

NS75/NS90 DUPLEX FT1 ELECTRICAL DATA

Phase Size (Stranding) AWG or kcmil	Phase Conductor Resistance				Inductive Reactance (ohm/km)	Cable Ampacity (amps)	
	Rdc @ 20°C (ohm/km)	Rac @ 50°C (ohm/km)	Rac @ 75°C (ohm/km)	Rac @ 90°C (ohm/km)		NS75	NS90
DUPLEX JACKETED FT1							
6 (7)	2.190	2.480	2.700	2.840	0.1207	80	95
4 (7)	1.380	1.560	1.700	1.780	0.1129	105	125
2 (7)	0.865	0.979	1.070	1.120	0.1061	140	165
1 (7)	0.687	0.778	0.848	0.890	0.1129	160	190
1/0 (7)	0.544	0.616	0.672	0.705	0.1093	185	220
2/0 (7)	0.432	0.489	0.533	0.559	0.1061	210	255
3/0 (7)	0.343	0.388	0.423	0.444	0.1030	245	290
4/0 (7)	0.271	0.307	0.335	0.352	0.1001	280	335
266.8 (18)	0.215	0.244	0.268	0.282	0.1007	325	390
336.4 (18)	0.171	0.193	0.215	0.225	0.1015	375	450
397.5 (18)	0.144	0.164	0.184	0.193	0.0993	415	500
477 (18)	0.121	0.136	0.155	0.163	0.0973	460	560
500 (18)	0.115	0.130	0.149	0.156	0.0968	500	605
DUPLEX UNJACKETED FT1							
6 (7)	2.190	2.480	2.700	2.840	0.1048	80	95
4 (7)	1.380	1.560	1.700	1.780	0.0991	105	125
2 ((7)	0.865	0.979	1.070	1.120	0.0943	140	165
1 (7)	0.687	0.778	0.848	0.890	0.0979	160	190
1/0 (7)	0.544	0.616	0.672	0.705	0.0955	185	220
2/0 (7)	0.432	0.489	0.533	0.559	0.0933	210	255
3/0 (7)	0.343	0.388	0.423	0.444	0.0912	245	290
4/0 (7)	0.271	0.307	0.335	0.352	0.0893	280	335
266.8 (18)	0.215	0.244	0.268	0.282	0.0914	325	390
336.4 (18)	0.171	0.193	0.215	0.225	0.0894	375	450
397.5 (18)	0.144	0.164	0.184	0.193	0.0881	415	500
477 (18)	0.121	0.136	0.155	0.163	0.0867	460	560
500 (18)	0.115	0.130	0.149	0.156	0.0865	500	605
Rdc at 20°C is taken from CSA C49.5 Rac at 90°C is only applicable to NS90 cable Ampacities are from the CE Code C22.1-06, Table 36A, based on 30°C ambient air, 0.6 m/s wind, and solar radiation of 1025 W/m ²							