

BiTLAN U/UTP cat.5e outdoor

200 MHz

Data transmission cable suitable
for external applications

RoHS 2011/65/EU



LVD 2014/35/EU



CPR 305/2011

internal
applicationexternal
application

data transmission



UV resistance

oil resistant
EN 60811-404

Technical data:

Temperature range:

Operating temperature: -30°C to +80°C

Min. installation temp: -10°C

Bending radius: 6xØ

Conductor diameter: 0,5±0,015mm

Insulated core diameter: 0,86±0,05mm

DC loop resistance at 20°C (max): 190Ω/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:

AC 50 Hz: 700V

DC: 1000V

Characteristic impedance: 100±5Ω

NVP value: 69%

Return loss (min):

f = 4÷10MHz: 20+5lg(f)

f = 10÷20MHz: 25

f = 20÷200MHz: 25-7lg(f/20)

Construction:

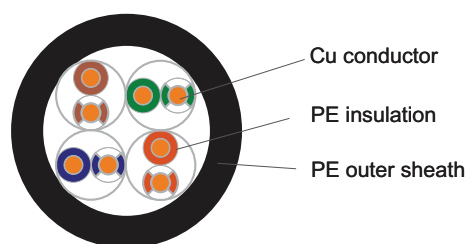
Conductors: solid round copper conductors**Insulation:** special polyolefin compound**Core identification:** wh/bu-bu, wh/or-or, wh/gn-gn, wh/bn-bn**Core arrangement:** cores twisted in pairs, pairs twisted together**Outer sheath:** polyethylene PE**Outer sheath colour:** black

Marking: BITNER BiTLAN U/UTP 4x2x24AWG(0,5) cat.5e outdoor 200MHz
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. 5e outdoor cables are applicable to computer networks with operating frequency band up to 200MHz. Suitable for transmission of data, audio and video signals with bitrate up to 1Gb/s. Dedicated for fixed installations within outdoor 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. UV resistant outer sheath enables external application. Cables classified according to **EN 50575 (CPR)**.

Packaging:

Box
(305m)Pallet 9150m
(30x305m)Spool/Coil
500mSpool/drum
1000m

Cu conductor

PE insulation

PE outer sheath

Cat. no	Construction	Cu wire	O.D. [mm]	CPR classification EN 50575	Cu [kg/km]	Cable weight [kg]	Bandwidth [MHz]
TI0094	U/UTP cat.5e outdoor	24AWG	5,7	Fca	15	32	200

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

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Performance test charts and data:

Frequency MHz	1	4	10	16	20	30	45	60	80	100	120	130	155	175	200
Attenuation \leq dB/100m	2,1	4,0	6,3	8,0	9,0	11,2	13,9	16,2	18,9	21,3	23,6	24,7	27,2	29,2	31,5
NEXT \geq dB/100m	65,3	56,3	50,3	47,2	45,8	43,1	40,5	38,6	36,7	35,3	34,1	33,6	32,4	31,6	30,8
PS NEXT \geq dB/100m	62,3	53,3	47,3	44,2	42,8	40,1	37,5	35,6	33,8	32,3	31,1	30,6	29,5	28,6	27,8
ELFEXT \geq dB/100m	63,8	51,8	43,8	39,7	37,8	34,3	30,7	28,2	25,7	23,8	22,2	21,5	20,0	19,0	17,8
PS ELFEXT \geq dB/100m	60,8	48,8	40,8	36,7	34,8	31,3	27,7	25,2	22,7	20,8	19,2	18,5	17,0	16,0	14,8
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	19,3	18,8	18,4	18,0

Transmission parameters graphs - examples of measurement results

