	39.52	50.03	56.38	59.18	7541	2/0 AWG CU	710	1060							

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1/2 TRXLPE Armortek™

15kV
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)	Overall Jacket Diameter (mm)	Cable Weight (kg/km)	Equivalent Bonding Conductor Size	Minimum Bending Radius (mm)	† Ampacity (Amps)
		(A)	(B)	(C)	(D)	(E)	(F)				90°C	
15kV 100% Copper Single Conductor												
Q746ØZC	2 AWG CU	175	6.81	16.92	18.80	25.64	31.23	33.56	1359	6 AWG CU	403	195
Q766ØZC	1 AWG CU	175	7.59	17.71	19.59	26.43	32.01	34.35	1543	4 AWG CU	412	225
Q786ØZC	1/0 AWG CU	175	8.59	18.70	20.58	27.42	33.00	35.34	1686	4 AWG CU	424	260
Q796ØZC	2/0 AWG CU	175	9.60	19.72	21.60	28.43	34.02	36.36	1856	4 AWG CU	436	300
Q7A6ØZC	3/0 AWG CU	175	10.82	20.94	22.82	30.19	35.77	38.11	2138	3 AWG CU	457	345
Q7B6ØZC	4/0 AWG CU	175	12.14	22.26	24.14	31.51	37.09	39.43	2395	3 AWG CU	473	400
Q7C6ØZC	250 MCM CU	175	13.28	23.66	25.54	32.91	38.50	41.29	2739	2 AWG CU	495	445
Q7D6ØZC	350 MCM CU	175	15.72	26.10	28.44	36.48	42.07	44.86	3450	1 AWG CU	538	550
Q7E6ØZC	500 MCM CU	175	18.77	29.15	31.48	39.53	45.88	48.67	4501	1/0 AWG CU	584	685
Q7F6ØXC	750 MCM CU	175	24.59	35.22	37.56	48.08	54.43	57.22	6355	2/0 AWG CU	687	885
Q7G6ØXC	1000 MCM CU	175	28.37	39.01	42.21	52.73	59.08	62.48	7885	2/0 AWG CU	750	1060
15kV 133% Copper Single Conductor												
Q846ØZC	2 AWG CU	220	6.81	19.26	21.13	27.97	33.56	35.89	1487	6 AWG CU	431	195
Q866ØZC	1 AWG CU	220	7.59	20.04	21.92	28.76	34.34	36.68	1673	4 AWG CU	440	225
Q886ØZC	1/0 AWG CU	220	8.59	21.03	22.91	29.75	35.34	37.67	1819	4 AWG CU	452	260
Q896ØZC	2/0 AWG CU	220	9.60	22.05	23.93	30.76	36.35	38.69	1992	4 AWG CU	464	300
Q8A6ØZC	3/0 AWG CU	220	10.82	23.27	25.15	32.52	38.10	40.90	2319	3 AWG CU	491	345
Q8B6ØZC	4/0 AWG CU	220	12.14	24.59	26.47	33.84	39.42	42.22	2582	3 AWG CU	507	400
Q8C6ØZC	250 MCM CU	220	13.28	25.99	27.87	35.24	40.83	43.62	2892	2 AWG CU	523	445
Q8D6ØZC	350 MCM CU	220	15.72	28.43	30.77	38.81	45.16	47.96	3738	1 AWG CU	575	550
Q8E6ØZC	500 MCM CU	220	18.77	31.48	33.82	41.86	48.21	51.00	4680	1/0 AWG CU	612	685
Q8F6ØXC	750 MCM CU	220	24.59	37.56	39.89	50.41	56.76	59.55	6562	2/0 AWG CU	715	885
Q8G6ØXC	1000 MCM CU	220	28.37	41.34	44.54	55.06	61.41	64.81	8112	2/0 AWG CU	778	1060

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1/C TRXLPE Armortek™

25kV

100% | 133%

Product Number	Conductor	Insulation Thickness (mil/s)	Dimensions (mm)						Cable Weight (kg/km)	Equivalent Bonding Conductor Size	Minimum Bending Radius (mm)	† Ampacity (Amps)
			(A)	(B)	(C)	(D)	(E)	(F)				
25kV 100% Copper Single Conductor												
Q966ØZC	1 AWG CU	260	7.59	22.11	23.99	30.83	36.42	38.75	1795	4 AWG CU	465	225
Q986ØZC	1/0 AWG CU	260	8.59	23.10	24.98	31.82	37.41	39.74	1944	4 AWG CU	477	260
Q996ØZC	2/0 AWG CU	260	9.60	24.12	26.00	32.83	38.42	41.22	2161	4 AWG CU	495	300
Q9A6ØZC	3/0 AWG CU	260	10.82	25.34	27.22	34.59	40.17	42.97	2453	3 AWG CU	516	345
Q9B6ØZC	4/0 AWG CU	260	12.14	26.66	29.00	36.36	41.95	44.75	2755	3 AWG CU	537	395
Q9C6ØZC	250 MCM CU	260	13.28	28.06	30.40	37.77	43.36	46.15	3070	2 AWG CU	554	440
Q9D6ØZC	350 MCM CU	260	15.72	30.50	32.84	40.88	47.23	50.03	3895	1 AWG CU	600	545
Q9E6ØZC	500 MCM CU	260	18.77	33.55	35.89	45.53	51.88	54.67	5033	1/0 AWG CU	656	680
Q9F6ØXC	750 MCM CU	260	24.59	39.63	42.83	53.34	59.69	63.10	6931	2/0 AWG CU	757	870
Q9G6ØXC	1000 MCM CU	260	28.37	43.41	46.61	57.13	63.48	66.88	8320	2/0 AWG CU	803	1040
25kV 133% Copper Single Conductor												
QA86ØZC	1/0 AWG CU	320	8.59	26.27	28.60	35.44	41.03	43.82	2225	4 AWG CU	526	260
QA96ØZC	2/0 AWG CU	320	9.60	27.28	29.62	36.45	42.04	44.84	2408	4 AWG CU	538	300
QAA6ØZC	3/0 AWG CU	320	10.82	28.50	30.84	38.21	44.56	47.35	2830	3 AWG CU	568	345
QAB6ØZC	4/0 AWG CU	320	12.14	29.82	32.16	39.53	45.88	48.67	3108	3 AWG CU	584	395
QAC6ØZC	250 MCM CU	320	13.28	31.22	33.56	40.93	47.28	50.07	3433	2 AWG CU	601	440
QAD6ØZC	350 MCM CU	320	15.72	33.66	36.00	45.64	51.99	54.79	4334	1 AWG CU	657	545
QAE6ØZC	500 MCM CU	320	18.77	36.71	39.05	48.69	55.04	57.84	5309	1/0 AWG CU	694	680
QAF6ØXC	750 MCM CU	320	24.59	42.79	45.99	56.51	62.86	66.26	7244	2/0 AWG CU	795	870
QAG6ØXC	1000 MCM CU	320	28.37	46.57	49.77	60.29	66.64	70.04	8650	2/0 AWG CU	841	1040

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28kV

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)	Overall Jacket Diameter (mm)	Cable Weight (kg/km)	Equivalent Bonding Conductor Size	Minimum Bending Radius (mm)	† Ampacity (Amps)
		(A)	(B)	(C)	(D)	(E)	(F)				90°C	
28kV 100% Copper Single Conductor												
QV66ØZC	1 AWG CU	280	7.59	23.18	25.06	31.90	37.49	39.82	1860	4 AWG CU	478	225
QV86ØZC	1/0 AWG CU	280	8.59	24.17	26.05	32.89	38.48	41.27	2052	4 AWG CU	495	260
QV96ØZC	2/0 AWG CU	280	9.60	25.19	27.07	33.91	39.49	42.29	2231	4 AWG CU	507	300
QVA6ØZC	3/0 AWG CU	280	10.82	26.41	28.75	36.11	41.70	44.50	2560	3 AWG CU	534	345
QVB6ØZC	4/0 AWG CU	280	12.14	27.73	30.07	37.44	43.02	45.82	2830	3 AWG CU	550	395
QZC6ØZC	250 MCM CU	280	13.28	29.13	31.47	38.84	45.19	47.98	3273	2 AWG CU	576	440
QVD6ØZC	350 MCM CU	280	15.72	31.57	33.91	43.55	49.90	52.70	4159	1 AWG CU	632	545
QVE6ØZC	500 MCM CU	280	18.77	34.62	36.96	46.60	52.95	55.74	5125	1/0 AWG CU	669	680
QVF6ØXC	750 MCM CU	280	24.59	40.70	43.90	54.41	60.76	64.17	7036	2/0 AWG CU	770	870
QVG6ØXC	1000 MCM CU	280	28.37	44.48	47.68	58.20	64.55	67.95	8430	2/0 AWG CU	815	1040
28kV 133% Copper Single Conductor												
QB66ØZC	1 AWG CU	345	7.59	26.64	28.97	35.81	41.40	44.19	2162	4 AWG CU	530	225
QB86ØZC	1/0 AWG CU	345	8.59	27.63	29.96	36.80	42.39	45.18	2319	4 AWG CU	542	260
QB96ØZC	2/0 AWG CU	345	9.60	28.64	30.98	37.81	43.40	46.20	2504	4 AWG CU	554	300
QBA6ØZC	3/0 AWG CU	345	10.82	29.86	32.20	39.57	45.92	48.71	2932	3 AWG CU	585	345
QBB6ØZC	4/0 AWG CU	345	12.14	31.18	33.52	40.89	47.24	50.03	3213	3 AWG CU	600	395
QBC6ØZC	250 MCM CU	345	13.28	32.59	34.92	43.89	50.24	53.04	3723	2 AWG CU	636	440
QBD6ØZC	350 MCM CU	345	15.72	35.02	37.36	47.01	53.36	56.15	4451	1 AWG CU	674	545
QBE6ØZC	500 MCM CU	345	18.77	38.07	40.41	50.05	56.40	59.20	5433	1/0 AWG CU	710	680
QBF6ØXC	750 MCM CU	345	24.59	44.15	47.35	57.87	64.22	67.62	7383	2/0 AWG CU	811	870
QBG6ØXC	1000 MCM CU	345	28.37	47.93	51.13	61.65	68.00	71.41	8797	2/0 AWG CU	857	1040

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1/C TRXLPE Armortek™

35kV

100% | 133%

Product Number	Conductor	Insulation Thickness (mil/s)	Insulation Diameter (mm)						Inner Jacket Diameter (mm)	Armour Diameter (mm)	Overall Jacket Diameter (mm)	Cable Weight (kg/km)	Equivalent Bonding Conductor Size	Minimum Bending Radius (mm)	† Ampacity (Amps)
			(A)	(B)	(C)	(D)	(E)	(F)							
35kV 100% Copper Single Conductor															
QB66ØZC	1 AWG CU	345	7.59	26.64	28.97	35.81	41.40	44.19	2162	4 AWG CU	530	225			
QB86ØZC	1/0 AWG CU	345	8.59	27.63	29.96	36.80	42.39	45.18	2319	4 AWG CU	542	260			
QB96ØZC	2/0 AWG CU	345	9.60	28.64	30.98	37.81	43.40	46.20	2504	4 AWG CU	554	300			
QBA6ØZC	3/0 AWG CU	345	10.82	29.86	32.20	39.57	45.92	48.71	2932	3 AWG CU	585	345			
QBB6ØZC	4/0 AWG CU	345	12.14	31.18	33.52	40.89	47.24	50.03	3213	3 AWG CU	600	395			
QBC6ØZC	250 MCM CU	345	13.28	32.59	34.92	43.89	50.24	53.04	3723	2 AWG CU	636	440			
QBD6ØZC	350 MCM CU	345	15.72	35.02	37.36	47.01	53.36	56.15	4451	1 AWG CU	674	545			
QBE6ØZC	500 MCM CU	345	18.77	38.07	40.41	50.05	56.40	59.20	5433	1/0 AWG CU	710	680			
QBF6ØXC	750 MCM CU	345	24.59	44.15	47.35	57.87	64.22	67.62	7383	2/0 AWG CU	811	870			
QBG6ØXC	1000 MCM CU	345	28.37	47.93	51.13	61.65	68.00	71.41	8797	2/0 AWG CU	857	1040			
35kV 133% Copper Single Conductor															
QC86ØZC	1/0 AWG CU	420	8.59	31.60	33.94	40.77	47.12	49.92	2741	4 AWG CU	599	260			
QC96ØZC	2/0 AWG CU	420	9.60	32.62	34.95	41.79	48.14	50.93	2934	4 AWG CU	611	300			
QCA6ØZC	3/0 AWG CU	420	10.82	33.83	36.17	45.14	51.49	54.28	3433	3 AWG CU	651	345			
QCB6ØZC	4/0 AWG CU	420	12.14	35.16	37.49	46.46	52.81	55.60	3726	3 AWG CU	667	395			
QCC6ØZC	250 MCM CU	420	13.28	36.56	38.90	47.86	54.21	57.01	4067	2 AWG CU	684	440			
QCD6ØZC	350 MCM CU	420	15.72	39.00	42.20	51.84	58.19	61.59	4983	1 AWG CU	739	545			
QCE6ØZC	500 MCM CU	420	18.77	42.05	45.25	54.89	61.24	64.64	5991	1/0 AWG CU	776	680			
QCF6ØXC	750 MCM CU	420	24.59	48.12	51.32	61.84	68.19	71.59	7805	2/0 AWG CU	859	870			
QCG6ØXC	1000 MCM CU	420	28.37	51.91	55.11	65.62	71.97	75.38	9240	2/0 AWG CU	905	1040			

Information Subject to Change without Notice.

PRODUCT NOTES:

†Ampacities are based on the following:

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

Isolated in Air or Uncovered Cable Tray: Three single cables, spaced one cable diameter (minimum) horizontally, 90°C conductor temperature, 40°C ambient temperature, and shields short-circuited.



1-800-845-8507 (US)
1-800-263-4405 (West-CAN)
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