

NS75/NS90 QUADRUPLEX FT1 FULL NEUTRAL 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
QUADRUPLEX JACKETED FT1 FULL NEUTRAL							
6 (7)	2.190	2.480	2.700	2.840	0.1315	70	85
4 (7)	1.380	1.560	1.700	1.780	0.1243	95	110
2 (7)	0.865	0.979	1.070	1.120	0.1181	125	150
1 (7)	0.687	0.778	0.848	0.890	0.1244	145	170
1/0 (7)	0.544	0.616	0.672	0.705	0.1211	165	200
2/0 (7)	0.432	0.489	0.533	0.559	0.1181	190	230
3/0 (7)	0.343	0.388	0.423	0.444	0.1152	220	265
4/0 (7)	0.271	0.307	0.335	0.352	0.1126	255	305
266.8 (18)	0.215	0.244	0.268	0.282	0.1136	290	355
336.4 (18)	0.171	0.193	0.215	0.225	0.1143	335	410
397.5 (18)	0.144	0.164	0.184	0.193	0.1122	370	455
477 (18)	0.121	0.136	0.155	0.163	0.1103	415	510
500 (18)	0.115	0.130	0.149	0.156	0.1101	450	555
QUADRUPLEX UNJACKETED FT1 FULL NEUTRAL							
6 (7)	2.190	2.480	2.700	2.840	0.1169	70	85
4 (7)	1.380	1.560	1.700	1.780	0.1116	95	110
2 (7)	0.865	0.979	1.070	1.120	0.1071	125	150
1 (7)	0.687	0.778	0.848	0.890	0.1105	145	170
1/0 (7)	0.544	0.616	0.672	0.705	0.1082	165	200
2/0 (7)	0.432	0.489	0.533	0.559	0.1062	190	230
3/0 (7)	0.343	0.388	0.423	0.444	0.1042	220	265
4/0 (7)	0.271	0.307	0.335	0.352	0.1025	255	305
266.8 (18)	0.215	0.244	0.268	0.282	0.1048	290	355
336.4 (18)	0.171	0.193	0.215	0.225	0.1030	335	410
397.5 (18)	0.144	0.164	0.184	0.193	0.1016	370	455
477 (18)	0.121	0.136	0.155	0.163	0.1004	415	510
500 (18)	0.115	0.130	0.149	0.156	0.1003	450	555

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/m²