

600 Volt Multiconductor ACWU90

Low Voltage Building Wires



Description

Multiple aluminum (ACM) conductors with a low temperature, moisture resistant cross-linked polyethylene (XLPE) insulation and a bare aluminum bonding conductor. Assembly covered with separator tape, interlocked aluminum armour, and overall PVC jacket.

Specifications

CSA- CSA C22.2 No. 51

CSA- CSA C22.2 No. 174

For 90°C Wet or Dry Operation.

Ratings

-40°C

FT4

AG14

Sunlight Resistant

HL

Options

- Galvanized steel interlocking armour (GSIA)
- Copper phase and neutral conductors
- Colored jacket

Design Parameters

CONDUCTOR: Multiple, Class B Compressed or Compact concentric strand, aluminum (ACM), 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.

NEUTRAL CONDUCTOR: Class B neutral conductor stranded bare aluminum is included in the cable assembly.

ASSEMBLY: Conductors cabled together with an uninsulated, Class B strand aluminum neutral conductor. A separator tape will be used over the assembly.

ARMOUR: Flexible interlocking aluminum alloy applied over the separator tape for mechanical protection.

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

Installation



In Cable Tray



Direct Buried



Isolated in Air



Dry Locations



Conduit in Air



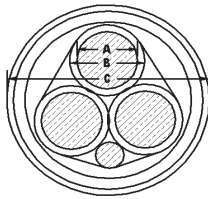
Underground Duct



Wet Locations

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Product Number	Conductor	Insulation Thickness (mils)	Bonding Conductor Size	Conductor Diameter (mm)	Insulation Diameter (mm)	Armor Diameter (mm)	Jacket Diameter (mm)	Cable Weight (kg/km)	† Ampacity (Amps)
				(A)	(B)	(C)	(D)		Raceway
600 Volt Aluminum Three Conductor									
§ Q0J720C	6 AWG AL	30	8 AWG	4.29	5.92	18.67	21.21	416	55
§ Q0K720C	4 AWG AL	40	6 AWG	5.41	7.54	22.28	24.82	568	75
§ Q0M720C	2 AWG AL	40	6 AWG	6.81	8.94	24.64	27.18	720	100
§ Q0O720C	1 AWG AL	50	4 AWG	7.65	10.29	27.99	30.53	890	115
§ Q0Q720C	1/0 AWG AL	50	4 AWG	8.59	11.23	29.59	32.13	1015	135
§ Q0R720C	2/0 AWG AL	50	4 AWG	9.60	12.24	31.88	34.42	1181	150
§ Q0S720C	3/0 AWG AL	50	4 AWG	10.82	13.46	34.52	36.83	1378	175
§ Q0T720C	4/0 AWG AL	50	4 AWG	12.14	14.78	37.36	39.90	1618	205
§ Q0U720C	250 MCM AL	60	2 AWG	13.28	16.43	41.71	44.75	2049	230
§ Q0V720C	350 MCM AL	60	2 AWG	15.72	18.87	47.63	50.67	2643	280
§ Q0W720C	500 MCM AL	60	1 AWG	18.80	21.95	54.25	57.30	3463	350
§ Q0X720C	750 MCM AL	60	1/0 AWG	23.11	26.26	63.58	66.62	4826	435

PRODUCT NOTES:

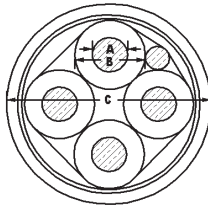
§ Items are Prysmian authorized stock.
The above dimensions are approximate and subject to normal manufacturing tolerances.
All metric (SI) dimensions are derived from a soft conversion.

† Ampacities are based on the following:

Raceway (Tables 4 of CEC C22.1): Multiple conductors, 90°C conductor temperature, and 30°C ambient temperature.

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				(A)	(B)	(C)	(D)		Raceway
600 Volt Aluminum Four Conductor									
§ Q0M730C	2 AWG AL	40	6 AWG	6.81	8.94	27.56	30.10	878	100
§ Q0O730C	1 AWG AL	50	4 AWG	7.65	10.29	31.47	34.01	1097	115
§ Q0Q730C	1/0 AWG AL	50	4 AWG	8.59	11.23	33.38	35.92	1261	135
§ Q0R730C	2/0 AWG AL	50	4 AWG	9.60	12.24	35.05	37.59	1455	150
§ Q0S730C	3/0 AWG AL	50	4 AWG	10.82	13.46	38.02	40.56	1710	175
§ Q0T730C	4/0 AWG AL	50	4 AWG	12.14	14.78	42.62	45.67	2204	205
§ Q0U730C	250 MCM AL	60	2 AWG	13.28	16.43	46.63	49.68	2591	230
§ Q0V730C	350 MCM AL	60	2 AWG	15.72	18.87	52.53	55.58	3307	280
§ Q0W730C	500 MCM AL	60	1 AWG	18.80	21.95	59.97	63.02	4366	350
§ Q0X730C	750 MCM AL	60	1/0 AWG	23.11	26.26	70.41	73.46	6140	435

PRODUCT NOTES:

§ 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:

Raceway (Tables 4 of CEC C22.1): Multiple conductors, 90°C conductor temperature, and 30°C ambient temperature (assuming the fourth conductor is the neutral of a balanced 3 phase 4 wire system).