

600 Volt RW90

Low Voltage Building Wires



Description

Single copper or aluminum (ACM) conductor with a low temperature, moisture resistant cross-linked polyethylene (XLPE) insulation.

Specifications

CSA- CSA C22.2 No. 38

Ratings

-40°C

For 90°C Wet or Dry Operation.

Options

- Colored insulation
- PVC jacket for FT1 rating
- Multiconductor (parallel or twisted)
- 1kV-rated product
- SR per CSA

Design Parameters

CONDUCTOR: Single Solid, Class B Compressed or Compact concentric strand, copper or 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.

Installation



Conduit in Air



Underground Duct



Isolated in Air



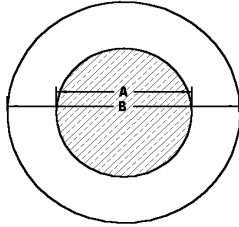
Wet Locations



Dry Locations

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Product Number	Conductor	Insulation Thickness (mils)	Conductor Diameter (mm)		Insulation Diameter (mm)	Cable Weight (kg/km)	† Ampacity (Amps)	
			(A)	(B)			In free Air	Raceway
600 Volt Copper								
§ QYZ011C	14 AWG CU	30	1.80	3.56	25	35	25	
§ QYZ012C	12 AWG CU	30	2.26	3.81	38	40	30	
§ QYZ013C	10 AWG CU	30	2.87	4.57	57	55	40	
§ Q00850C	8 AWG CU	45	3.40	5.84	91	80	55	
§ Q01850C	6 AWG CU	45	4.29	6.60	139	105	75	
§ Q02850C	4 AWG CU	45	5.41	7.87	213	140	95	
§ QYZ014C	3 AWG CU	45	6.07	8.38	265	165	115	
§ Q04850C	2 AWG CU	45	6.81	9.14	331	190	130	
§ Q06850C	1 AWG CU	55	7.59	10.41	420	220	145	
§ Q07850C	1/0 AWG CU	55	8.59	11.43	526	260	170	
§ Q09850C	2/0 AWG CU	55	9.60	12.45	655	300	195	
§ Q0A850C	3/0 AWG CU	55	10.82	13.72	818	350	225	
§ Q0B850C	4/0 AWG CU	55	12.14	14.99	1024	405	260	
§ Q0C850C	250 MCM CU	65	14.17	17.78	1237	455	290	
§ QYZ015C	300 MCM CU	65	15.52	19.05	1473	500	320	
§ Q0D850C	350 MCM CU	65	16.79	20.32	1710	570	350	
§ QYZ016C	400 MCM CU	65	17.93	21.34	1948	615	380	
§ Q0E850C	500 MCM CU	65	20.04	23.62	2421	700	430	
§ QYZ017C	600 MCM CU	80	22.00	26.16	2919	780	475	
§ Q0F850C	750 MCM CU	80	24.59	28.96	3628	850	535	
§ Q0G850C	1000 MCM CU	80	28.37	32.77	4805	1055	615	

PRODUCT NOTES:

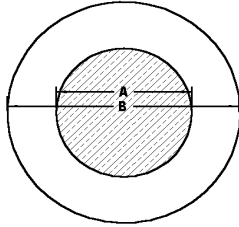
§ Items are Prysmian authorized stock.
 The above dimensions are approximate and subject to normal manufacturing tolerances.
 All metric (SI) dimensions are derived from a soft conversion.

† Ampacities are based on the following:

In Free Air (Table 1 of CEC C22.1): Single conductor, 85-90°C conductor temperature, and 30°C ambient temperature.
 Raceway (Table 2 of CEC C22.1): Not more than three conductors, 85-90°C conductor temperature, and 30°C ambient temperature.

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Product Number	Conductor	Insulation Thickness (mils)	Conductor Diameter (mm)		Insulation Diameter (mm)	Cable Weight (kg/km)	† Ampacity (Amps)	
			(A)	(B)			In free Air	Raceway
600 Volt Aluminum								
5 Q0J850C	6 AWG AL	45	4.29	6.60	56	85	55	
5 Q0K850C	4 AWG AL	45	5.41	7.87	81	115	75	
5 Q0M850C	2 AWG AL	45	6.81	9.14	121	150	100	
5 Q0O850C	1 AWG AL	55	7.65	10.54	156	175	115	
5 Q0Q850C	1/0 AWG AL	55	8.59	11.43	190	205	135	
5 Q0R850C	2/0 AWG AL	55	9.60	12.45	233	235	150	
5 Q0S850C	3/0 AWG AL	55	10.82	13.72	287	270	170	
5 Q0T850C	4/0 AWG AL	55	12.14	15.04	354	315	205	
5 Q0U850C	250 MCM AL	65	13.28	16.79	427	355	230	
5 QYZ023C	300 MCM AL	65	14.58	18.08	504	395	260	
5 Q0V850C	350 MCM AL	65	15.72	19.23	580	445	280	
5 QYZ024C	400 MCM AL	65	16.87	20.37	655	480	305	
5 Q0W850C	500 MCM AL	65	18.80	22.30	805	545	350	
5 Q0X850C	750 MCM AL	80	23.11	27.43	1223	700	435	
5 Q0Y850C	1000 MCM AL	80	26.92	31.24	1603	845	500	

PRODUCT NOTES:

5 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:

In Free Air (Table 3 of CEC C22.1): Single conductor, 85-90°C conductor temperature, and 30°C ambient temperature.

Raceway (Table 4 of CEC C22.1): Not more than three conductors, 85-90°C conductor temperature, and 30°C ambient temperature.