



CAT 5e F UTP

Overview

CAT 5e F/UTP cables are produced according to ISO IEC 61156-5 and TIA 568-C.2 requirements, an excellent choice to support all Class D applications like Ethernet, Fast Ethernet, Gigabit Ethernet. Cat 5e F/UTP cables are suitable for basic voice and data installations up to 100 MHz.

Construction

- 24 AWG Bare Copper
- PE Insulation
- Pes band 100% Coverage
- Tinned Copper Drain Wire
- Al-Pet Foil 100% Coverage
- Outer Sheath PVC,HFFR* or PE

Compliance

- IEC 60754-2; EIA/TIA-568-C.2
- ISO/IEC 11801 2nd ed
- IEC 61156-5 , EN 50173-1
- EN 50288-3-1

Application

- IEEE 802.3: 10Base-T; 100Base-T; 1000Base-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	18 kg/km
Min. Bending radius during draw in	50 mm
Min. Bending radius permanently installed	25 mm
Max. Tensile Strength	100 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	50 pF / m
Max. Capacitance Unbalance	1600 pF / km
Impedance at 100 MHz	100 ± 5 Ω
Velocity of Propagation	69%
Delay Skew	45 ns / 100 m
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	70	67	68	65	78	75	21
4	4	62	59	58	55	70	67	29
10	6	55	52	50	47	52	49	30
16	8	55	52	45	42	50	47	30
31	11	48	45	40	37	35	32	29
63	16	48	45	30	27	35	32	27
100	21	40	37	20	17	30	27	27
200	27	35	32	10	7	20	17	20

Product Name	Outer Sheath Material	Euro Class	Cable Weight	Flame Retardancy	Corrosive Gases	Smoke Density	Options
CAT 5e F/UTP	PVC	Eca	39 Kg/Km	EN 60332-1-2	N/A	N/A	PVC
CAT 5e F/UTP HFFR	HFFR	Dca	41 Kg/Km	EN 60332-1-2	EN 50267-2-3	EN 61034-2	HFFR
CAT 5e F/UTP PE	PE	Fca	37 Kg/Km	N/A	N/A	N/A	PE

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