

APPLICATION

Shielded twisted pairs cable F/FTP which is used in a horizontal or vertical configuration. Its shielding with a very high coverage allows him a use in a disturbed environment and a correct operation up to 555 MHZ.

This cable is used for transmission of digital and analogue voice, Data and video signals.

STANDARDS

NF EN 50173-1 ; ISO/IEC 11801 ; CEI 61156-5

CONSTRUCTION**1- Conductor**

Solid annealed copper AWG23.

2- Insulation

Each conductor is insulated with 3 layers of polyethylene compound skin foam skin..

3- Stranding

- Two wires are twisted together in a pair..
- Each pair is screened with an overlapped laminated aluminium foil.
- The screened pairs are stranded together.

4- Overall screen

Aluminium polyester foil

5- Drain and continuity wire

A solid tinned copper conductor applied under the screen in contact with the aluminium face to ensure its continuity.

6- Rip cord

A polyester thread is applied under the outer sheath.

7- sheath

LSZH compound.

**ELECTRICAL CHARACTERISTICS**

Resistance at 20° C (max.)	: 95 Ω /km
Dielectric strength (1 mn, Vac)	: 1,0 kV
Insulation resistance (min.) at 200 Vcc	: >5000 MΩ .km
Mutual capacitance (nom.)	: 44 nF/km
Characteristic Impedance	: (From 1 to 100 Mhz) :100 ± 15 Ω
Velocity of propagation (f>1 MHz)	: 65 % of C.

Frequency (MHz)	Attenuation max. (dB/100m)	NEXT	PSNEXT (dB)	ELFEXT (dB/100)	PSELFEXT (dB/100)	Return loss dB
4	3.8	66.3	63.3	55.8	52.8	23
10	6.0	60.3	57.3	47.8	44.8	25
16	7.6	57.2	54.2	43.7	40.7	25
20	9.5	55.8	51.3	39.8	36.8	25
31.25	10.7	52.9	49.9	37.9	34.9	23.6
100	19.8	45.3	42.3	27.8	24.8	20.1
200	29.0	40.8	37.8	21.8	18.8	18
300	34.2	38.1	35.1	18.3	15.3	16.8
500	45.2	34.8	31.8	13.8	10.8	15.2

ENVIRONMENTAL CHARACTERISTICS

- Fire behaviour (IEC 60332-1); IEC 60754; IEC 61034
- Temperature of function -20° C ÷ +60° C
- Operating voltage 100V max
- Bending radius Static: 4xd Dynamic: 8xd