

## CONSTRUCTION CHARACTERISTICS TABLE - INSTAGLIDE® RW90 1 kV Copper

Size AWG or kcmil	Insulation Thickness		Nominal Diameter <sup>1</sup>		Approximate Net Cable Weight		Ampacity <sup>6</sup> (A) 30°C Ambient					
							Free Air <sup>2</sup>			Conduit <sup>3</sup>		
	mm	in	mm	in	kg/km	lbs/kft	60°C	75°C	90°C	60°C	75°C	90°C
<b>14 (1)<sup>5</sup></b>	1.14	0.045	3.9	0.16	28	19	25	30	35	20	20	25
<b>12 (1)<sup>5</sup></b>	1.14	0.045	4.4	0.17	40	27	30	35	40	25	25	30
<b>10 (1)<sup>5</sup></b>	1.14	0.045	5.0	0.20	59	40	40	50	55	30	35	40
<b>14 (7)<sup>5</sup></b>	1.14	0.045	4.1	0.16	28	19	25	30	35	20	20	25
<b>12 (7)<sup>5</sup></b>	1.14	0.045	4.6	0.18	42	28	30	35	40	25	25	30
<b>10 (7)<sup>5</sup></b>	1.14	0.045	5.2	0.21	61	41	40	50	55	30	35	40
<b>8 (7)</b>	1.14	0.045	6.0	0.24	92	62	60	70	80	40	50	55
<b>6 (7)</b>	1.52	0.060	7.8	0.31	149	100	80	95	105	55 <sup>4</sup>	65	75
<b>4 (7)</b>	1.52	0.060	9.0	0.35	226	152	105	125	140	70	85	95
<b>3 (7)</b>	1.52	0.060	9.7	0.38	280	188	120	145	165	85	100	115
<b>2 (7)</b>	1.52	0.060	10.5	0.41	347	233	140	170	190	95	115	130
<b>1 (19)</b>	2.03	0.080	12.2	0.48	439	295	165	195	220	110	130	145
<b>1/0 (19)</b>	2.03	0.080	13.0	0.51	524	352	195	230	260	125	150	170
<b>2/0 (19)</b>	2.03	0.080	14.1	0.56	651	437	220	265	300	145	175	195 <sup>4</sup>
<b>3/0 (19)</b>	2.03	0.080	15.3	0.60	810	544	260	310	350	165	200	225
<b>4/0 (19)</b>	2.03	0.080	16.7	0.66	1007	676	300	360	405	195	230	260
<b>250 (37)</b>	2.28	0.090	18.4	0.72	1252	841	340	405	455	215	255	290
<b>300 (37)</b>	2.28	0.090	20.4	0.80	1490	1001	370	445	500	240	285	320
<b>350 (37)</b>	2.28	0.090	20.9	0.82	1642	1103	425	505	570	260	310	350
<b>400 (37)</b>	2.28	0.090	22.8	0.90	1966	1321	455	545	615	280	335	380
<b>500 (37)</b>	2.28	0.090	24.9	0.98	2433	1635	520	620	700	320	380	430
<b>600 (61)</b>	2.28	0.090	26.9	1.06	2903	1951	580	690	780	350	420	475
<b>750 (61)</b>	2.28	0.09	29.5	1.16	3603	2421	655	785	885	400	475	535
<b>1000 (61)</b>	2.28	0.09	33.3	1.31	4764	3201	785	935	1055	455	545	615

### Notes:

<sup>1</sup> Where stated, "nominal" and "approximate" values are provided for information purposes only and are subject to standard manufacturing tolerances.

<sup>2</sup> Based on CE Code Table 1, for single conductors in free air.

<sup>3</sup> Based on CE Code Table 2, for not more than 3 current carrying conductors in a cable or raceway.

<sup>4</sup> 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.

<sup>5</sup> 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.

<sup>6</sup> 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).