

## PRESENTATION

FTP cable is used commonly in computer networking. It is suitable for transmission until 130Mbits/s of digital and analogue voice, data and video signals with a low attenuation due to its shielding.

## STANDARDS

Our cable is produced according to the ANSI / TIA / EIA 568; ISO / IEC 11801 and EN 50288 standards.

## CABLE MANUFACTURE

### 1- Conductors:

Conductors are solid copper with a nominal diameter of 0,51 mm (AWG 24).

### 2- Insulation:

Each conductor is insulated with a layer of solid polyethylene. The radial thickness of the insulation is such that the electrical requirements are met.

### 3- Stranding:

- Two wires are twisted together in pair.
- Four pairs are stranded together to form the core.

### 4-Wrapping:

A polyester wrapping tape is applied over the core.

### 5- Screen:

Over the wrapped core cable is applied an aluminium tape, coated on one side with polyester.

### 6- Drain and continuity wire:

A solid tinned copper conductor of 0.5 mm diameter is applied under the screen in contact with the aluminium face to ensure its continuity.

### 7- Rip cord:

A polyester thread is applied under the outer sheath.

### 8- sheath:

PVC or halogen-free compound ( FRNC )



## DIMENSIONS

Type	Sheath thickness (mm)	Diameter (mm)	Width (mm)
F / UTP 4 P Cat 5E	0,5	6,2	
F / UTP 2x4 P Cat 5E	0,6	6,4	13,3

### ELECTRICAL CHARACTERISTICS

Maximum Resistance at 20° C	: 96 /km
Dielectric strength (1 mn, Vac)	: 1,0 kV
Insulation resistance (min.) at 200 Vdc	: >5000 M.km
Mutual capacitance (nom.)	: 55 nF/km
Characteristic Impedance	: 100 ± 15 ?
Velocity of propagation ( f>1 MHz)	: 66 % of C.

### TRANSMISSION CHARACTERISTICS

Frequency (Mhz)	Linear Attenuation max. (dB/100m)	Near End Crosstalk (NEXT) min. (dB)	ACR min. (dB)
0,064	0,8	--	--
0,256	1,1	--	--
0,512	1,5	--	--
0,772	1,8	77,7	--
1	2,1	65,3	63,2
4	4,3	56,3	52
10	6,6	50,3	43,7
16	8,2	47,3	39,1
20	9,2	45,8	36,6
31,25	11,8	42,9	31,1
62,5	17,1	38,4	21,3
100	22	35,3	13,3

### ENVIRONMENTAL CHARACTERISTICS

- Flame resistance Category C2 according to NFC 32070 2.1. (IEC 60332-1)
- Temperature of use -10° C ÷ +70° C
- Voltage max. of use 180 V at 50 Hz
- RoHS conformity European Parlement N: 2002/95/EC.