

BiTLAN F/UTPs cat.5e outdoor

200 MHz

Data transmission cable, screened, suitable for external applications, self-supporting



external application



data transmission



UV resistance



oil resistant
EN 60811-404



self-supporting

RoHS 2011/65/EU



LVD 2014/35/EU



CPR 305/2011



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: 0,92±0,05mm

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

Insulation resistance (min): 5GΩxkm

Resistance unbalance: ≤2%

Capacitance at 1 kHz: 50±5 nF/km

Capacitance unbalance at 1 kHz (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)

Coupling attenuation within the range of 30÷100MHz (min.): 55dB

Transfer impedance at 10MHz (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

Screen: aluminium backed polyester tape and tinned copper drain wire

Self-support: steel wire

Outer sheath: polyethylene PE

Outer sheath colour: black

Marking: BITNER BiTLAN F/UTPs 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

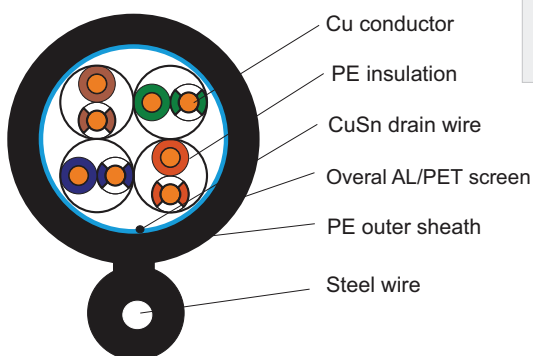
Application:

BiTLAN F/UTPs cat. 5e outdoor cables are applicable to computer networks with operating frequency band up to 200 MHz. Suitable for transmission of data, audio and video signals, with bitrate up to 1 Gb/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.

UV resistant outer sheath enables external application in self-supporting installations.

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

Packaging:



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] |
|---------|-----------------------|---------|-----------|-----------------------------|------------|-------------------|-----------------|
| T10093 | F/UTPs cat.5e outdoor | 24AWG | 6,5x10,7 | Fca | 16 | 61 | 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

