

BiTLAN U/UTPs cat.5e outdoor

200 MHz

Data transmission cable suitable
for external applications, self-supporting

RoHS 2011/65/EU



LVD 2014/35/EU

CPR

CPR 305/2011

2 years
warrantyexternal
application

data transmission



UV resistance

oil resistant
EN 60811-404

self-supporting

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: 0,83±0,05mm

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

Insulation resistance (min): 5GΩxkm

Resistance unbalance: ≤2%

Capacitance at 1kHz: 50±5nF/km

Capacitance unbalance at 1kHz (max):

1600pF/km

Nominal voltage: 150V

Test voltage:

AC 50Hz: 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**Self-support:** steel wire**Outer sheath:** polyethylene PE**Outer sheath colour:** black**Marking:** BITNER BiTLAN U/UTPs 4x2x24AWG(0,5) cat.5e outdoor 200MHz

EN 50173-1 ISO/IEC 11801 ANSI/TIA 568-C.2 ID co. CE RoHS

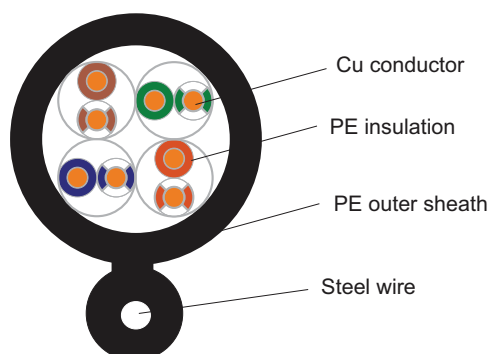
www.bitner.com.pl meters

Application:

BiTLAN U/UTPs 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. UV resistant outer sheath enables external application in self-supporting installations.

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

Packaging:

Spool/Coil
500mSpool/drum
1000m

Cu conductor

PE insulation

PE outer sheath

Steel wire

| Cat. no | Construction | Cu wire | O.D. [mm] | CPR classification EN 50575 | Cu [kg/km] | Cable weight [kg] | Bandwidth [MHz] |
|---------|--------------------------|---------|--------------|-----------------------------------|---------------|----------------------|--------------------|
| TI0095 | U/UTPs cat.5e outdoor | 24AWG | 5,3x10,3 | Fca | 15 | 53 | 200 |

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

BiTLAN U/UTPs cat.5e outdoor

200 MHz

Data transmission cable suitable
for external applications, self-supporting

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

