

BiTLAN S/FTP cat.6A LSOH

500 MHz

Halogen-free, data transmission cable, screened



internal application



EN 60332-1



data transmission



halogen-free
EN 60754



low smoke emission
EN 61034

Technical data:

Temperature range:

Operating temperature: -30°C to +70°C

Min. installation temp: -10°C

Bending radius: 6xØ

Conductor diameter: 0,57±0,015mm

Insulated core diameter: 1,3±0,01mm

DC loop resistance at 20°C (max): 145Ω/km

Insulation resistance (min): 5GΩxkm

Resistance unbalance: ≤2%

Capacitance at 1 kHz: 45±5nF/km

Capacitance unbalance at 1kHz (max):

1600pF/km

Nominal voltage: 150V

Test voltage - 1min:

AC 50 Hz: 700V

DC: 1000V

Characteristic impedance: 100±5Ω

NVP value: 77%

Return loss (min):

f = 4÷10MHz: 20+5lg(f)

f = 10÷20MHz: 25

f = 20÷350MHz: 25-7lg(f/20)

Coupling attenuation within the range

of 30÷100 MHz (min.): 55dB

Transfer impedance at 10 MHz (max):

50mΩ/m

Construction:

Conductors: solid round copper conductors

Insulation: special polyolefin compound, foam-skin

Core identification: wh/bu-bu, wh/or-or, wh/gn-gn, wh/bn-bn

Core arrangement: cores twisted in pairs, screened pairs twisted together

Screen 1: aluminium backed polyester tape on every pair and tinned copper drain wire

Screen 2: tinned copper wire braid

Outer sheath: special LSOH compound

Outer sheath colour: orange RAL 2003

Marking: BITNER BiTLAN S/FTP 4x2x23AWG cat.6A 500MHz LSOH

EN 50173-1 ISO/IEC 11801 ANSI/TIA 568-C.2 ID no. CE RoHS

www.bitner.com.pl meters

Application:

BiTLAN S/FTP cat.6A LSOH cables are applicable to computer networks with operating frequency band up to 500MHz. Suitable for transmission of data, audio and video signals, with bitrate up to 10Gb/s. Additional individual and collective Al/Pet screens with CuSn drain wire acts as a protection against external electromagnetic interferences. Dedicated for fixed installations within indoor structured cabling systems as per EN 50173-1, ISO/IEC 11801, ANSI/TIA 568-C.2 standards, as well as within industrial networks exposed to external electromagnetic interferences.

Cables with flame retardant LSOH outer sheath ensuring low smoke emission acc. to EN 50268-2, IEC 61034-2 and limited emission of corrosive gases acc. to EN 60754-2, IEC 60754-2. should be installed in places with increased fire safety requirements.

Cables classified according to **EN 50575 (CPR)**.

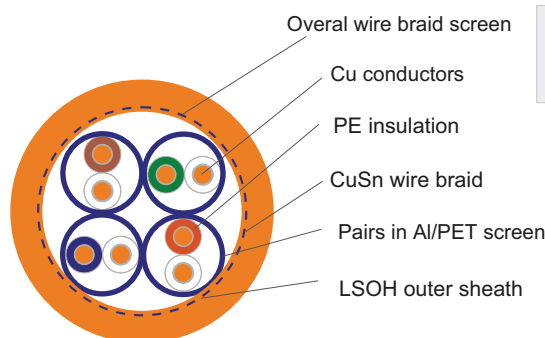
Packaging:



Spool/Coil
500m



Spool/drum
1000m



Cat. no	Construction	Cu wire	O.D. [mm]	CPR classification EN 50575	Cu [kg/km]	Cable weight [kg]	Bandwidth [MHz]
TI0081	S/FTP cat.6A LSOH	23AWG	7,5	Dca-s1a,d2,a1	25	60	500

Cable Factory BITNER reserves the right to modify the specifications without prior notice

BiTLAN S/FTP cat.6A LSOH

500 MHz Halogen-free, data transmission cable, screened

Performance test charts and data:

Frequency MHz	1	4	10	16	20	31,25	62,5	100	125	155	175	200	250	300	500
Attenuation \leq dB/100m	2,1	3,8	5,9	7,5	8,4	10,5	15,0	19,1	21,5	24,1	25,7	27,6	31,1	34,3	45,3
NEXT \geq dB/100m	75,3	66,3	60,3	57,2	55,8	52,9	48,4	45,3	43,8	42,4	41,7	40,8	39,3	38,1	34,8
PS NEXT \geq dB/100m	72,3	63,3	57,3	54,2	52,8	49,9	45,4	42,3	40,8	39,4	38,7	37,8	36,3	35,1	31,8
ELFEXT \geq dB/100m	68,0	56,0	48,0	43,9	42,0	38,1	32,1	28,0	26,1	24,2	23,1	22,0	20,0	18,5	14,0
PS ELFEXT \geq dB/100m	65,0	53,0	45,0	41,9	39,0	35,1	29,1	25,0	23,1	21,2	20,1	19,0	17,0	15,5	11,0
RL \geq dB	20,0	23,0	25,0	25,0	25,0	23,6	21,5	20,1	19,4	18,8	18,4	18,0	17,3	17,3	17,3

Transmission parameters graphs - examples of measurement results

