

## RWU90 (-40°C) XLPE Insulated Wire 1 kV 90°C

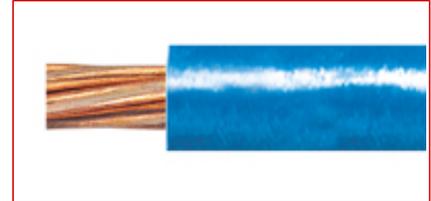
RWU90 (-40°C) XLPE Buried Circuits

### Description

CSA File #LL23462 Class 5832 03

Compact stranded AA-8000 series aluminum conductor material (ACM) per ASTM B801 Class B or ASTM B836 (Single Input Wire) with low temperature moisture resisting EXELENE\* cross-linked polyethylene insulation. Rated 1000 volts.

LEAD FREE. RoHS compliant.



### Standards

National CSA C22.2 N° 38

### Application

For direct earth burial (with protection as required by inspecting authority).\*\*  
 For exposed wiring where exposed to weather with sunlight resistant insulation. Standard Black #8 and larger is sunlight resistant and marked "SR"; coloured insulation is NOT. For service entrance above or below ground.\*\*  
 Minimum recommended installation temperature minus 40°C (with suitable handling procedures).  
 Maximum conductor temperature 90°C.

### Characteristics

#### Electrical characteristics

Operating voltage	1 kV
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#### Usage characteristics

Maximum operating temperature	90 °C
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### Selling information

Colours: Standard colours are available.

\*Registered Trademark of Nexans Canada Inc.

\*\*Direct buried installations must comply with C.E. Code Rules 12-012 and 4-004.

## RWU90 (-40°C) XLPE Insulated Wire 1 kV 90°C

RWU90 (-40°C) XLPE Insulated Wire 1 kV 90°C AI

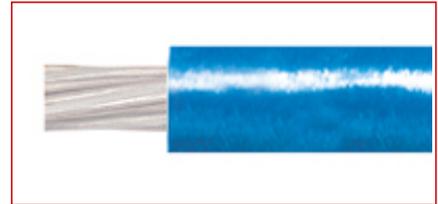
Nexans ref.: RWU90 (-40°C) XLPE Insulated Wire 1 kV 90°C AI

RWU90 (-40°C) XLPE

### Description

CSA File #LL23462 Class 5832 03

Compact stranded AA-8000 series aluminum conductor material (ACM) per ASTM B801 Class B or ASTM B836 (Single Input Wire) with low temperature moisture resisting EXELENE\* cross-linked polyethylene insulation. Rated 1000 volts. LEAD FREE. RoHS Compliant.



### Standards

**National** CSA C22.2 N° 38

### Application

For direct earth burial (with protection as required by inspecting authority).\*\*  
For exposed wiring where exposed to weather with sunlight resistant insulation. Standard Black #8 AWG and larger is sunlight resistant and marked "SR", coloured insulation is NOT.

For service entrance above or below ground.\*\*

Minimum recommended installation temperature minus 40°C (with suitable handling procedures).

Maximum conductor temperature 90°C.

## RWU90 (-40°C) XLPE Insulated Wire 1 kV 90°C

RWU90 (-40°C) XLPE Insulated Wire 1 kV 90°C AI

Nexans ref.: RWU90 (-40°C) XLPE Insulated Wire 1 kV 90°C AI

### Characteristics

<b>Construction characteristics</b>	
Conductor material	Aluminium
<b>Electrical characteristics</b>	
Operating voltage	1 kV
<b>Usage characteristics</b>	
Maximum operating temperature	90 °C

## RWU90 (-40°C) XLPE Insulated Wire 1 kV 90°C

RWU90 (-40°C) XLPE Insulated Wire 1 kV 90°C AI

Nexans ref.: RWU90 (-40°C) XLPE Insulated Wire 1 kV 90°C AI

### RWU 1 kV AI

Size AWG or kcmil	Insulation Thickness		Approximate Diameter		Approximate Net Cable Weight		Ampacity (amps) 30°C Ambient	
	mm	in	Aluminum Conductor		Aluminum Conductor		Aluminum	
			mm	in	kg/km	lbs/kft	Free Air	Conduit#
6	2.03	0.080	8.4	0.33	77	52	80	55***
4	2.03	0.080	9.6	0.38	106	71	105	65
3	2.03	0.080	10.2	0.40	126	85	120	75
2	2.03	0.080	11.1	0.44	150	101	140	95***
1	2.41	0.095	12.4	0.49	193	130	165	105
1/0	2.41	0.095	13.5	0.53	232	156	190	120
2/0	2.41	0.095	14.5	0.57	278	187	220	145
3/0	2.41	0.095	15.7	0.62	335	225	255	165
4/0	2.41	0.095	17.3	0.68	408	274	300	185***
250	2.79	0.110	19.0	0.75	494	332	330	215
300	2.79	0.110	20.3	0.80	576	387	375	240
350	2.79	0.110	21.6	0.85	668	442	415	260
400	2.79	0.110	22.6	0.89	737	495	450	290
500	2.79	0.110	24.6	0.97	896	602	515	330
600	3.17	0.125	27.2	1.07	1193	802	585	370
750	3.17	0.125	29.7	1.17	1332	895	670	405
1000	3.17	0.125	33.5	1.32	1720	1156	800	480

### Selling information

Colours: Standard colours are available.

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\*\*Direct buried installations must comply with C.E. Code Rules 12-012 and 4-004.

\*\*\*For 3-wire 120/240 and 120/208V residential services or sub-services, the allowable ampacity for sizes #6, #2 and #4/0 AWG aluminum shall be 60, 100 and 200 amperes respectively. In these cases, the 5% adjustment per C.E. Code Rule 8-106(1) cannot be applied.

# Based on not more than 3 current carrying conductors in raceway or cable.

## RWU90 (-40°C) XLPE Insulated Wire 1 kV 90°C

RWU90 (-40°C) XLPE Insulated Wire 1 kV 90°C Cu

Nexans ref.: RWU90 (-40°C) XLPE Insulated Wire 1 kV 90°C Cu

RWU90 (-40°C) XLPE

### Description

CSA File #LL23462 Class 5832 03

Single solid or compressed stranded (Class B) copper, conductor with extra thickness of low temperature moisture resisting EXELENE\* cross-linked polyethylene insulation.

Rated 1000 volts. LEAD FREE. RoHS Compliant.

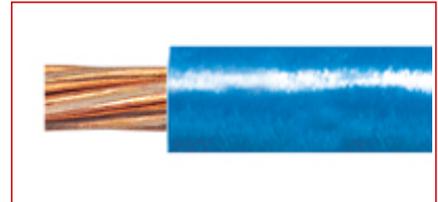
### Application

For direct earth burial (with protection as required by inspecting authority).\*\*  
For exposed wiring where exposed to weather with sunlight resistant insulation. Standard Black #8 AWG and larger is sunlight resistant and marked "SR", coloured insulation is NOT.

For service entrance above or below ground.\*\*

Minimum recommended installation temperature minus 40°C (with suitable handling procedures).

Maximum conductor temperature 90°C.



### Standards

**National** CSA C22.2 N° 38

## RWU90 (-40°C) XLPE Insulated Wire 1 kV 90°C

RWU90 (-40°C) XLPE Insulated Wire 1 kV 90°C Cu

Nexans ref.: RWU90 (-40°C) XLPE Insulated Wire 1 kV 90°C Cu

### Characteristics

<b>Construction characteristics</b>	
Conductor material	Copper
<b>Electrical characteristics</b>	
Operating voltage	1 kV
<b>Usage characteristics</b>	
Maximum operating temperature	90 °C

## RWU90 (-40°C) XLPE Insulated Wire 1 kV 90°C

RWU90 (-40°C) XLPE Insulated Wire 1 kV 90°C Cu

Nexans ref.: RWU90 (-40°C) XLPE Insulated Wire 1 kV 90°C Cu

### RWU 1 kV Cu

Size AWG or kcmil	Insulation Thickness		Approximate Diameter		Approximate Net Cable Weight		Ampacity (amps) 30°C Ambient	
	mm	in	Copper Conductor		Copper Conductor		Copper	
			mm	in	kg/km	lbs/kft	Free Air	Conduit#
14 (1)	1.52	0.060	4.7	0.19	33	22	20	15
12 (1)	1.52	0.060	5.2	0.20	46	31	25	20
10 (1)	1.52	0.060	5.7	0.22	66	44	40	30
14 (7)	1.52	0.060	4.9	0.19	34	23	20	15
12 (7)	1.52	0.060	5.4	0.21	48	32	25	20
10 (7)	1.52	0.060	6.0	0.24	69	46	40	30
8 (7)	2.03	0.080	7.8	0.31	112	76	70	45
6 (7)	2.03	0.080	8.8	0.35	164	110	100	65
4 (7)	2.03	0.080	10.0	0.39	243	164	135	85
3 (7)	2.03	0.080	10.6	0.42	298	201	155	105
2 (7)	2.03	0.080	11.4	0.45	367	247	180	120
1 (19)	2.41	0.095	13.0	0.51	464	312	210	140
1/0 (19)	2.41	0.095	13.9	0.55	572	384	245	155
2/0 (19)	2.41	0.095	15.0	0.59	715	480	285	185***
3/0 (19)	2.41	0.095	16.2	0.64	878	590	330	210
4/0 (19)	2.41	0.095	17.6	0.69	1089	732	385	235
250 (37)	2.79	0.110	19.5	0.77	1300	874	425	265
300 (37)	2.79	0.110	21.4	0.84	1544	1038	480	295
350 (37)	2.79	0.110	21.9	0.86	1775	1193	530	325
400 (37)	2.79	0.110	23.9	0.94	2027	1362	575	345
500 (37)	2.79	0.110	26.0	1.02	2507	1685	660	395
600 (61)	3.17	0.125	28.7	1.13	3012	2024	740	455
750 (61)	3.17	0.125	31.3	1.23	3728	2505	845	500
1000 (61)	3.17	0.125	35.1	1.38	4917	3304	1000	585

### Selling information

Colours: Standard colours are available.

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\*\* Direct buried installations must comply with Canadian Electric Code Rules 12-012 and 4-004.

\*\*\* For 3-wire 120/240 and 120/208 V residential services or sub-services, the allowable ampacity for #2/0 AWG copper shall be 200 amperes. In this case, the 5% adjustment per C.E. Code Rule 8-106(1) cannot be applied.

# Based on not more than 3 current carrying conductors in raceway or cable.