

600 Volt USEI90

Low Voltage Utility Cables



Description

A twisted assembly, consisting of multiple aluminum phase conductors and one neutral conductor, each insulated with a low temperature, moisture resistant cross-linked polyethylene (XLPE) insulation that is formulated for a balance of flexibility and mechanical toughness, and a PVC jacket.

Specifications

CSA- CSA C22.2 No. 52

Ratings

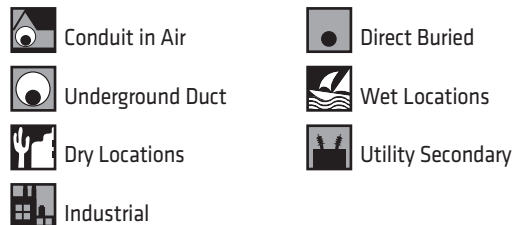
-40°C
FT1
Sunlight Resistant

For 90°C wet or dry operation.

Options

- Colored jacket
- Copper or ACM conductors
- Polyethylene-insulated USEI 75

Installation



Design Parameters

CONDUCTOR: Multiple, Class B Compact, aluminum alloy 1350 per ASTM.

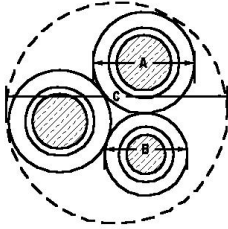
INSULATION: High dielectric strength low temperature cross-linked polyethylene (XLPE) insulation, exhibiting an optimum balance of mechanical and electrical properties to assure extended cable life.

JACKET: Low-temperature appropriately colored polyvinyl chloride (PVC) jacket is extruded over each individual cable.

ASSEMBLY: Full or reduced neutral conductor, insulated and jacketed, class compact concentric strand aluminum alloy 1350 per ASTM, twisted together with the phase conductors.

600 Volt USE190

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Product Number	Phase Conductors	Neutral Conductor	Insulation Thickness (mils)		Jacket Thickness (mils)		Approximate Diameter (mm)			Cable Weight (kg/km)	† Ampacity (Amps)
			Phase	Neutral	Phase	Neutral	Phase (A)	Neutral (B)	Overall (C)		
600 Volt Aluminum Three Conductor											
QORLROC	2-1/C 2/0 AWG AL	2/0 AWG AL	55	55	45	45	14.94	14.94	32.26	909	150
QOSLQYC	2-1/C 3/0 AWG AL	1/0 AWG AL	55	55	45	45	16.15	13.92	34.90	980	175
QOSLSOC	2-1/C 3/0 AWG AL	3/0 AWG AL	55	55	45	45	16.15	16.15	34.90	1089	175
QOTLRYC	2-1/C 4/0 AWG AL	2/0 AWG AL	55	55	45	45	17.48	14.94	37.74	1176	205
QOTLT0C	2-1/C 4/0 AWG AL	4/0 AWG AL	55	55	45	45	17.48	17.48	37.74	1311	205
QOULSYC	2-1/C 250 MCM AL	3/0 AWG AL	65	55	65	45	20.32	16.15	43.94	1488	230
QOULU0C	2-1/C 250 MCM AL	250 MCM AL	65	65	65	65	20.32	20.32	43.94	1687	230
QOVLUYC	2-1/C 350 MCM AL	250 MCM AL	65	65	65	65	22.73	20.29	49.10	2028	280
QOVLV0C	2-1/C 350 MCM AL	350 MCM AL	65	65	65	65	22.73	22.73	49.10	2199	280
QOWLVC	2-1/C 500 MCM AL	350 MCM AL	65	65	65	65	25.81	22.73	55.75	2695	350
QOWLW0C	2-1/C 500 MCM AL	500 MCM AL	65	65	65	65	25.81	25.81	55.75	2945	350

PRODUCT NOTES:

† Ampacities are based on the following:

The above dimensions are approximate and subject to normal manufacturing tolerances.

Canadian Electrical Code, Part 1, Rule 4-004, Subrule (2)(b), as specified in Table 4, 2- or 3-conductor cable, 85-90°C conductor temperature, 30°C ambient temperature.

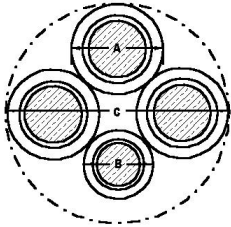
All metric (SI) dimensions are derived from a soft conversion.

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			Phase	Neutral	Phase	Neutral	Phase (A)	Neutral (B)	Overall (C)		
600 Volt Aluminum Four Conductor											
Q0MMKYC	3-1/C 2 AWG AL	4 AWG AL	45	45	30	30	10.87	9.47	23.47	578	100
Q0QMMYC	3-1/C 1/0 AWG AL	2 AWG AL	55	45	45	30	13.92	10.87	30.07	920	135
Q0TMRYC	3-1/C 4/0 AWG AL	2/0 AWG AL	55	55	45	45	17.48	14.94	37.74	1614	205
Q0TMT0C	3-1/C 4/0 AWG AL	4/0 AWG AL	55	55	45	45	17.48	17.48	37.74	1750	205

PRODUCT NOTES:

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