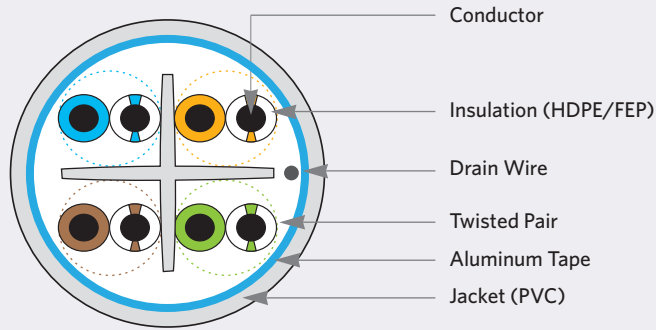


Category 6+ 550MHz FTP Cable

F6550-004-xxxx



LISTED



VERIFIED

Description

- UL Listed and Verified
- 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)
- RoHS compliant

Application

- Horizontal Distribution & Backbone Cabling
- 155Mbps ATM, 100Mbps TP-PMD
- 10/100/1000BASE-T (IEEE 802.3)
- 10GBASE-T up to max. 55 m
- ISDN, ADSL
- ATM LAN 1.2G
- PoE, PoE+ and PoE++ (IEEE 802.3bt draft. Type 3)

Part Numbers

Jacket Color	Description	
	Category 6+ FTP Cable, 4-Pair, Riser Rated	Category 6+ FTP Cable, 4-Pair, Plenum Rated
Blue	F6550-004-RBL4	F6550-004-PBL4
White	F6550-004-RWH4	F6550-004-PWH4
Grey	F6550-004-RGY4	F6550-004-PGY4
Black	F6550-004-RBK4	F6550-004-PBK4
Yellow	F6550-004-RYL4	F6550-004-PYL4
Green	F6550-004-RGN4	F6550-004-PGN4
Red	F6550-004-RRD4	F6550-004-PRD4
Orange	F6550-004-ROR4	F6550-004-POR4
Violet	F6550-004-RVI4	F6550-004-PVI4

Performance Characteristics

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

Frequency ² (MHz)	Return Loss (RL) Minimum dB/100 m			Insertion Loss (Attenuation) Maximum dB/100 m		
	TIA-568-C.2 Standard	F6550-R Typical	F6550-P Typical	TIA-568-C.2 Standard	F6550-R Typical	F6550-P Typical
1	20.0	35.13	29.51	2.0	1.84	1.79
4	23.0	35.88	32.23	3.8	3.36	3.34
10	25.0	39.06	35.55	6.0	5.35	5.33
16	25.0	42.62	39.13	7.6	6.78	6.81
20	25.0	36.10	34.90	8.5	7.66	7.65
31.25	23.6	35.92	33.96	10.7	9.52	9.60
62.5	21.5	35.01	33.71	15.4	13.65	13.90
100	20.1	34.52	32.62	19.8	17.25	17.56
200	18.0	33.80	32.31	29.0	24.61	25.50
250	17.3	32.44	30.23	32.8	27.49	28.51
300		30.00	29.00		34.10	33.90
400		29.00	28.00		36.60	36.40
500		28.00	27.00		38.60	38.40
550		27.00	26.00		40.00	40.00

Frequency ² (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	F6550-R Typical	F6550-P Typical	TIA-568-C.2 Standard	F6550-R Typical	F6550-P Typical
1	74.3	92.20	87.56	67.8	86.41	89.61
4	65.3	77.38	77.98	55.8	77.85	79.51
10	59.3	73.35	72.79	47.8	75.54	75.44
16	56.2	67.18	71.88	43.7	68.18	71.73
20	54.8	65.58	67.29	41.8	66.35	68.93
31.25	51.9	62.87	66.60	37.9	63.68	66.37
62.5	47.4	59.73	63.90	31.9	62.95	62.77
100	44.3	57.22	63.28	27.8	59.70	58.35
200	39.8	55.05	53.58	21.8	47.70	57.42
250	38.3	51.96	51.74	19.8	46.36	54.63
300		45.00	46.00		36.00	35.00
400		41.00	42.00		34.00	34.00
500		39.00	40.00		32.00	32.00
550		38.40	39.40		31.00	31.00

²Value above 250Mhz 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
Characteristic Impedance	Ohms	100 ± 15%	100 ± 15%
Propagation Delay	Max. ns/100 m	536 @ 550MHz	536 @ 550MHz
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		12
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"	