

**Contact**

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

## INSTAGLIDE® T90 Nylon / TWN75 600 Volts 90°C Cu

PVC Insulated Nylon Covered Cables

**Description**

CSA File #LL23462 Class 5832 02

U.L. Standard #83 - U.L. Approval # E70347

Single copper conductor with thin wall PVC insulation and nylon covering with FT1 rating. Rated 600 volts. LEAD FREE.

Nexans INSTAGLIDE® reduced friction construction in sizes 6 AWG and larger.



**Standards**

**National** CSA C22.2 N° 75

**Application**

General purpose building wire for installation as exposed or concealed wiring and in raceways (except cable trays) in dry or damp locations.

Minimum recommended installation temperature minus 10°C (with suitable handling procedures).

Maximum conductor temperature 90°C dry, 75°C in wet locations, and 60°C when exposed to oil.

Approved for use with ceiling fixtures.

Nexans INSTAGLIDE® reduced friction construction in sizes 6 AWG and larger.

**Harmonized Product Print Legend:**

E53058 F INSTAGLIDE® 2/0 AWG (67.4mm²) (UL) THHN OR THWN-2 OR GR II OR MTW 600 VOLT VW-1 CT USE MADE IN CANADA LL 23462 2/0 AWG CSA/ ACNOR T90 / TWN75 NYLON FT1

**Characteristics**

<b>Construction characteristics</b>	
Conductor material	Copper
<b>Electrical characteristics</b>	
Maximum operating voltage	600 V
<b>Usage characteristics</b>	
Maximum operating temperature	90 °C

## INSTAGLIDE® T90 Nylon / TWN75 600 Volts 90°C Cu

Size AWG or kcmil	Insulation Thickness		Nylon Thickness		Approximate Diameter		Approx. Net Cable Weight		Ampacity (amps at 30°C Ambient)				Where exposed to oil Conduit #
									Damp & Dry		Wet		
	mm	in	mm	in	mm	in	kg/km	lbs/kft	Free Air	Conduit #	Free Air	Conduit #	
<b>14 (1)</b>	0.38	0.015	0.10	0.004	2.7	0.11	25	15	20	15	20	15	15
<b>12 (1)</b>	0.38	0.015	0.10	0.004	3.1	0.12	35	23	25	20	25	20	20
<b>10 (1)</b>	0.51	0.020	0.10	0.004	3.9	0.15	55	37	40	30	40	30	30
<b>14 (19)</b>	0.38	0.015	0.10	0.004	2.8	0.11	24	16	20	15	20	15	15
<b>12 (19)</b>	0.38	0.015	0.10	0.004	3.3	0.13	36	24	25	20	25	20	20
<b>10 (19)</b>	0.51	0.020	0.10	0.004	4.2	0.17	58	39	40	30	40	30	30
<b>8 (19)</b>	0.76	0.030	0.13	0.005	5.5	0.22	96	65	70	45	65	45	40
<b>6 (19)</b>	0.76	0.030	0.13	0.005	6.5	0.26	146	98	100	65	95	65	55
<b>4 (19)</b>	1.02	0.040	0.15	0.006	8.3	0.33	233	157	135	85	125	85	70
<b>3 (19)</b>	1.02	0.040	0.15	0.006	9.0	0.36	288	193	155	105	145	100	80
<b>2 (19)</b>	1.02	0.040	0.15	0.006	9.8	0.39	357	240	180	120	170	115	100
<b>1 (19)</b>	1.27	0.050	0.18	0.007	10.9	0.43	446	300	210	140	195	130	110
<b>1/0 (19)</b>	1.27	0.050	0.18	0.007	11.8	0.47	555	373	245	155	230	150	125
<b>2/0 (19)</b>	1.27	0.050	0.18	0.007	12.9	0.51	698	470	285	185**	265	175	145
<b>3/0 (19)</b>	1.27	0.050	0.18	0.007	14.2	0.56	862	579	330	210	310	200	165
<b>4/0 (19)</b>	1.27	0.050	0.18	0.007	15.5	0.61	1077	724	385	235	360	230	195
<b>250 (37)</b>	1.52	0.060	0.20	0.008	17.2	0.68	1272	855	425	265	405	255	215
<b>300 (37)</b>	1.52	0.060	0.20	0.008	18.5	0.73	1521	1022	480	295	445	285	240
<b>350 (37)</b>	1.52	0.060	0.20	0.008	19.7	0.78	1762	1184	530	325	505	310	260
<b>400 (37)</b>	1.52	0.060	0.20	0.008	20.8	0.82	2002	1345	575	345	545	335	280
<b>500 (37)</b>	1.52	0.060	0.20	0.008	22.9	0.90	2482	1668	660	395	620	380	320

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

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

### Selling information

Colours: Standard colours are available.

T90 / TWN75 is **NOT** sunlight resistant.

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

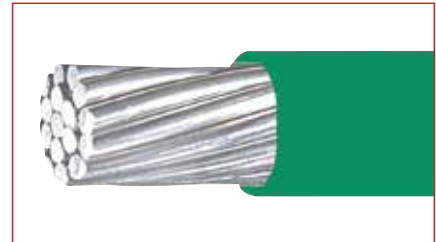
**1 kV Aluminum**  
Nexans ref.: RW90

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

### Description

CSA File #L23462 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.



### 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 sizes 6 AWG and larger, black and colours.

### Standards

**National CSA C22.2 N° 38**

### Characteristics

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