

# BiTLAN U/UTP cat.6 LSOH

## 350MHz Data transmission cable



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:** 4xØ

**Conductor diameter:** 0,54±0,015mm

**Insulated core diameter:** 0,975±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)

### 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 circular filling element

**Outer sheath:** special LSOH compound

**Outer sheath colour:** orange RAL 2003

**Marking:** BITNER BiTLAN U/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](http://www.bitner.com.pl) meters

### Application:

BiTLAN U/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. 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 not 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:



Box  
(305m)



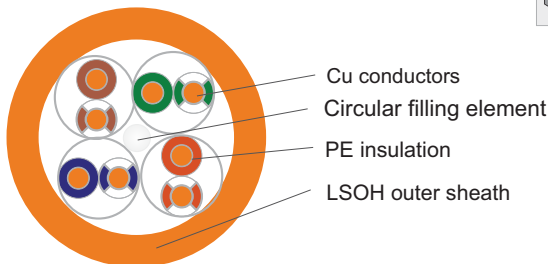
Pallet 9150m  
(30x305m)



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]
TI0049	U/UTP cat.6 LSOH	23AWG	5,8	Dca-s2,d0,a1	20	38	350

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

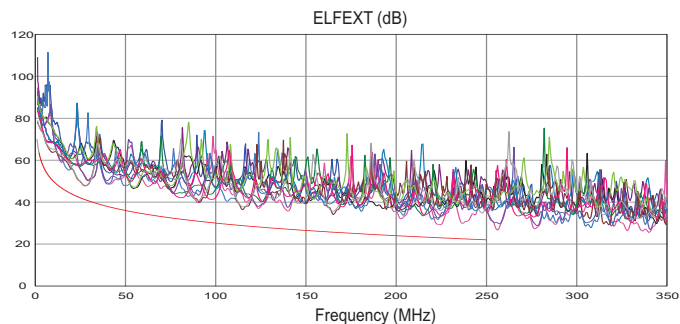
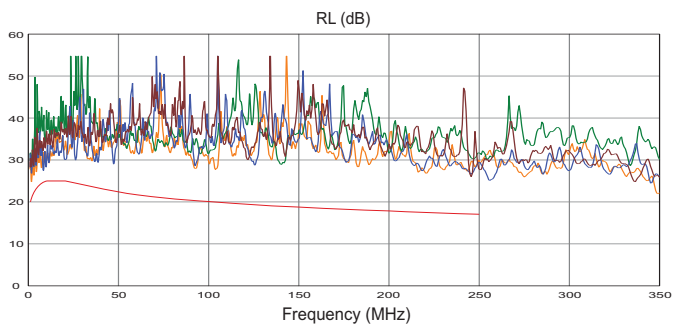
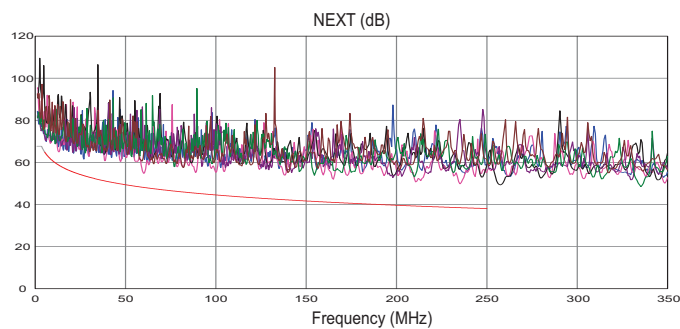
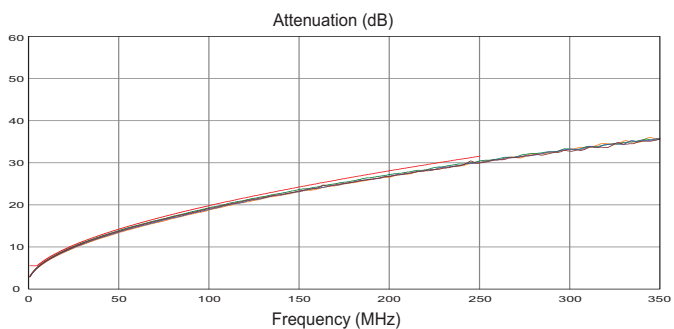
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## 350MHz Data transmission cable

### 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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