

Description

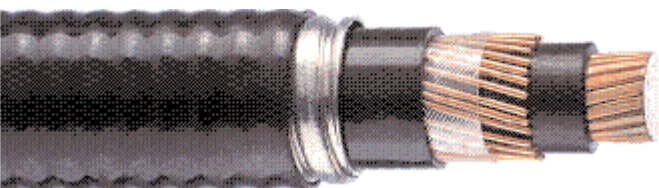
Single copper conductor cable with high dielectric strength XLPE (RW90) insulation, helically applied uncoated copper bonding conductor, binder tape, black inner PVC jacket, aluminum interlocking armour (AIA), and an overall PVC Jacket.

Specifications

Ratings

CSA	CSA C22.2 No. 131	FT4 -40°C Sunlight Resistant 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.

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

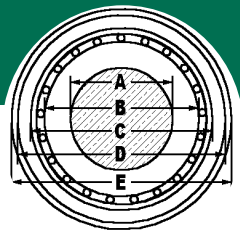
- Low-temperature, sunlight-resistant polyvinyl chloride (PVC) jacket applied over the armour.

Options

- Colored outer jacket
- No outer jacket
- Aluminum phase conductor and bonding conductor

Installations

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



TECK90

1kV

Product Number	Conductor	Insulation Thickness (mils)	Inner Jacket Thickness (mils)	Conductor Diameter (mm)		Insulation Diameter (mm)		Armour Diameter (mm)		Overall Diameter (mm)	Cable Weight (kg/km)	Bonding Conductor Size		Inductive Reactance (Ω/km)
				(A)	(B)	(C)	(D)	(E)	90°C			90°C		
1kV Copper Single Conductor														
Q116ØØC	6 AWG CU	60	30	4.29	7.37	11.94	16.51	18.80	468	8 AWG CU	100	0.26		
Q126ØØC	4 AWG CU	60	30	5.41	8.64	12.95	17.53	19.81	609	6 AWG CU	135	0.24		
QYZØ74C	3 AWG CU	60	30	6.07	9.14	13.72	18.29	20.57	672	6 AWG CU	155	0.24		
Q146ØØC	2 AWG CU	60	30	6.81	9.91	14.22	18.80	21.08	751	6 AWG CU	180	0.23		
Q166ØØC	1 AWG CU	80	45	7.59	11.94	17.02	22.10	24.38	1006	4 AWG CU	210	0.23		
Q186ØØC	1/0 AWG CU	80	45	8.59	12.95	18.03	23.11	25.40	1131	4 AWG CU	245	0.23		
Q196ØØC	2/0 AWG CU	80	45	9.60	13.97	19.05	24.13	26.42	1283	4 AWG CU	285	0.22		
Q1A6ØØC	3/0 AWG CU	80	45	10.82	14.99	20.83	26.16	28.70	1606	3 AWG CU	330	0.22		
Q1B6ØØC	4/0 AWG CU	80	45	12.14	16.51	22.10	27.69	29.97	1844	3 AWG CU	385	0.21		
Q1C6ØØC	250 MCM CU	90	60	13.28	18.03	24.38	29.97	32.26	2192	2 AWG CU	425	0.21		
QYZØ75C	300 MCM CU	90	60	14.58	19.30	25.65	31.50	33.78	2461	2 AWG CU	480	0.21		
▲ Q1D6ØØC	350 MCM CU	90	60	15.72	20.57	27.69	33.27	35.56	2830	1 AWG CU	530	0.21		
QYZØ76C	400 MCM CU	90	60	16.87	21.59	28.70	34.29	36.58	3094	1 AWG CU	575	0.21		
▲ Q1E6ØØC	500 MCM CU	90	60	18.77	23.62	30.73	36.32	38.61	3707	1/0 AWG CU	660	0.20		
QYZØ77C	600 MCM CU	90	60	22.00	26.67	33.78	39.37	41.91	4268	1/0 AWG CU	740	0.20		
QYZØ78C	700 MCM CU	90	60	23.75	28.45	36.58	42.16	44.45	4950	2/0 AWG CU	815	0.19		
▲ Q1F6ØØC	750 MCM CU	90	60	24.59	29.46	37.34	42.93	45.21	5205	2/0 AWG CU	845	0.19		
QYZØ79C	800 MCM CU	90	60	25.40	30.23	38.10	44.45	47.24	5629	2/0 AWG CU	880	0.19		
QYZØ8ØC	900 MCM CU	90	60	26.95	31.75	39.62	45.97	48.77	6141	2/0 AWG CU	940	0.19		
▲ Q1G6ØØC	1000 MCM CU	90	60	28.37	33.27	41.15	47.50	50.29	6649	2/0 AWG CU	1000	0.19		

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.

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



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