

## CONSTRUCTION CHARACTERISTICS TABLE - INSTAGLIDE® T90 NYLON / TWN75

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 <sup>#</sup>
									Damp & Dry		Wet		
	mm	in	mm	in	mm	in	kg/km	lbs/kft	Free Air	Conduit <sup>#</sup>	Free Air	Conduit <sup>#</sup>	
<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

**Notes:**  
 \*\*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.  
<sup>#</sup>Based on not more than 3 copper conductors in raceway or cable.