

APPLICATION

For connection of IT system units in the desktop area, between workstations and as riser cable up to 1000 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 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	Sheath thickness (mm)	Diameter (mm)	Width (mm)
S/FTP CAT 7A 4P	0.5 – 0.6	7.5 – 8	--
S/FTP CAT 7A 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)	: 78 % 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
1000	61,9	57	54	34	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