



CAT 7 S FTP

Overview

CAT 7 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 7 S FTP cables are suitable for data installations up to 900 MHz. CAT 7 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

- 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

- EIA/TIA-568-C.2
- ISO/IEC 11801 2nd ed
- IEC 61156-5
- EN 50173-1
- EN 50288-4-1

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		33.5 kg/km
Min. Bending radius	during draw in	60 mm
Min. Bending radius	permanently installed	30 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		0,79
Delay Skew		25 ns / 100 m
Min. TCL		Level 1
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 7 S/FTP	PVC	Eca	68 Kg/Km	EN 60332-1-2	N/A	N/A	PVC
CAT 7 S/FTP HFFR	HFFR	Dca	69 Kg/Km	EN 60332-1-2	EN 50267-2-3	EN 61034-2	HFFR
CAT 7 S/FTP PE	PE	Fca	59 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	2,0	104	101	99	96	101	98	24
4	3,4	104	101	97	94	98	95	30
10	4,9	101	98	95	92	98	95	32
100	17,3	100	97	82	79	84	81	34
250	28,2	95	92	63	60	70	67	27
500	42,0	95	92	56	53	61	58	24
600	44,0	88	85	45	42	59	56	22
700	53,5	84	81	30	27	52	49	20
800	55,5	83	80	28	25	50	47	19
900	57,3	80	77	23	20	49	46	18

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