

1kV RWU90

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)
- 600 Volt-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



Direct Buried



Isolated in Air



Wet Locations



Conduit in Air



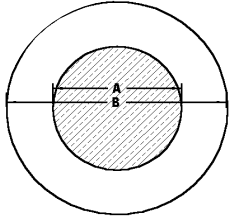
Underground Duct



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
1kV Copper								
QYZ018C	14 AWG CU	60	1.80	5.08	34	35	25	
QYZ019C	12 AWG CU	60	2.26	5.33	48	40	30	
QYZ020C	10 AWG CU	60	2.87	6.10	69	55	40	
Q00860C	8 AWG CU	80	3.40	7.62	107	80	55	
Q01860C	6 AWG CU	80	4.29	8.64	159	105	75	
Q02860C	4 AWG CU	80	5.41	9.65	237	140	95	
QYZ021C	3 AWG CU	80	6.07	10.41	290	165	115	
Q03860C	2 AWG CU	80	6.81	11.18	359	190	130	
Q06860C	1 AWG CU	95	7.59	12.70	455	220	145	
Q08860C	1/0 AWG CU	95	8.59	13.72	562	260	170	
Q09860C	2/0 AWG CU	95	9.60	14.73	696	300	195	
Q0A860C	3/0 AWG CU	95	10.82	15.75	863	350	225	
Q0B860C	4/0 AWG CU	95	12.14	17.27	1088	405	260	
Q0C860C	250 MCM CU	110	14.17	20.07	1298	455	290	
QYZ022C	300 MCM CU	110	15.52	21.34	1539	500	320	
Q0D860C	350 MCM CU	110	16.79	22.61	1780	570	350	
Q0E860C	500 MCM CU	110	20.04	25.91	2501	700	430	
Q0F860C	750 MCM CU	125	24.59	31.24	3724	885	535	
Q0G860C	1000 MCM CU	125	28.37	35.05	4887	1055	615	

PRODUCT NOTES:

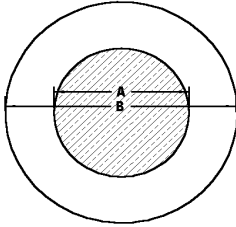
s Items are Prysmian authorized stock.
 The above dimensions are approximate and subject to normal manufacturing tolerances.
 All metric (SI) dimensions are derived from a soft conversion.

† Ampacities are based on the following:

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
1 kV Aluminum								
^s QOJ860C	6 AWG AL	80	4.29	8.56	77	85	55	
^s QOK860C	4 AWG AL	80	5.41	9.68	105	115	75	
^s QOM860C	2 AWG AL	80	6.81	11.18	148	170	100	
^s QOO860C	1 AWG AL	95	7.65	12.67	191	195	115	
^s QOQ860C	1/0 AWG AL	95	8.59	13.61	229	205	135	
^s QOR860C	2/0 AWG AL	95	9.60	14.63	275	235	150	
^s QOT860C	4/0 AWG AL	95	12.14	17.17	403	315	205	
^s QOU860C	250 MCM AL	110	13.28	19.08	486	355	230	
^s QOV860C	350 MCM AL	110	15.72	21.77	646	445	280	
^s QOW860C	500 MCM AL	110	18.80	24.59	882	545	350	
^s QOX860C	750 MCM AL	125	23.11	29.67	1316	700	435	

PRODUCT NOTES:

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 All metric (S) 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.

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