

CONSTRUCTION CHARACTERISTICS TABLE - INSTAGLIDE® RWU90 1 kV Copper

Size AWG or kcmil	Insulation Thickness		Approximate Diameter ¹		Approximate Net Cable Weight		Ampacity ⁶ (A) 30°C Ambient					
							Free Air ²			Conduit ³		
	mm	in	mm	in	kg/km	lbs/kft	60°C	75°C	90°C	60°C	75°C	90°C
14 (1)⁵	1.52	0.060	4.7	0.19	33	22	25	30	35	20	20	25
12 (1)⁵	1.52	0.060	5.2	0.20	46	31	30	35	40	25	25	30
10 (1)⁵	1.52	0.060	5.7	0.22	66	44	40	50	55	30	35	40
14 (7)⁵	1.52	0.060	4.9	0.19	34	23	25	30	35	20	20	25
12 (7)⁵	1.52	0.060	5.4	0.21	48	32	30	35	40	25	25	30
10 (7)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 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 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).