

NS75/NS90 TRIPLEX FT1 REDUCED NEUTRAL ELECTRICAL DATA

Phase Size (Stranding) AWG or kcmil	Neutral 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
TRIPLEX JACKETED FT1 REDUCED NEUTRAL								
4 (7)	6 (6/1)	1.380	1.560	1.700	1.780	0.1129	105	125
2 (7)	4 (6/1)	0.865	0.979	1.070	1.120	0.1061	140	165
1 (7)	2 (6/1)	0.687	0.778	0.848	0.890	0.1129	160	190
1/0 (7)	2 (6/1)	0.544	0.616	0.672	0.705	0.1093	185	220
2/0 (7)	1 (6/1)	0.432	0.489	0.533	0.559	0.1061	210	255
3/0 (7)	1/0 (6/1)	0.343	0.388	0.423	0.444	0.1030	245	290
4/0 (7)	2/0 (6/1)	0.271	0.307	0.335	0.352	0.1001	280	335
266.8 (18)	3/0 (6/1)	0.215	0.244	0.268	0.282	0.1007	325	390
336.4 (18)	4/0 (6/1)	0.171	0.193	0.215	0.225	0.1015	375	450
397.5 (18)	266.8 (26/7)	0.144	0.164	0.184	0.193	0.0993	415	500
477 (18)	336.4 (26/7)	0.121	0.136	0.155	0.163	0.0973	460	560
500 (18)	397.5 (26/7)	0.115	0.130	0.149	0.156	0.0968	500	605
TRIPLEX UNJACKETED FT1 REDUCED NEUTRAL								
4 (7)	6 (6/1)	1.380	1.560	1.700	1.780	0.0991	105	125
2 (7)	4 (6/1)	0.865	0.979	1.070	1.120	0.0943	140	165
1 (7)	2 (6/1)	0.687	0.778	0.848	0.890	0.0979	160	190
1/0 (7)	2 (6/1)	0.544	0.616	0.672	0.705	0.0955	185	220
2/0 (7)	1 (6/1)	0.432	0.489	0.533	0.559	0.0933	210	255
3/0 (7)	1/0 (6/1)	0.343	0.388	0.423	0.444	0.0912	245	290
4/0 (7)	2/0 (6/1)	0.271	0.307	0.335	0.352	0.0893	280	335
266.8 (18)	3/0 (6/1)	0.215	0.244	0.268	0.282	0.0914	325	390
336.4 (18)	4/0 (6/1)	0.171	0.193	0.215	0.225	0.0894	375	450
397.5 (18)	266.8 (26/7)	0.144	0.164	0.184	0.193	0.0881	415	500
477 (18)	336.4 (26/7)	0.121	0.136	0.155	0.163	0.0867	460	560
500 (18)	397.5 (26/7)	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								