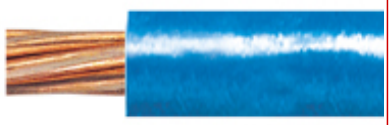
Contact
Residential/Commercial/Industrial
Phone: 905-944-4300
buildingwire.canada@nexans.com

INSTAGLIDE® RWU90 (–40°C) XLPE Insulated Wire 1 kV 90°C

INSTAGLIDE® RWU90 (–40°C) EXELENE® XLPE Underground Service Entrance and Branch Circuit Wire

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 (XLPE) insulation. Rated 1000 volts.

RoHS compliant.

Standards

National CSA C22.2 N° 38

Application

For direct earth burial (with protection as required by inspecting authority - direct buried installations must comply with CE Code Rules 12-012 and 4-004).
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. Nexans INSTAGLIDE® reduced friction construction in black sizes 6 AWG and larger.

Characteristics

Electrical characteristics	
Operating voltage	1 kV
Usage characteristics	
Maximum operating temperature	90 °C

Selling information

Colours: Standard colours are available.

INSTAGLIDE® RWU90 (–40°C) XLPE Insulated Wire 1 kV 90°C

1 kV Aluminum

Nexans ref.: RWU90

INSTAGLIDE® RWU90 (–40°C) EXELENE® XLPE Underground Service Entrance and Branch Circuit Wire

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 (XLPE) insulation. Rated 1000 volts. RoHS Compliant.

Standards

National CSA C22.2 N° 38

Application

For direct earth burial (with protection as required by inspecting authority - direct buried installations must comply with CE Code Rules 12-012 and 4-004).
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. Nexans INSTAGLIDE® reduced friction construction in black sizes 6 AWG and larger.

Characteristics

Construction characteristics	
Conductor material	Aluminum
Electrical characteristics	
Operating voltage	1 kV
Usage characteristics	
Maximum operating temperature	90 °C

INSTAGLIDE® RWU90 (–40°C) XLPE Insulated Wire 1 kV 90°C

1 kV Aluminum

Nexans ref.: RWU90

RWU 1 kV Aluminum

Size AWG or kcmil	Insulation Thickness		Approximate Diameter		Approximate Net Cable Weight		Ampacity (Note 5) (A) 30°C Ambient					
							Free Air (Note 2)			Conduit (Note 3)		
	mm	in	mm	in	kg/km	lbs/kft	60°C	75°C	90°C	60°C	75°C	90°C
6 (7)	2.03	0.080	8.4	0.33	77	52	65	75	85	40	50	55 (Note 4)
4 (7)	2.03	0.080	9.6	0.38	106	71	85	100	115	55	65	75
3 (7)	2.03	0.080	10.2	0.40	126	85	95	115	130	65	75	85
2 (6)	2.03	0.080	11.1	0.44	150	101	115	135	150	75	90	100
1 (8)	2.41	0.095	12.4	0.49	193	130	130	155	175	85	100	115
1/0 (10)	2.41	0.095	13.5	0.53	232	156	150	180	205	100	120	135
2/0 (12)	2.41	0.095	14.5	0.57	278	187	175	210	235	115	135	150
3/0 (16)	2.41	0.095	15.7	0.62	335	225	200	240	270	130	155	175
4/0 (18)	2.41	0.095	17.3	0.68	408	274	235	280	315	150	180	205
250 (35)	2.79	0.110	19.0	0.75	494	332	265	315	355	170	205	230
300 (35)	2.79	0.110	20.3	0.80	576	387	295	350	395	195	230	260
350 (35)	2.79	0.110	21.6	0.85	668	442	330	395	445	210	250	280
400 (35)	2.79	0.110	22.6	0.89	737	495	355	425	480	225	270	305
500 (35)	2.79	0.110	24.6	0.97	896	602	405	485	545	260	310	350
600 (58)	3.17	0.125	27.2	1.07	1193	802	455	545	615	285	340	385
750 (58)	3.17	0.125	29.7	1.17	1332	895	520	620	700	320	385	435
1000 (58)	3.17	0.125	33.5	1.32	1720	1156	630	750	845	375	445	500

Notes:

1) Where stated, "nominal" and "approximate" values are provided for information purposes only and are subject to standard manufacturing tolerances.
2) Based on CE Code Table 3, for single conductors in free air.
3) Based on CE Code Table 4, for not more than 3 current carrying conductors in a cable or raceway.
4) For 3-wire 120/240 V and 120/208 V residential services or sub-services the allowable ampacity for 6 AWG shall be 60 amperes. In this case, the 5% adjustment Rule (CE Code Rule 8-106(1)) cannot be applied.
5) The maximum conductor temperature (used to determine the maximum conductor ampacity) shall be based on the lowest temperature rating of the electrical equipment, any wire connector, or cable (CE Code Rule 4-006).

Selling information

Colours: Standard colours are available.

INSTAGLIDE® RWU90 (–40°C) XLPE Insulated Wire 1 kV 90°C

1 kV Copper

Nexans ref.: RWU90

INSTAGLIDE® RWU90 (–40°C) EXELENE® XLPE Underground Service Entrance and Branch Circuit Wire

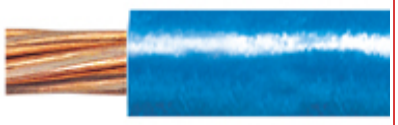
Description

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 (XLPE) insulation.

Rated 1000 volts.

RoHS Compliant.



Standards

National CSA C22.2 N° 38

Application

For direct earth burial (with protection as required by inspecting authority - direct buried installations must comply with CE Code Rules 12-012 and 4-004).
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. Nexans INSTAGLIDE® reduced friction construction in black sizes 6 AWG and larger.

Characteristics

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

INSTAGLIDE® RWU90 (–40°C) XLPE Insulated Wire 1 kV 90°C

1 kV Copper

Nexans ref.: RWU90

RWU 1 kV Copper

Size AWG or kcmil	Insulation Thickness		Approximate Diameter		Approximate Net Cable Weight		Ampacity (Note 6) (A) 30°C Ambient					
							Free Air (Note 2)			Conduit (Note 3)		
	mm	in	mm	in	kg/km	lbs/kft	60ºC	75ºC	90ºC	60ºC	75ºC	90ºC
14 (1) (Note 5)	1.52	0.060	4.7	0.19	33	22	25	30	35	20	20	25
12 (1) (Note 5)	1.52	0.060	5.2	0.20	46	31	30	35	40	25	25	30
10 (1) (Note 5)	1.52	0.060	5.7	0.22	66	44	40	50	55	30	35	40
14 (7) (Note 5)	1.52	0.060	4.9	0.19	34	23	25	30	35	20	20	25
12 (7) (Note 5)	1.52	0.060	5.4	0.21	48	32	30	35	40	25	25	30
10 (7) (Note 5)	1.52	0.060	6.0	0.24	69	46	40	50	55	30	35	40
8 (7)	2.03	0.080	7.8	0.31	112	76	60	70	80	40	50	55
6 (7)	2.03	0.080	8.8	0.35	164	110	80	95	105	55 (Note 4)	65	75
4 (7)	2.03	0.080	10.0	0.39	243	164	105	125	140	70	85	95
3 (7)	2.03	0.080	10.6	0.42	298	201	120	145	165	85	100	115
2 (7)	2.03	0.080	11.4	0.45	367	247	140	170	190	95	115	130
1 (19)	2.41	0.095	13.0	0.51	464	312	165	195	220	110	130	145
1/0 (19)	2.41	0.095	13.9	0.55	572	384	195	230	260	125	150	170
2/0 (19)	2.41	0.095	15.0	0.59	715	480	220	265	300	145	175	195 (Note 4)
3/0 (19)	2.41	0.095	16.2	0.64	878	590	260	310	350	165	200	225
4/0 (19)	2.41	0.095	17.6	0.69	1089	732	300	360	405	195	230	260
250 (37)	2.79	0.110	19.5	0.77	1300	874	340	405	455	215	255	290
300 (37)	2.79	0.110	21.4	0.84	1544	1038	370	445	500	240	285	320
350 (37)	2.79	0.110	21.9	0.86	1775	1193	425	505	570	260	310	350
400 (37)	2.79	0.110	23.9	0.94	2027	1362	455	545	615	280	335	380
500 (37)	2.79	0.110	26.0	1.02	2507	1685	520	620	700	320	380	430
600 (61)	3.17	0.125	28.7	1.13	3012	2024	580	690	780	350	420	475
750 (61)	3.17	0.125	31.3	1.23	3728	2505	655	785	885	400	475	535
1000 (61)	3.17	0.125	35.1	1.38	4917	3304	785	935	1055	455	545	615

Notes:
1) Where stated, “nominal” and “approximate” values are provided for information purposes only and are subject to standard manufacturing tolerances.
2) Based on CE Code Table 1, for single conductors in free air.
3) Based on CE Code Table 2, for not more than 3 current carrying conductors in a cable or raceway.
4) For 3-wire 120/240 V and 120/208 V residential services or sub-services the allowable ampacity for 6 AWG shall be 60 amperes, and 2/0 AWG shall be 200 amperes. In this case, the 5% adjustment Rule (CE Code Rule 8-106(1)) cannot be applied.
5) The overcurrent protection shall not exceed 15 amperes for 14 AWG, 20 amperes for 12 AWG, and 30 amperes for 10 AWG after any corrections factors for ambient temperature and number of conductors have been applied (CE Code Rule 14-104(2)), or as provided for by other Rules of the CE Code.
6) The maximum conductor temperature (used to determine the maximum conductor ampacity) shall be based on the lowest temperature rating of the electrical equipment, any wire connector, or cable (CE Code Rule 4-006).

Selling information

Colours: Standard colours are available.