

## CONSTRUCTION CHARACTERISTICS TABLE - INSTAGLIDE® RWU90 1 kV Aluminum

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

**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 3, for single conductors in free air.

<sup>3</sup> Based on CE Code Table 4, 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. In this case, the 5% adjustment Rule (CE Code Rule 8-106(1)) cannot be applied.

<sup>5</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).