

## NS75/NS90 DUPLEX FT1 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 <sup>2</sup> )	Rated Strength (kN)	Overall Diameter (mm)	Total Weight (kg/km)
<b>DUPLEX JACKETED FT1</b>							
6 (7)	4.29	8.2	6 (6/1)	15.48	5.20	12.8	135
4 (7)	5.41	9.3	4 (6/1)	24.71	8.14	15.1	196
2 (7)	6.81	10.7	2 (6/1)	39.23	12.41	18.1	291
1 (7)	7.59	13.1	1 (6/1)	49.48	15.48	21.3	393
1/0 (7)	8.53	14.0	1/0 (6/1)	62.39	19.08	23.3	478
2/0 (7)	9.55	15.0	2/0 (6/1)	78.65	23.80	25.4	583
3/0 (7)	10.74	16.2	3/0 (6/1)	99.23	29.67	27.9	714
4/0 (7)	12.07	17.5	4/0 (6/1)	125.1	37.45	30.7	879
266.8 (18)	13.64	20.2	266.8 (26/7)	157.2	50.10	36.4	1117
336.4 (18)	15.32	22.9	336.4 (26/7)	198.2	62.31	41.2	1427
397.5 (18)	16.74	24.3	397.5 (26/7)	234.2	72.65	44.2	1657
477 (18)	18.34	25.9	477 (26/7)	281.1	87.17	47.7	1951
500 (18)	18.69	26.2	500 (30/7)	312.5	109.40	49.2	2176
NS75 with black LLDPE (optionally MDPE) insulation, black PVC jacket NS90 with black XLPE insulation, black PVC jacket Neutral support conductors 266.8 kcmil and larger are round wire ACSR, minimum Type 16, otherwise Type 100 compact ACSR conductors are used Note: Only full neutral sizes are recommended for duplex cable assemblies 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 <sup>2</sup> )	Rated Strength (kN)	Overall Diameter (mm)	Total Weight (kg/km)
<b>DUPLEX UNJACKETED FT1</b>							
6 (7)	4.29	6.6	6 (6/1)	15.48	5.20	11.3	112
4 (7)	5.41	7.8	4 (6/1)	24.71	8.14	13.6	170
2 (7)	6.81	9.2	2 (6/1)	39.23	12.40	16.5	260
1 (7)	7.59	10.7	1 (6/1)	49.48	15.50	19.1	335
1/0 (7)	8.53	11.7	1/0 (6/1)	62.39	19.10	21.1	420
2/0 (7)	9.55	12.7	2/0 (6/1)	78.65	23.80	23.2	520
3/0 (7)	10.74	13.9	3/0 (6/1)	99.23	29.70	25.7	650
4/0 (7)	12.07	15.2	4/0 (6/1)	125.10	37.50	28.4	810
266.8 (18)	13.64	17.8	266.8 (26/7)	157.20	50.10	34.1	1019
336.4 (18)	15.32	19.5	336.4 (26/7)	198.20	62.31	37.8	1270
397.5 (18)	16.74	20.9	397.5 (26/7)	234.20	72.65	40.8	1490
477 (18)	18.34	22.5	477 (26/7)	281.10	87.17	44.3	1772
500 (18)	18.69	22.9	500 (30/7)	312.50	109.40	45.8	1995
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							