

## APPLICATION

For connection of IT system units in the desktop area, between workstations and as riser cable up to 600 Mbit/s (category 7+). It fully complies with the requirements to electromagnetic compatibility (EMC) of the European Standard EN 55022. Additional, the copper braiding ensures perfect matching with screened connectors.

## 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

Braiding of tinned copper wire

### 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



## DIMENSIONS

Type of cable	Sheath thickness (mm)	Diameter (mm)	Width (mm)
S/FTP CAT 7 4P	0.5 – 0.6	7.5 – 8	--
S/FTP CAT 7 2x4P	0.5 – 0.6	7.5 – 8	17 – 18

## ELECTRICAL CHARACTERISTICS

Resistance at 20° C (max.)	: 75 ? /km
Dielectric strength (1 mn, Vac)	: 1,0 kV
Insulation resistance (min.) at 200 Vcc	: >5000 M? .km
Mutual capacitance (nom.)	: 44 nF/km
Characteristic Impedance	: (From 1 to 100 Mhz) :100 ± 15 ? (From 100 to 250 Mhz) :100 ± 20 ?
Velocity of propagation ( f>1 MHz)	: 79 % of C.

F(MHz)	Attenuation (dB/100m)	NEXT (dB/100m)	PSNEXT (dB)	ELFEXT (dB/100)	PSELFEXT (dB/100)	Return loss (dB/100)
1	2,0	78,0	75,0	78	75,0	20,0
10	5,9	78,0	75,0	74	71	25
16	7,4	78,0	75,0	69,9	66,9	25
31,25	10,4	78,0	75,0	64,1	61,1	23,6
62,5	14,9	75,5	72,5	58,1	55,1	21,5
100	19,0	72,4	69,4	54	51	20,1
200	27,5	67,9	64,9	48	45	18,0
300	34,2	65,2	62,2	44,5	41,5	17,3
600	50,1	60,7	57,7	38,4	35,4	17,3

#### 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