

NS75/NS90 QUADRUPLEX FT1 FULL NEUTRAL PHYSICAL DATA

Phase Conductor			Full Size Neutral Support			Cable Assembly	
Size (Stranding) AWG or kcmil	Diameter (mm)	Jacket Diameter (mm)	Size (Stranding) AWG or kcmil	Area (mm ²)	Rated Strength (kN)	Overall Diameter (mm)	Total Weight (kg/km)
QUADRUPLEX JACKETED FT1 FULL NEUTRAL							
6 (7)	4.29	8.2	6 (6/1)	15.48	5.20	20.8	298
4 (7)	5.41	9.3	4 (6/1)	24.71	8.14	24.0	418
2 (7)	6.81	10.7	2 (6/1)	39.23	12.41	27.9	602
1 (7)	7.59	13.1	1 (6/1)	49.48	15.48	33.7	837
1/0 (7)	8.53	14.0	1/0 (6/1)	62.39	19.08	36.4	1002
2/0 (7)	9.55	15.0	2/0 (6/1)	78.65	23.80	39.3	1204
3/0 (7)	10.74	16.2	3/0 (6/1)	99.23	29.67	42.6	1456
4/0 (7)	12.07	17.5	4/0 (6/1)	125.1	37.45	46.3	1770
266.8 (18)	13.64	20.2	266.8 (26/7)	157.2	50.10	53.7	2260
336.4 (18)	15.32	22.9	336.4 (26/7)	198.2	62.31	60.9	2905
397.5 (18)	16.74	24.3	397.5 (26/7)	234.2	72.65	64.8	3345
477 (18)	18.34	25.9	477 (26/7)	281.1	87.17	69.3	3905
500 (18)	18.69	26.2	500 (30/7)	312.5	109.40	70.6	4205
NS75 with black LLDPE (optionally MDPE) insulation, PVC jacket - 1/c black, 1/c red, 1/c blue NS90 with black XLPE insulation, PVC jacket - 1/c black, 1/c red, 1/c blue Neutral support conductors 266.8 kcmil and larger are round wire ACSR, minimum Type 16, otherwise Type 100 compact ACSR conductors are used. Overall diameter is the multiplex assembly circumscribing circle diameter							

Phase Conductor			Full Size Neutral Support			Cable Assembly	
Size (Stranding) AWG or kcmil	Diameter (mm)	Insulation Diameter (mm)	Size (Stranding) AWG or kcmil	Area (mm ²)	Rated Strength (kN)	Overall Diameter (mm)	Total Weight (kg/km)
QUADRUPLEX UNJACKETED FT1 FULL NEUTRAL							
6 (7)	4.29	6.6	6 (6/1)	15.48	5.20	17.4	222
4 (7)	5.41	7.8	4 (6/1)	24.71	8.14	20.5	331
2 (7)	6.81	9.2	2 (6/1)	39.23	12.41	24.4	500
1 (7)	7.59	10.7	1 (6/1)	49.48	15.48	28.4	653
1/0 (7)	8.53	11.7	1/0 (6/1)	62.39	19.08	31.0	804
2/0 (7)	9.55	12.7	2/0 (6/1)	78.65	23.80	33.9	990
3/0 (7)	10.74	13.9	3/0 (6/1)	99.23	29.67	37.2	1224
4/0 (7)	12.07	15.2	4/0 (6/1)	125.1	37.45	40.8	1517
266.8 (18)	13.64	17.8	266.8 (26/7)	157.2	50.10	48.2	1967
336.4 (18)	15.32	19.5	336.4 (26/7)	198.2	62.31	52.9	2435
397.5 (18)	16.74	20.9	397.5 (26/7)	234.2	72.65	56.8	2844
477 (18)	18.34	22.5	477 (26/7)	281.1	87.17	61.3	3368
500 (18)	18.69	22.9	500 (30/7)	312.5	109.40	62.5	3660
Code words are from the Aluminum Association Publication 50, 7th Edition, Table C17 (add " / XLP " suffix for NS90) NS75 with black LLDPE (optionally MDPE) insulation, 1/c red extruded stripes, 1/c blue extruded stripes NS90 with black XLPE insulation, 1/c red extruded stripes, 1/c blue extruded stripes Neutral support conductors 266.8 kcmil and larger are round wire ACSR, minimum Type 16, otherwise Type 100 compact ACSR conductors are used. Overall diameter is the multiplex assembly circumscribing circle diameter							