

CONSTRUCTION CHARACTERISTICS TABLE - INSTAGLIDE® RW90 600 V - AI

Size AWG or kcmil	Insulation Thickness		Nominal Diameter ¹		Approximate Net Cable Weight		Ampacity ⁵ (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
6 (7)	1.14	0.045	6.6	0.26	57	38	65	75	85	40	50	55 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).