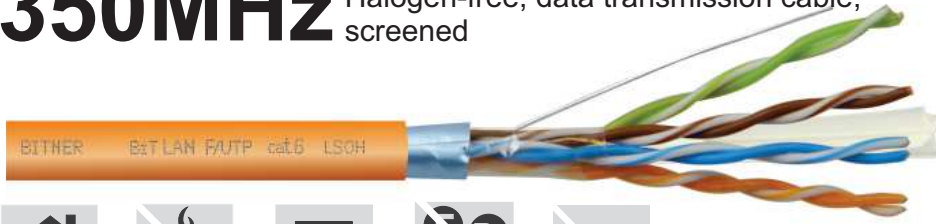


BiTLAN F/UTP cat.6 LSOH

350MHz

Halogen-free, data transmission cable, screened



internal application



EN 60332-1



data transmission



halogen-free
EN 60754



low smoke emission
EN 61034



RoHS 2011/65/EU



LVD 2014/35/EU



CPR 305/2011



2 years warranty

Technical data:

Temperature range:

Operating temperature: -30°C to +70°C

Min. installation temp: -10°C

Bending radius: 6xØ

Conductor diameter: 0,54±0,015mm

Insulated core diameter: 1,06±0,05mm

DC loop resistance at 20°C (max): 165Ω/km

Insulation resistance (min): 5GΩxkm

Resistance unbalance: ≤2%

Capacitance at 1 kHz: 50±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: 67%

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):

100mΩ/m

Construction:

Conductors: solid round copper conductors

Insulation: special polyolefin compound

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

Core arrangement: cores twisted in pairs, pairs twisted together with a cross spacer

Screen: aluminium backed polyester tape and tinned copper drain wire

Outer sheath: special LSOH compound

Outer sheath colour: orange RAL 2003

Marking: BITNER BiTLAN F/UTP 4x2x23AWG(0,54) cat.6 350MHz LSOH
EN 50173-1 ISO/IEC 11801 ANSI/TIA 568-C.2 ID no. CE RoHS
www.bitner.com.pl meters

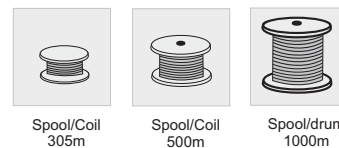
Application:

BiTLAN F/UTP cat. 6 LSOH cables are applicable to computer networks with operating frequency band up to 350MHz. Suitable for transmission of data, audio and video signals, with bitrate up to 1Gb/s. Additional collective Al/Pet screen 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)**.

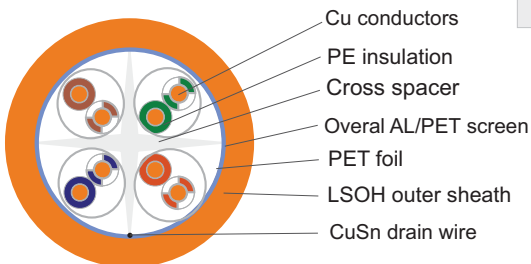
Packaging:



Spool/Coil
305m

Spool/Coil
500m

Spool/drum
1000m



Cu conductors

PE insulation

Cross spacer

Overall AL/PET screen

PET foil

LSOH outer sheath

CuSn drain wire

Cat. no	Construction	Cu wire	O.D. [mm]	CPR classification EN 50575	Cu [kg/km]	Cable weight [kg]	Bandwidth [MHz]
T10050	F/UTP cat.6 LSOH	23AWG	7,3	Dca-s2,d0,a1	22	52	350

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

BiTLAN F/UTP cat.6 LSOH

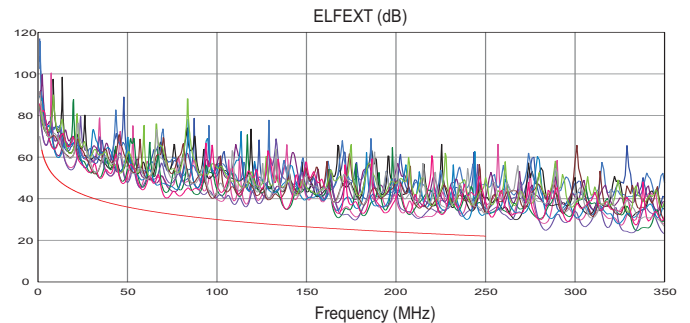
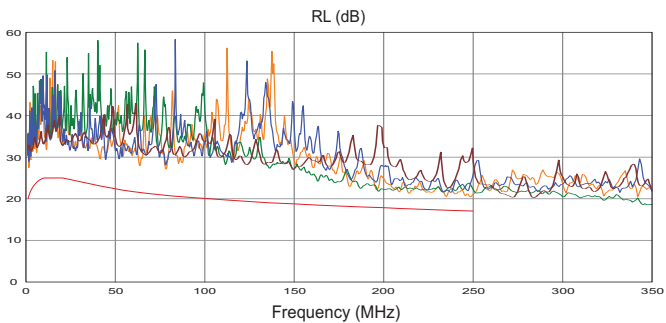
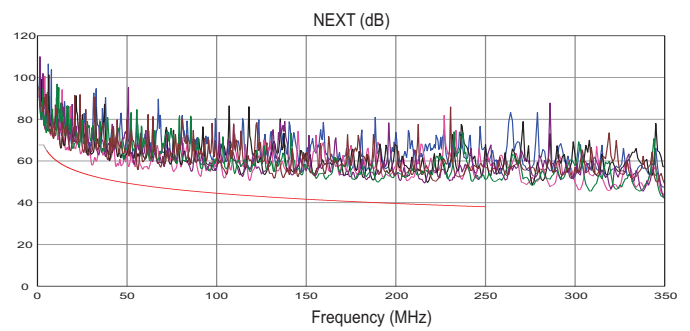
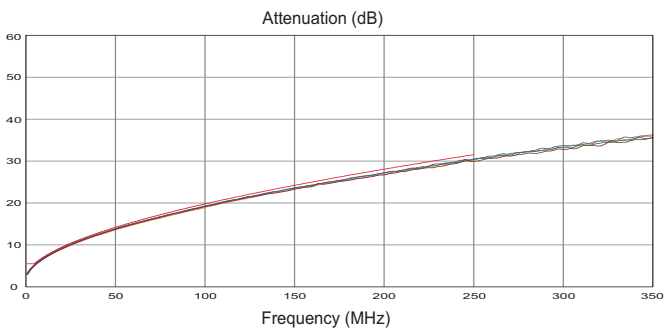
350MHz

Halogen-free, data transmission cable, screened

Performance test charts and data:

Frequency MHz	1	4	10	16	20	30	45	60	80	100	120	150	180	200	220	250	280	300	320	350
Attenuation \leq dB/100m	2,1	3,8	6,0	7,6	8,5	10,5	13,0	15,1	17,7	19,9	22,0	24,8	27,5	29,1	30,7	33,0	35,2	36,6	38,0	40,0
NEXT \geq dB/100m	66,0	65,3	59,3	56,2	54,8	52,1	49,5	47,6	45,8	44,3	43,1	41,7	40,5	39,8	39,2	38,3	37,6	37,1	36,7	36,1
PS NEXT \geq dB/100m	64,0	63,3	57,3	54,2	52,8	50,1	47,5	45,6	43,8	42,3	41,1	39,7	38,5	37,8	37,2	36,3	35,6	35,1	34,7	34,1
ELFEXT \geq dB/100m	66,0	58,0	50,0	45,9	44,0	40,5	36,9	34,5	32,0	30,0	28,4	26,5	24,9	24,0	23,1	22,0	21,0	20,5	19,9	19,1
PS ELFEXT \geq dB/100m	64,0	55,0	47,0	42,9	41,0	37,5	33,9	31,4	28,9	27,0	25,4	23,5	21,9	21,0	20,1	19,0	18,0	17,5	16,9	16,1
RL \geq dB	20,0	23,0	25,0	25,0	25,0	23,8	22,5	21,7	20,8	20,1	19,5	18,9	18,3	18,0	17,7	17,3	17,0	16,8	16,6	16,3

Transmission parameters graphs - examples of measurement results



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