



## CAT 7A S FTP

### Overview

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CAT 7A S FTP cables are produced according to ISO IEC 61156-5 and TIA 568-C.2 requirements, an excellent choice to support all Class F applications like Ethernet, Fast Ethernet, Gigabit Ethernet. CAT 7A S FTP cables are suitable for data installations up to 1200 MHz. CAT 7A S FTP cable has an S/FTP construction with individual pair Al-Pet foil and an overall tinned copper wire braiding offering a superior performance.

### Construction

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

### Compliance

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- EIA/TIA-568-C.2
- ISO/IEC 11801 2nd ed
- IEC 61156-5
- EN 50173-1
- EN 50288-9-1

### Application

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- 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

Technical Properties	
Copper Weight	34.5 kg/km
Min. Bending radius during draw in	62 mm
Min. Bending radius permanently installed	32 mm
Max. Tensile Strength	92 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 1
Transfer Impedance	Class 1
Test Voltage	1000 V
Operating Voltage	125 V

Product Name	Outer Sheath Material	Euro Class	Cable Weight	Flame Retardancy	Corrosive Gases	Smoke Density	Options
CAT 7A S/FTP	PVC	Eca	70 Kg/Km	EN 60332-1-2	N/A	N/A	PVC
CAT 7A S/FTP HFFR	HFFR	Dca	72 Kg/Km	EN 60332-1-2	EN 50267-2-3	EN 61034-2	HFFR
CAT 7A S/FTP PE	PE	Fca	61 Kg/Km	N/A	N/A	N/A	PE

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	1,9	101	101	99	96	101	98	24
4	3,2	101	101	97	94	98	95	30
10	4,9	98	98	95	92	98	95	32
100	17,2	97	97	82	79	84	81	34
250	28,0	93	92	63	60	70	67	27
500	41,5	95	92	56	53	61	58	24
600	43,7	88	85	45	42	59	56	22
800	53,2	84	81	30	27	52	49	20
1000	55,4	83	80	28	25	50	47	19
1200	57,0	80	77	23	20	49	46	18

Up-to-dated data-sheet <http://www.upcom.com.tr/products/cables/cat-7a-s-ftp/>

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