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INSTAGLIDE® RW90 (–40°C) XLPE Insulated Wire 90°C

INSTAGLIDE® RW90 (–40°C) EXELENE® XLPE Service Entrance and Branch Circuit Wire

Description

CSA File #LL23462 Class 5832 03

Single solid or compressed stranded copper, or compact ACM aluminum conductor with low temperature moisture resisting EXELENE® cross-linked polyethylene (XLPE) insulation. RoHS compliant.

Application

For open wiring and raceways (except cabletroughs and ventilated flexible cableway) in dry or wet locations.
For exposed wiring where exposed to weather with sunlight resistant insulation. Standard Black 6 AWG and larger is sunlight resistant and marked "SR"; coloured insulation is *NOT*.
Minimum recommended installation temperature minus 40°C (with suitable handling procedures).
Maximum conductor temperature 90°C.
Approved for use with ceiling fixtures. Nexans INSTAGLIDE® reduced friction construction in black sizes 6 AWG and larger.

Standards

National CSA C22.2 N° 38

Characteristics

Usage characteristics	
Maximum operating temperature	90 °C

Selling information

Colours: Standard colours are available.

Non-jacketed RW-90 (XLPE) cables are not suitable for installation in vaults and switchrooms under the conditions of C.E. Code Part 1 Rule 12-2202(3). Suitable flame retardant jacketed cables are available on request.

INSTAGLIDE® RW90 (–40°C) XLPE Insulated Wire 90°C

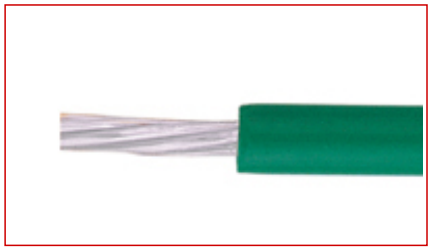
1 kV Aluminum

Nexans ref.: RW90

INSTAGLIDE® RW90 (–40°C) EXELENE® XLPE 1 kV Aluminum 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. RoHS compliant.

Standards

National CSA C22.2 N° 38

Application

For open wiring and raceways (except cabletroughs and ventilated flexible cableway) in dry or wet locations.
For exposed wiring where exposed to weather with sunlight resistant insulation. Standard Black 6 AWG and larger is sunlight resistant and marked "SR"; coloured insulation is *NOT*.
Minimum recommended installation temperature minus 40°C (with suitable handling procedures).
Maximum conductor temperature 90°C.
Approved for use with ceiling fixtures. Nexans INSTAGLIDE® reduced friction construction in black sizes 6 AWG and larger.

Characteristics

Construction characteristics	
Conductor material	Aluminum
Usage characteristics	
Maximum operating temperature	90 °C

INSTAGLIDE® RW90 (–40°C) XLPE Insulated Wire 90°C

1 kV Aluminum

Nexans ref.: RW90

RW90 1 kV Aluminum

Size AWG or kcmil	Insulation Thickness		Nominal 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	60ºC	75ºC	90ºC	60ºC	75ºC	90ºC
6 (7)	1.52	0.060	7.4	0.29	64	43	65	75	85	40	50	55 (Note 4)
4 (7)	1.52	0.060	8.6	0.34	91	61	85	100	115	55	65	75
3 (7)	1.52	0.060	9.1	0.36	108	73	95	115	130	65	75	85
2 (6)	1.52	0.060	9.9	0.39	131	88	115	135	150	75	90	100
1 (8)	2.03	0.080	11.7	0.46	177	119	130	155	175	85	100	115
1/0 (10)	2.03	0.080	12.7	0.50	213	143	150	180	205	100	120	135
2/0 (12)	2.03	0.080	13.7	0.54	257	173	175	210	235	115	135	150
3/0 (16)	2.03	0.080	15.0	0.59	312	210	200	240	270	130	155	175
4/0 (18)	2.03	0.080	16.2	0.64	384	258	235	280	315	150	180	205
250 (35)	2.28	0.090	17.8	0.70	475	307	265	315	355	170	205	230
300 (35)	2.28	0.090	19.1	0.75	536	360	295	350	395	195	230	260
350 (35)	2.28	0.090	20.3	0.80	614	413	330	395	445	210	250	280
400 (35)	2.28	0.090	21.3	0.84	692	465	355	425	480	225	270	305
500 (35)	2.28	0.090	23.4	0.92	844	567	405	485	545	260	310	350
600 (58)	2.28	0.090	25.1	0.99	997	670	455	545	615	285	340	385
750 (58)	2.28	0.090	27.7	1.09	1223	822	520	620	700	320	385	435
1000 (58)	2.28	0.090	31.5	1.24	1600	1075	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.

Non-jacketed RW-90 (XLPE) cables are not suitable for installation in vaults and switchrooms under the conditions of C.E. Code Part 1 Rule 12-2202(3). Suitable flame retardant jacketed cables are available on request.

INSTAGLIDE® RW90 (–40°C) XLPE Insulated Wire 90°C

1 kV Copper

Nexans ref.: RW90

INSTAGLIDE® RW90 (–40°C) EXELENE® XLPE 1 kV Copper Service Entrance and Branch Circuit Wire

Description

CSA File #LL23462 Class 5832 03

Single solid or compressed stranded (Class B) copper conductor with low temperature moisture resisting EXELENE® cross-linked polyethylene (XLPE) insulation. RoHS compliant.

Application

For open wiring and raceways (except cabletroughs and ventilated flexible cableway) in dry or wet locations.
For exposed wiring where exposed to weather with sunlight resistant insulation. Standard Black 6 AWG and larger is sunlight resistant and marked "SR"; coloured insulation is *NOT*.
Minimum recommended installation temperature minus 40°C (with suitable handling procedures).
Maximum conductor temperature 90°C.
Approved for use with ceiling fixtures. Nexans INSTAGLIDE® reduced friction construction in black sizes 6 AWG and larger.

Standards

National CSA C22.2 N° 38

Characteristics

Construction characteristics	
Conductor material	Copper
Usage characteristics	
Maximum operating temperature	90 °C

INSTAGLIDE® RW90 (–40°C) XLPE Insulated Wire 90°C

1 kV Copper

Nexans ref.: RW90

RW90 1 kV Copper

Size AWG or kcmil	Insulation Thickness		Nominal 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)	1.14	0.045	3.9	0.16	28	19	25	30	35	20	20	25
12 (1) (Note 5)	1.14	0.045	4.4	0.17	40	27	30	35	40	25	25	30
10 (1) (Note 5)	1.14	0.045	5.0	0.20	59	40	40	50	55	30	35	40
14 (7) (Note 5)	1.14	0.045	4.1	0.16	28	19	25	30	35	20	20	25
12 (7) (Note 5)	1.14	0.045	4.6	0.18	42	28	30	35	40	25	25	30
10 (7) (Note 5)	1.14	0.045	5.2	0.21	61	41	40	50	55	30	35	40
8 (7)	1.14	0.045	6.0	0.24	92	62	60	70	80	40	50	55
6 (7)	1.52	0.060	7.8	0.31	149	100	80	95	105	55 (Note 4)	65	75
4 (7)	1.52	0.060	9.0	0.35	226	152	105	125	140	70	85	95
3 (7)	1.52	0.060	9.7	0.38	280	188	120	145	165	85	100	115
2 (7)	1.52	0.060	10.5	0.41	347	233	140	170	190	95	115	130
1 (19)	2.03	0.080	12.2	0.48	439	295	165	195	220	110	130	145
1/0 (19)	2.03	0.080	13.0	0.51	524	352	195	230	260	125	150	170
2/0 (19)	2.03	0.080	14.1	0.56	651	437	220	265	300	145	175	195 (Note 4)
3/0 (19)	2.03	0.080	15.3	0.60	810	544	260	310	350	165	200	225
4/0 (19)	2.03	0.080	16.7	0.66	1007	676	300	360	405	195	230	260
250 (37)	2.28	0.090	18.4	0.72	1252	841	340	405	455	215	255	290
300 (37)	2.28	0.090	20.4	0.80	1490	1001	370	445	500	240	285	320
350 (37)	2.28	0.090	20.9	0.82	1642	1103	425	505	570	260	310	350
400 (37)	2.28	0.090	22.8	0.90	1966	1321	455	545	615	280	335	380
500 (37)	2.28	0.090	24.9	0.98	2433	1635	520	620	700	320	380	430
600 (61)	2.28	0.090	26.9	1.06	2903	1951	580	690	780	350	420	475
750 (61)	2.28	0.09	29.5	1.16	3603	2421	655	785	885	400	475	535
1000 (61)	2.28	0.09	33.3	1.31	4764	3201	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.

Non-jacketed RW90 (XLPE) cables are not suitable for installation in vaults and switchrooms under the conditions of C.E. Code Part 1 Rule 12-2202(3). Suitable flame retardant jacketed cables are available on request.

INSTAGLIDE® RW90 (–40°C) XLPE Insulated Wire 90°C

600 V Aluminum

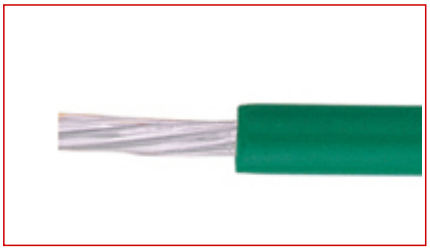
Nexans ref.: RW90

INSTAGLIDE® RW90 (–40°C) EXELENE® XLPE 600 V Aluminum 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 insulation. RoHS compliant.



Application

For open wiring and raceways (except cabletroughs and ventilated flexible cableway) in dry or wet locations.
For exposed wiring where exposed to weather with sunlight resistant insulation. Standard Black 6 AWG and larger is sunlight resistant and marked "SR"; coloured insulation is *NOT*.
Minimum recommended installation temperature minus 40°C (with suitable handling procedures).
Maximum conductor temperature 90°C.
Approved for use with ceiling fixtures. Nexans INSTAGLIDE® reduced friction construction in black sizes 6 AWG and larger.

Standards

National CSA C22.2 N° 38

Characteristics

Construction characteristics	
Conductor material	Aluminum
Usage characteristics	
Maximum operating temperature	90 °C

INSTAGLIDE® RW90 (–40°C) XLPE Insulated Wire 90°C

600 V Aluminum

Nexans ref.: RW90

RW90 600 V Aluminum

Size AWG or kcmil	Insulation Thickness		Nominal 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	60ºC	75ºC	90ºC	60ºC	75ºC	90ºC
6 (7)	1.14	0.045	6.6	0.26	57	38	65	75	85	40	50	55 (Note 4)
4 (7)	1.14	0.045	7.7	0.30	83	56	85	100	115	55	65	75
3 (7)	1.14	0.045	8.3	0.33	101	68	95	115	130	65	75	85
2 (6)	1.14	0.045	9.1	0.36	122	82	115	135	150	75	90	100
1 (8)	1.40	0.055	10.4	0.41	158	106	130	155	175	85	100	115
1/0 (10)	1.40	0.055	11.3	0.45	193	130	150	180	205	100	120	135
2/0 (12)	1.40	0.055	12.3	0.49	237	159	175	210	235	115	135	150
3/0 (16)	1.40	0.055	13.5	0.53	290	195	200	240	270	130	155	175
4/0 (18)	1.40	0.055	14.8	0.59	360	242	235	280	315	150	180	205
250 (35)	1.65	0.065	16.5	0.65	433	291	265	315	355	170	205	230
300 (35)	1.65	0.065	17.8	0.70	510	343	295	350	395	195	230	260
350 (35)	1.65	0.065	18.9	0.75	588	395	330	395	445	210	250	280
400 (35)	1.65	0.065	20.0	0.79	662	445	355	425	480	225	270	305
500 (35)	1.65	0.065	22.0	0.87	815	548	405	485	545	260	310	350
600 (58)	2.03	0.080	24.7	0.97	1000	671	455	545	615	285	340	385
750 (58)	2.03	0.080	27.1	1.07	1235	830	520	620	700	320	385	435
1000 (58)	2.03	0.080	31.0	1.22	1610	1082	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.

Non-jacketed RW-90 (XLPE) cables are not suitable for installation in vaults and switchrooms under the conditions of C.E. Code Part 1 Rule 12-2202(3). Suitable flame retardant jacketed cables are available on request.

INSTAGLIDE® RW90 (–40°C) XLPE Insulated Wire 90°C

600 V Copper

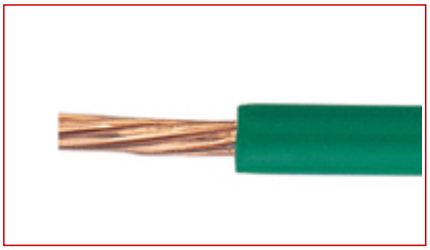
Nexans ref.: RW90

INSTAGLIDE® RW90 (–40°C) EXELENE® XLPE 600 V Copper Service Entrance and Branch Circuit Wire

Description

CSA File #LL23462 Class 5832 03

Single solid or compressed stranded (Class B) copper conductor with low temperature moisture resisting EXELENE® cross-linked polyethylene (XLPE) insulation. RoHS compliant.



Application

For open wiring and raceways (except cabletroughs and ventilated flexible cableway) in dry or wet locations.
For exposed wiring where exposed to weather with sunlight resistant insulation. Standard Black 6 AWG and larger is sunlight resistant and marked "SR"; coloured insulation is *NOT*.
Minimum recommended installation temperature minus 40°C (with suitable handling procedures).
Maximum conductor temperature 90°C.
Approved for use with ceiling fixtures. Nexans INSTAGLIDE® reduced friction construction in black sizes 6 AWG and larger.

Standards

National CSA C22.2 N° 38

Characteristics

Construction characteristics	
Conductor material	Copper
Usage characteristics	
Maximum operating temperature	90 °C

INSTAGLIDE® RW90 (–40°C) XLPE Insulated Wire 90°C

600 V Copper

Nexans ref.: RW90

RW90 600 V Copper

Size AWG or kcmil	Insulation Thickness		Nominal 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)	0.76	0.030	3.2	0.13	24	16	25	30	35	20	20	25
12 (1) (Note 5)	0.76	0.030	3.6	0.14	35	24	30	35	40	25	25	30
10 (1) (Note 5)	0.76	0.030	4.1	0.16	54	36	40	50	55	30	35	40
14 (7) (Note 5)	0.76	0.030	3.3	0.13	25	17	25	30	35	20	20	25
12 (7) (Note 5)	0.76	0.030	3.8	0.15	37	25	30	35	40	25	25	30
10 (7) (Note 5)	0.76	0.030	4.6	0.18	57	38	40	50	55	30	35	40
8 (7)	1.14	0.045	5.9	0.23	92	62	60	70	80	40	50	55
6 (7)	1.14	0.045	6.8	0.27	141	95	80	95	105	55 (Note 4)	65	75
4 (7)	1.14	0.045	8.0	0.32	217	146	105	125	140	70	85	95
3 (7)	1.14	0.045	8.7	0.34	269	181	120	145	165	85	100	115
2 (7)	1.14	0.045	9.5	0.37	336	226	140	170	190	95	115	130
1 (19)	1.40	0.055	11.0	0.43	429	288	165	195	220	110	130	145
1/0 (19)	1.40	0.055	11.8	0.47	532	358	195	230	260	125	150	170
2/0 (19)	1.40	0.055	12.9	0.51	672	452	220	265	300	145	175	195 (Note 4)
3/0 (19)	1.40	0.055	14.2	0.56	833	560	260	310	350	165	200	225
4/0 (19)	1.40	0.055	15.6	0.61	1040	699	300	360	405	195	230	260
250 (37)	1.65	0.065	17.2	0.68	1238	832	340	405	455	215	255	290
300 (37)	1.65	0.065	18.8	0.74	1454	977	370	445	500	240	285	320
350 (37)	1.65	0.065	19.9	0.78	1713	1151	425	505	570	260	310	350
400 (37)	1.65	0.065	21.2	0.84	1924	1293	455	545	615	280	335	380
500 (37)	1.65	0.065	23.3	0.92	2387	1604	520	620	700	320	380	430
600 (61)	2.03	0.080	26.0	1.03	2883	1937	580	690	780	350	420	475
750 (61)	2.03	0.080	28.9	1.13	3582	2407	655	785	885	400	475	535
1000 (61)	2.03	0.080	32.4	1.28	4438	3184	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.

Non-jacketed RW-90 (XLPE) cables are not suitable for installation in vaults and switchrooms under the conditions of C.E. Code Part 1 Rule 12-2202(3). Suitable flame retardant jacketed cables are available on request.