

BiTLAN U/UTP cat.6 LSOH B2ca

350MHz

Halogen-free, data transmission cable



BITNER BiTLAN U/UTP cat.6 LSOH B2ca



Technical data:

Temperature range:

Operating temperature: -30°C to +70°C

Min. installation temp: -10°C

Bending radius:

during operation: $\geq 8 \times O.D.$

during installation: $\geq 8 \times O.D.$

Conductor diameter: $0,54 \pm 0,015 \text{ mm}$

Insulated core diameter: $0,985 \pm 0,05 \text{ mm}$

DC loop resistance at 20°C (max): $165 \Omega/\text{km}$

Insulation resistance (min): $5 \text{ G}\Omega \cdot \text{km}$

Resistance unbalance within a pair: $\leq 2\%$

Mutual capacitance at 1 kHz: $50 \pm 5 \text{ nF}/\text{km}$

Capacitance unbalance pair to ground at 1 kHz (max): $1600 \text{ pF}/\text{km}$

Nominal voltage: 150V

Test voltage - 1min:

AC 50 Hz: 700V

DC: 1000V

Characteristic impedance at 100MHz:

$100 \pm 5 \Omega$

NVP value: 67%

Return loss dB (min):

$f = 4\text{--}10 \text{ MHz: } 20 + 5 \times \log_{10}(f)$

$f = 10\text{--}20 \text{ MHz: } 25$

$f = 20\text{--}350 \text{ MHz: } 25 - 7 \times \log_{10}(f/20)$

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, others colours available on customer's request

Marking: BITNER BiTLAN U/UTP 4x2x23AWG(0,54) cat.6 350MHz LSOH B2ca
EN 50173-1 ISO/IEC 11801 ANSI/TIA 568-C.2 ID no. CE RoHS
www.bitner.com.pl meters

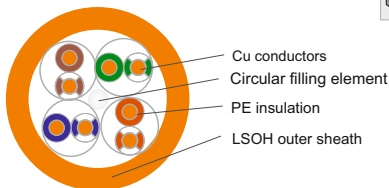
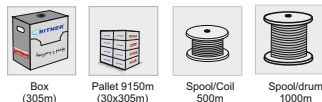
Application:

BiTLAN U/UTP cat. 6 LSOH B2ca 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 61034-1(2) and limited emission of corrosive gases acc. to EN 50267, IEC 60754-2 should be installed in places with increased fire safety requirements.

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

Packaging:



Cat. no.	Construction	Cu wire	O.D. [mm]	CPR classification EN 50575	Cu [kg/km]	Cable weight [kg/km]	Bandwidth [MHz]
TI0119	U/UTP cat.6 LSOH B2ca	23AWG(0,54)	6,1	B2ca-s1a,d1,a1	19	47	350

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

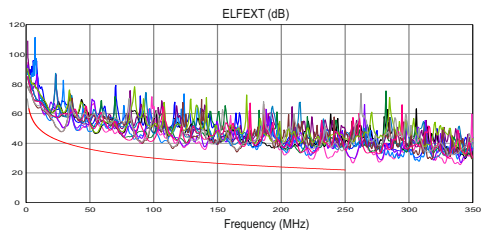
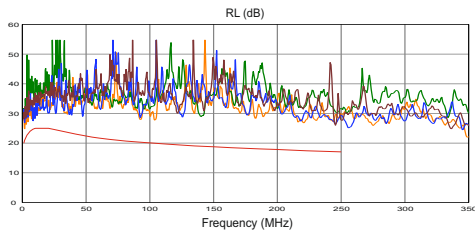
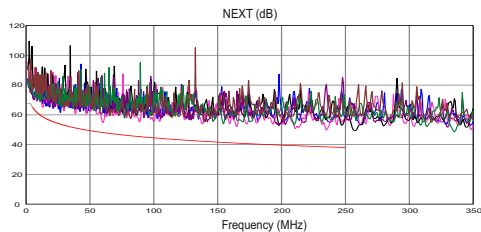
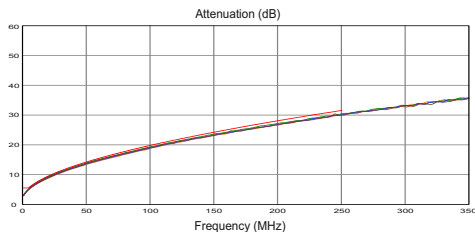
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Requirements of teletransmission data:

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	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	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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