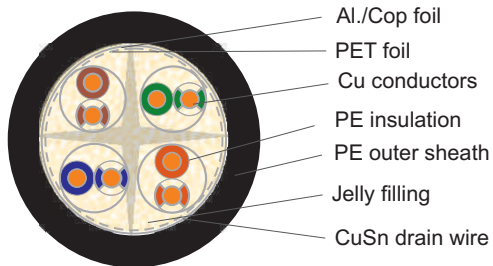
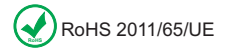


BiTLAN F/UTPf cat.6 outdoor

350 MHz

Data transmission cable, screened and suitable for external applications



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 1 kHz (max):

1600 pF/km

Nominal voltage: 150 V

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)

Coupling attenuation for 30 ÷ 350 MHz

(min.): 75dB

Transfer impedance for 10 MHz (max):

10 mΩ/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

Filling: hydrophobic jelly filling

Screen: Al./Cop foil with CuSn drain wire

Outer sheath: special PE (UV)

Outer sheath colour: black

Application:

BiTLAN F/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. Additional Al./Cop foil and CuSn drain wire act as a screen protecting against external interferences and as a moisture barrier. Cables are also 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]
TI0055	F/UTPf cat.6 outdoor	23AWG(0,54)	7,3	22	61	350

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

BiTLAN F/UTPf cat.6 outdoor

350 MHz

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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

