



Description

Multiple copper conductors with a high dielectric strength XLPE (RW90) insulation, assembled with a copper ground and fillers per CSA, binder tape, black inner PVC jacket, aluminum interlocking armour (AIA), and an overall PVC Jacket.

CSA	CSA C22.2 No. 131	FT4 -40°C Sunlight Resistant AG14
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 Wet or Dry Operation.

Design Parameters

Conductor

- Soft drawn, bare, Class B compact or compressed stranded copper per ASTM.

Insulation

- High dielectric strength crosslinked polyethylene (XLPE) insulation, exhibiting an optimum balance of mechanical and electrical properties.

Assembly

- Conductors cabled together with an uninsulated bonding conductor and where necessary, non-hygroscopic fillers. A binder tape may be used over the assembly, depending on size.

Inner Jacket

- Sunlight resistant polyvinyl chloride (PVC) jacket tightly applied over the cable core.

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

- Colored outer jacket
- No outer jacket
- Aluminum phase conductor and bonding conductor
- Galvanised steel interlocking armour (GSIA)

Installations

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



Multiconductor TECK90

1kV

Product Number	Conductor	Insulation Thickness (mils)	Inner Jacket Thickness (mils)	Conductor Diameter (mm)					Overall Diameter (mm)	Cable Weight (kg/km)	Boring Conductor Size	† Ampacity (Amps)		** Inductive Reactance (Ω/km)
				(A)	(B)	(C)	(D)	(E)				90°C	90°C	
1kV Copper Two Conductor														
QYZ228C	14 AWG CU	45	45	1.80	4.32	10.92	15.49	17.78	315	14 AWG CU	15	0.14		
▲ QYZ229C	12 AWG CU	45	45	2.26	4.57	11.94	16.51	18.80	359	14 AWG CU	20	0.13		
▲ QYZ230C	10 AWG CU	45	45	2.87	5.33	12.95	17.53	20.07	433	12 AWG CU	30	0.12		
▲ Q1Ø76ØC	8 AWG CU	45	60	3.40	5.84	14.99	19.56	21.84	562	10 AWG CU	45	0.12		
▲ Q1176ØC	6 AWG CU	60	60	4.29	7.37	18.29	23.37	25.65	816	8 AWG CU	65	0.12		
Q1276ØC	4 AWG CU	60	60	5.41	8.64	20.57	26.16	28.45	1094	8 AWG CU	85	0.11		
QYZ231C	3 AWG CU	60	80	6.07	9.14	22.86	28.45	30.73	1343	6 AWG CU	105	0.11		
Q1476ØC	2 AWG CU	60	80	6.81	9.91	24.38	29.97	32.26	1523	6 AWG CU	120	0.11		
Q1676ØC	1 AWG CU	80	80	7.59	11.94	28.19	33.78	36.07	1847	6 AWG CU	140	0.11		
Q1876ØC	1/0 AWG CU	80	80	8.59	12.95	30.48	36.07	38.35	2142	6 AWG CU	155	0.11		
Q1976ØC	2/0 AWG CU	80	80	9.60	13.97	32.51	38.10	40.39	2470	6 AWG CU	185	0.10		
Q1A76ØC	3/0 AWG CU	80	80	10.82	14.99	34.80	40.39	43.18	3014	4 AWG CU	210	0.10		
Q1B76ØC	4/0 AWG CU	80	80	12.14	16.51	37.59	43.18	45.97	3517	4 AWG CU	235	0.10		
Q1C76ØC	250 MCM CU	90	80	13.28	18.03	40.89	47.24	50.04	4163	4 AWG CU	265	0.10		
QYZ232C	300 MCM CU	90	110	14.58	19.30	45.21	51.56	54.36	4942	4 AWG CU	295	0.10		
Q1D76ØC	350 MCM CU	90	110	15.72	20.57	47.50	53.85	56.64	5578	3 AWG CU	325	0.10		
QYZ233C	400 MCM CU	90	110	16.87	21.59	49.78	56.13	58.93	6164	3 AWG CU	345	0.10		
Q1E76ØC	500 MCM CU	90	110	18.77	23.62	53.59	59.94	63.25	7381	3 AWG CU	395	0.09		
QYZ234C	600 MCM CU	90	110	21.78	26.67	59.94	66.29	69.85	8713	2 AWG CU	455	0.09		
QYZ235C	700 MCM CU	90	110	23.51	28.45	63.50	69.85	73.15	9848	2 AWG CU	490	0.09		
Q1F76ØC	750 MCM CU	90	110	24.34	29.46	65.28	71.63	74.93	10405	2 AWG CU	500	0.09		
QYZ236C	800 MCM CU	90	110	25.15	30.23	66.80	73.15	76.45	11046	1 AWG CU	515	0.09		
QYZ237C	900 MCM CU	90	110	26.68	31.75	69.85	76.20	79.76	12176	1 AWG CU	555	0.09		
Q1G76ØC	1000 MCM CU	90	140	28.09	33.27	74.42	80.77	84.58	13661	1 AWG CU	585	0.09		

Information Subject to Change without Notice.

PRODUCT NOTES:

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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..

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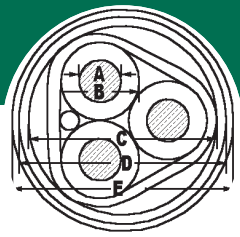
Rule 12-2210 of the Canadian Electrical Code, Part 1, for installation under an ambient temperature of 30°C in air or ventilated tray, with maintained spacing of at least one cable diameter from adjacent cables and 90°C conductor temperature.

**Increase value by approximately 15% for steel armoured cables.



1-800-845-8507 (US)
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Multiconductor TECK90

1kV

Product Number	Conductor	Insulation Thickness (mils)	Inner Jacket Thickness (mils)	Conductor Diameter (mm)					Cable Weight (kg/km)	Bonding Conductor Size	† Ampacity (Amps)		** Inductive Reactance (Ω/km)
				(A)	(B)	(C)	(D)	(E)			90°C	90°C	
1kV Copper Three Conductor													
▲ QYZ238C	14 AWG CU	45	45	1.80	4.32	11.68	16.26	18.54	358	14 AWG CU	15	0.14	
▲ QYZ239C	12 AWG CU	45	45	2.26	4.57	12.70	17.27	19.56	416	14 AWG CU	20	0.13	
▲ QYZ240C	10 AWG CU	45	60	2.87	5.33	14.73	19.30	21.59	545	12 AWG CU	30	0.12	
▲ Q1Ø61ØC	8 AWG CU	45	60	3.40	5.84	15.75	20.83	23.11	689	10 AWG CU	45	0.12	
▲ Q1161ØC	6 AWG CU	60	60	4.29	7.37	19.30	24.89	27.43	1040	8 AWG CU	65	0.12	
▲ Q1261ØC	4 AWG CU	60	80	5.41	8.64	22.86	28.45	30.73	1395	8 AWG CU	85	0.11	
▲ QYZ241C	3 AWG CU	60	80	6.07	9.14	24.13	29.72	32.26	1637	6 AWG CU	105	0.11	
▲ Q1461ØC	2 AWG CU	60	80	6.81	9.91	25.91	31.50	33.78	1881	6 AWG CU	120	0.11	
▲ Q1661ØC	1 AWG CU	80	80	7.59	11.94	29.97	35.56	37.85	2291	6 AWG CU	140	0.11	
▲ Q1861ØC	1/0 AWG CU	80	80	8.59	12.95	32.00	37.59	39.88	2685	6 AWG CU	155	0.11	
▲ Q1961ØC	2/0 AWG CU	80	80	9.60	13.97	34.29	39.88	42.67	3201	6 AWG CU	185	0.10	
▲ Q1A61ØC	3/0 AWG CU	80	80	10.82	14.99	36.83	42.42	45.21	3838	4 AWG CU	210	0.10	
▲ Q1B61ØC	4/0 AWG CU	80	80	12.14	16.51	39.62	45.97	48.77	4707	4 AWG CU	235	0.10	
▲ Q1C61ØC	250 MCM CU	90	110	13.28	18.03	44.96	51.31	54.10	5594	4 AWG CU	265	0.10	
▲ QYZ242C	300 MCM CU	90	110	14.58	19.30	47.75	54.10	56.90	6428	4 AWG CU	295	0.10	
▲ Q1D61ØC	350 MCM CU	90	110	15.72	20.57	50.04	56.39	59.18	7283	3 AWG CU	325	0.10	
QYZ243C	400 MCM CU	90	110	16.87	21.59	52.58	58.93	62.23	8198	3 AWG CU	345	0.10	
▲ Q1E61ØC	500 MCM CU	90	110	18.77	23.62	56.64	62.99	66.55	9795	3 AWG CU	395	0.09	
QYZ244C	600 MCM CU	90	110	21.78	26.67	63.75	70.10	73.41	11592	2 AWG CU	455	0.09	
QYZ245C	700 MCM CU	90	110	23.51	28.45	67.56	73.91	77.22	13175	2 AWG CU	490	0.09	
▲ Q1F61ØC	750 MCM CU	90	140	24.34	29.46	69.34	75.69	78.99	13969	2 AWG CU	500	0.09	
QYZ246C	800 MCM CU	90	140	25.15	30.23	72.64	78.99	83.06	15216	1 AWG CU	515	0.09	
QYZ247C	900 MCM CU	90	140	26.68	31.75	75.95	82.30	86.36	16809	1 AWG CU	555	0.09	
Q1G61ØC	1000 MCM CU	90	140	28.09	33.27	79.25	85.60	89.41	18375	1 AWG CU	585	0.09	

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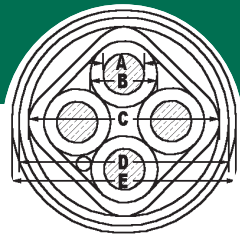
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				(A)	(B)	(C)	(D)	(E)	90°C					90°C		
1kV Copper Four Conductor																
QYZ248C	14 AWG CU	45	45	1.80	4.32	12.70	17.27	19.56	407	14 AWG CU	12	0.14				
QYZ249C	12 AWG CU	45	60	2.26	4.57	14.48	19.05	21.59	514	14 AWG CU	16	0.13				
QYZ250C	10 AWG CU	45	60	2.87	5.33	16.00	21.08	23.37	652	12 AWG CU	24	0.12				
▲ Q10620C	8 AWG CU	45	60	3.40	5.84	17.78	22.86	25.15	823	10 AWG CU	36	0.12				
▲ Q11620C	6 AWG CU	60	60	4.29	7.37	21.84	27.43	29.97	1236	8 AWG CU	52	0.12				
▲ Q12620C	4 AWG CU	60	80	5.41	8.64	25.15	30.73	33.02	1686	8 AWG CU	68	0.11				
▲ QYZ251C	3 AWG CU	60	80	6.07	9.14	27.43	33.02	35.31	2015	6 AWG CU	84	0.11				
▲ Q14620C	2 AWG CU	60	80	6.81	9.91	28.96	34.54	36.83	2323	6 AWG CU	96	0.11				
▲ Q16620C	1 AWG CU	80	80	7.59	11.94	33.02	38.61	40.89	2828	6 AWG CU	112	0.11				
▲ Q18620C	1/0 AWG CU	80	80	8.59	12.95	35.31	40.89	43.69	3367	6 AWG CU	124	0.11				
▲ Q19620C	2/0 AWG CU	80	80	9.60	13.97	37.85	43.43	46.23	3972	6 AWG CU	148	0.10				
▲ Q1A620C	3/0 AWG CU	80	80	10.82	14.99	40.89	47.24	50.04	4952	4 AWG CU	168	0.10				
▲ Q1B620C	4/0 AWG CU	80	110	12.14	16.51	45.47	51.82	54.61	6082	4 AWG CU	188	0.10				
▲ Q1C620C	250 MCM CU	90	110	13.28	18.03	49.53	55.88	58.67	7027	4 AWG CU	212	0.10				
QYZ252C	300 MCM CU	90	110	14.58	19.30	52.58	58.93	62.48	8202	4 AWG CU	236	0.10				
▲ Q1D620C	350 MCM CU	90	110	15.72	20.57	55.37	61.72	65.28	9314	3 AWG CU	260	0.10				
QYZ253C	400 MCM CU	90	110	16.87	21.59	58.17	64.52	68.07	10375	3 AWG CU	276	0.10				
▲ Q1E620C	500 MCM CU	90	110	18.77	23.62	62.74	69.09	72.64	12476	3 AWG CU	316	0.09				
QYZ254C	600 MCM CU	90	140	21.78	26.67	72.39	78.74	82.55	15188	2 AWG CU	364	0.09				
QYZ255C	700 MCM CU	90	140	23.51	28.45	76.45	82.80	86.87	17293	2 AWG CU	392	0.09				
Q1F620C	750 MCM CU	90	140	24.34	29.46	78.49	84.84	88.90	18330	2 AWG CU	400	0.09				
QYZ256C	800 MCM CU	90	140	25.15	30.23	80.52	86.87	90.93	19464	1 AWG CU	412	0.09				
QYZ257C	900 MCM CU	90	140	26.68	31.75	84.33	90.68	94.49	21524	1 AWG CU	444	0.09				
Q1G620C	1000 MCM CU	90	140	28.09	33.27	87.63	93.98	98.04	23601	1 AWG CU	468	0.09				

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