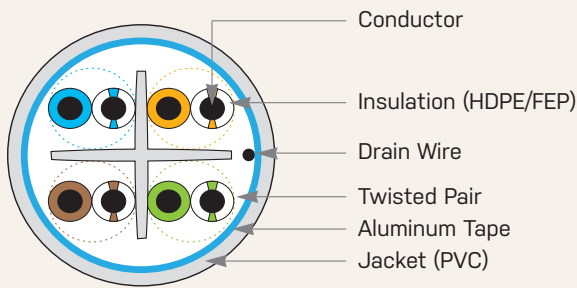


Category 6A 650MHz FTP

F6A650-004-xxxx



Description

- Capable of handling full broadband and baseband video signals
- Tight balance requirements improve cable performance
- Superior RFI, EMI and alien crosstalk performance by shield technology
- Every master reel is tested for electrical performance compliance
- Dual length marking in feet and meters from 1000 ft (305 m) to 0 ft (0 m)
- Slim Cable Diameter of 0.283 in. (7.2 mm)

Application

- Horizontal Distribution & Backbone Cabling
- 155Mbps ATM, 100Mbps TP-PMD
- 10/100/1000/10GBASE-T (IEEE 802.3)
- ISDN, ADSL
- ATM LAN 1.2G
- PoE, PoE+ and PoE++ (IEEE 802.3bt draft. Type 3 & 4)

Certifications



Part Numbers

JACKET COLOR	DESCRIPTION	
	Category 6A FTP Cable, 4-Pair, Riser Rated	Category 6A FTP Cable, 4-Pair, Plenum Rated
Blue	F6A650-004-RBL4	F6A650-004-PBL4
White	F6A650-004-RWH4	F6A650-004-PWH4
Grey	F6A650-004-RGY4	F6A650-004-PGY4
Black	F6A650-004-RBK4	F6A650-004-PBK4
Yellow	F6A650-004-RYL4	F6A650-004-PYL4
Green	F6A650-004-RGN4	F6A650-004-PGN4
Red	F6A650-004-RRD4	F6A650-004-PRD4
Orange	F6A650-004-ROR4	F6A650-004-POR4
Violet	F6A650-004-RV4	F6A650-004-PV4

Performance Characteristics

Meet or exceed TIA-568-C.2 Category 6A requirements

FREQUENCY ¹ (MHZ)	RETURN LOSS (RL) MINIMUM DB/100 M			INSERTION LOSS (ATTENUATION) MAXIMUM DB/100 M		
	TIA-568-C.2 Standard	F6A650-R Typical	F6A650-P Typical	TIA-568-C.2 Standard	F6A650-R Typical	F6A650-P Typical
1	20.0	37.30	37.30	2.1	1.79	1.79
4	23.0	31.83	31.83	3.8	3.30	3.30
10	25.0	32.72	32.72	5.9	5.26	5.26
16	25.0	36.61	36.61	7.5	6.69	6.69
20	25.0	39.05	39.05	8.4	7.52	7.52
31.25	23.6	37.54	37.54	10.5	9.39	9.39
62.5	21.5	37.04	37.04	15.0	13.47	13.47
100	20.1	30.14	30.14	19.1	17.11	17.11
200	18.0	29.21	29.21	27.6	24.50	24.50
250	17.3	28.70	28.70	31.1	27.29	27.29
300	16.8	28.43	28.43	34.3	29.81	29.81
400	15.9	25.95	25.95	40.1	34.70	34.70
500	15.2	24.28	24.28	45.3	39.00	39.00
600		23.70	23.70		44.00	44.00
650		23.50	23.50		46.00	46.00

FREQUENCY ¹ (MHZ)	NEAR END CROSS TALK (NEXT) MINIMUM DB/100 M			EQUAL LEVEL FAR END CROSS TALK (ELFEXT) MINIMUM DB/100 M		
	TIA-568-C.2 Standard	F6A650-R Typical	F6A650-P Typical	TIA-568-C.2 Standard	F6A650-R Typical	F6A650-P Typical
1	74.3	88.03	88.03	67.8	84.38	84.38
4	65.3	81.50	81.50	55.8	83.14	83.14
10	59.3	72.16	72.16	47.8	71.06	71.06
16	56.2	69.38	69.38	43.7	68.75	68.75
20	54.8	68.22	68.22	41.8	68.40	68.40
31.25	51.9	64.58	64.58	37.9	68.29	68.29
62.5	47.4	59.63	59.63	31.9	59.49	59.49
100	44.3	55.67	55.67	27.8	57.56	57.56
200	39.8	54.20	54.20	21.8	52.77	52.77
250	38.3	53.28	53.28	19.8	51.06	51.06
300	37.1	51.37	51.37	18.3	50.03	50.03
400	35.3	48.82	48.82	15.8	48.38	48.38
500	33.8	48.70	48.70	13.8	48.04	48.04
600		47.00	47.00		46.00	46.00
650		46.50	46.50		45.55	45.55

¹Value above 550Mhz are for informational purposes only

Technical Details

ITEM	UNIT	RISER	PLENUM
Conductor DC Resistance	Max. Ohms/100 m	9.38	9.38
Resistance Unbalance	Max. %	5	5
Mutual Capacitance	Max. nF/100 m	5.6	5.6
Capacitance Unbalance	Max. pF/100 m	330	330
Delay Skew	Max. ns	45	45
Nominal Velocity of Propagation	%	67	70
Operating Temperature	°F (°C)	-4 to +140 (-20 to +60)	-4 to +167 (-20 to +75)
Storage Temperature	°F (°C)	-4 to +176 (-20 to +80)	-4 to +194 (-20 to +90)
Bending Radius		4 x Cable diameter	4 x Cable diameter
Packaging:	Type	1 kft (305 m)	Reel
	Weight	lb/kft (kg/km)	43 (65)
	Packages Per Pallet		27
Materials:	Conductors	23 AWG, Solid copper	23 AWG, Solid copper
	Insulation	in (mm)	0.043 (1.1), HDPE
	Jacket	in (mm)	0.283 (7.2), PVC
Approvals:	Safety	UL 444, UL 1666	UL 444, NFPA 262
	Performance	TIA-568-C.2 "Balanced Twisted-Pair Telecommunications Cabling and Components Standards"	