

600 Volt USEB90

Low Voltage Utility Cables



Description

Three conductor cable with two aluminum phase conductors insulated with a low temperature, moisture resistant cross-linked polyethylene (XLPE) insulation that is formulated for a balance of flexibility and mechanical toughness, in a parallel assembly, a concentrically applied uninsulated neutral conductor, binder tape, and an overall PVC jacket.

Specifications

CSA- CSA C22.2 No. 52

Ratings


-40°C
 FT1
 Sunlight Resistant

For 90°C Wet or Dry Operation.

Options

- Colored insulation
- Colored jacket
- Copper or ACM conductors
- 4/C USEB 90

Installation

- | | |
|--|---|
|  Conduit in Air |  Direct Buried |
|  Underground Duct |  Wet Locations |
|  Dry Locations |  Utility Secondary |
|  Industrial | |

Design Parameters

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

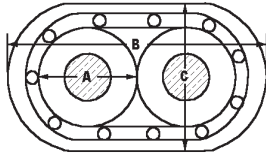
INSULATION: High dielectric strength low temperature cross-linked polyethylene (XLPE) insulation, exhibiting an optimum balance of mechanical & electrical properties to assure extended cable life.

ASSEMBLY: Full or reduced copper neutral conductor helically applied over the paralleled phase conductors. A binder tape is applied over the neutral conductor.

JACKET: Black low-temperature polyvinyl chloride (PVC) is extruded over the assembly.

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Product Number	Phase Conductor	Insulation Thickness (mils)	Insulation Diameter (mm)	Major Dimension (mm)	Minor Dimension (mm)	Cable Weight (kg/km)	Neutral Configuration	Reduced or Full Neutral	† Ampacity (Amps)
			(A)	(B)	(C)		Number of Wires & Size (AWG)		
600 Volt Aluminum Two Conductor									
Q0J94YC	6 AWG AL	45	6.68	19.30	12.62	268	7-#18	Reduced	55
Q0J940C	6 AWG AL	45	6.68	19.30	12.62	304	11-#18	Full	55
Q0K94YC	4 AWG AL	45	7.80	22.56	14.76	402	11-#18	Reduced	75
Q0K940C	4 AWG AL	45	7.80	22.56	14.76	449	17-#18	Full	75
QZ5568C	3 AWG AL	45	8.46	24.36	15.90	476	9-#16	Reduced	85
QZ5589C	3 AWG AL	45	8.46	24.36	15.90	525	13-#16	Full	85
Q0M94YC	2 AWG AL	45	9.19	25.88	16.69	557	11-#16	Reduced	100
Q0M940C	2 AWG AL	45	9.19	25.88	16.69	630	17-#16	Full	100
Q0O94YC	1 AWG AL	55	10.54	28.58	18.03	669	13-#16	Reduced	115
Q0O940C	1 AWG AL	55	10.54	28.58	18.03	767	21-#16	Full	115
Q0Q94YC	1/0 AWG AL	55	11.48	30.45	18.97	801	17-#16	Reduced	135
Q0Q940C	1/0 AWG AL	55	11.48	30.45	18.97	910	26-#16	Full	135
Q0R94YC	2/0 AWG AL	55	12.50	32.49	19.99	958	22-#16	Reduced	150
Q0R940C	2/0 AWG AL	55	12.50	33.15	20.65	1108	21-#14	Full	150
Q0S94YC	3/0 AWG AL	55	13.72	34.93	21.21	1135	26-#16	Reduced	175
Q0S940C	3/0 AWG AL	55	13.72	35.59	21.87	1330	26-#14	Full	175
Q0T94YC	4/0 AWG AL	55	15.04	38.23	23.19	1386	21-#14	Reduced	205
Q0T940C	4/0 AWG AL	55	15.04	39.12	24.08	1642	21-#12	Full	205
Q0U94YC	250 MCM AL	65	16.79	41.73	24.94	1653	26-#14	Reduced	230
Q0U940C	250 MCM AL	65	16.79	42.62	25.83	1967	26-#12	Full	230
QZ5569C	300 MCM AL	65	18.08	46.74	28.65	2102	21-#12	Reduced	260
QZ5590C	300 MCM AL	65	18.08	47.80	29.72	2501	21-#10	Full	260
Q0V94YC	350 MCM AL	65	19.23	49.02	29.79	2421	26-#12	Reduced	280
Q0V940C	350 MCM AL	65	19.23	50.09	30.86	2861	25-#10	Full	280

PRODUCT NOTES:

^S 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

† Ampacities are based on the following:

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.

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