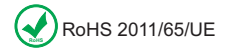


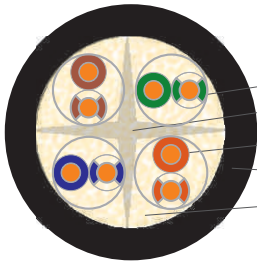
# BiTLAN U/UTPf cat.6 outdoor

## 350 MHz

Data transmission cable suitable for external applications



BITNER BiTLAN U/UTPf cat. 6 outdoor



- Cu conductors
- Cross spacer
- PE insulation
- PE outer sheath
- Jelly filling

### Technical data:

#### Temperature range:

Operating temperature: -30°C to +80°C  
Installation temperature: -10°C to +50°C

**Bending radius:** 6xO.D.

**DC loop resistance at 20°C (max):**

165 Ω/km

**Insulation resistance (min):** 5GΩ x km

**Resistance unbalance:** ≤ 2%

**Capacitance at 1 kHz:** 50 ± 5 nF/km

**Capacitance unbalance at 1kHz (max):**

1600 pF/km

**Nominal voltage:** 150V

**Test voltage:**

AC: 50 Hz: 700V

DC: 1000V

**Characteristic impedance:** 100 ± 5Ω

**NVP value:** 67%

**Return loss (min):**

f = 4÷10 MHz: 20 + 5lg(f)

f = 10÷20 MHz: 25

f = 20÷350 MHz: 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 cross spacer

**Filling:** hydrophobic jelly filling

**Outer sheath:** special PE (UV)

**Outer sheath colour:** black

### Application:

BiTLAN U/UTPf cat. 6 outdoor cables are applicable to computer networks with operating frequency band up to 350 MHz. Suitable for transmission of data, audio and video signals, with bitrate up to 1 Gb/s. Cables are filled with gel preventing water ingress. UV resistant outer sheath enables external application and direct burial.



External application



Underground installation



Data transmission



UV resistant



oil resistance  
EN 60811-2-1

ID	Construction	Cu wire	O.D. [mm]	Cu [kg/km]	Cable weight [kg]	Bandwidth [MHz]
T10054	U/UTPf cat.6 outdoor	23AWG(0,54)	6,5	21	50	350

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	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

