



CAT 6A F FTP

Overview

CAT 6A F FTP cables are produced according to ISO IEC 61156-5 and TIA 568-C.2 requirements, an excellent choice to support all Class E applications like Ethernet, Fast Ethernet, Gigabit Ethernet. CAT 6A F FTP cables are suitable for basic voice and data installations up to 250 MHz.

Construction

- 23 AWG Bare Copper
- Skin/Foam/Skin PE Insulation
- Al-Pet Foil 100% Coverage
- Tinned Copper Drain Wire
- Al-Pet Foil 100% Coverage
- Outer Sheath PVC,HFFR* or PE

Compliance

- EIA/TIA-568-C.2
- ISO/IEC 11801 2nd ed
- IEC 61156-5 , EN 50173-1
- EN 50288-10-1

Application

- IEEE 802.3: 10Base-T, 100Base-T, 1000Base-T, 10GBase-T, IEEE 802.5 16 MB, ISDN, TPDDI,
- ATM Power over Ethernet (PoE) / PoE+

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Technical Properties

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Copper Weight	22 kg/km
Min. Bending radius during draw in	58 mm
Min. Bending radius permanently installed	29 mm
Max. Tensile Strength	95 N
Min. Crush Resistance	1000 N/10 cm
Min. Impact	10 Impacts
Installation Temperature	0°C ... + 50°C
Operating Temperature	-30°C ... + 70°C
Packing	305 / 500 m
Electrical Properties at 20°C	
Max. Conductor Resistance	9.5 Ω / km
Max. Resistance Unbalance	< 2%
Min. Insulation Resistance	5000 MΩ x m
Mutual Capacitance	43 pF / m
Max. Capacitance Unbalance	1600 pF / km
Impedance at 100 MHz	100 ± 5 Ω
Velocity of Propagation	79%
Delay Skew	25 ns / 100 m
Min. TCL	Level 2
Coupling Attenuation	Type 2
Transfer Impedance	Class 2
Test Voltage	1000 V
Operating Voltage	125 V

Frequency (MHz)	Attenuation (dB/100 m)	NEXT (dB)	PS - NEXT (dB)	ACR (dB/100 m)	PS-ACR (dB/100 m)	ACRF (dB/100 m)	PS-ACRF (dB/100 m)	Return Loss (dB)
1	2,0	95	92	90	87	100	97	25
4	3,6	95	92	90	87	100	97	25
10	5,4	95	92	85	82	90	87	28
100	18,3	87	84	75	72	75	72	25
200	25,0	87	84	75	72	70	67	25
250	29,1	85	82	52	49	65	62	23
400	37,4	75	72	41	48	55	52	23
500	41,5	75	72	30	27	55	52	21

Product Name	Outer Sheath Material	Euro Class	Cable Weight	Flame Retardancy	Corrosive Gases	Smoke Density	Options
CAT 6A F/FTP	PVC	Eca	57 Kg/Km	EN 60332-1-2	N/A	N/A	PVC
CAT 6A F/FTP HFFR	HFFR	Dca	58 Kg/Km	EN 60332-1-2	EN 50267-2-3	EN 61034-2	HFFR
CAT 6A F/FTP PE	PE	Fca	49 Kg/Km	N/A	N/A	N/A	PE

Up-to-dated data sheet <http://www.upcom.com.tr/products/cables/cat-6a-f-ftp/>

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