

BiTLAN S/FTP cat.6A outdoor

500 MHz

Data transmission cable

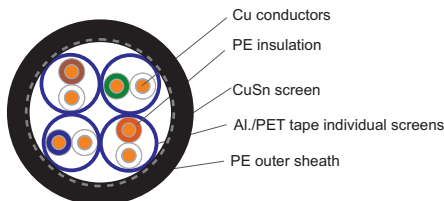
BITNER BiTLAN S/FTP cat.6A outdoor



RoHS 2011/65/UE



LVD 2006/95/WE



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):

145 Ω/km

Insulation resistance (min): 5GΩ x km

Resistance unbalance: ≤ 2%

Capacitance at 1 kHz: 45 ± 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: 77%

Return loss (min):

f = 4÷10 MHz: 20+5lg(f)

f = 10÷20 MHz: 25

f = 20÷500 MHz: 25-7lg(f/20)

Coupling attenuation for 300÷1000 MHz

(min.): 55 dB

Transfer impedance for 10MHz (max):

50 mΩ/m

Construction:

Conductors: solid round copper conductors

Insulation: special foam-skin polyolefin compound

Core identification: wh/bu, wh/or, wh/gn, wh/bn

Core arrangement: cores twisted in pairs, pairs twisted together

Screen 1: pairs individually screened with aluminum backed polyester tape

Screen 2: tinned copper wire braid

Outer sheath: special PE (UV)

Outer sheath colour: black

Application:

BiTLAN S/FTP cat.6A PE outdoor cables are applicable to computer networks with operating frequency band up to 500 MHz. Suitable for transmission of data, audio and video signals with bitrate up to 10 Gb/s. Dedicated for fixed installations within structured cabling systems as per EN 50173-1:2011, ISO/IEC 11801 2nd ed., ANSI/TIA 568-C.2 standards, as well as within industrial networks exposed to external electromagnetic interferences. Additional Al./PET and CuSn screen protect against external interferences. Black PE UV resistant outer sheath enables external application and direct burial.



external
application



data
transmission



UV resistant



oil resistant
EN 60811-2-1

ID	Construction	Cu wire [mm]	O.D. [mm]	Cu [kg/km]	Cable weight [kg]	Bandwidth [MHz]
	S/FTP cat.6A PE	23AWG	8,6	28	63	500

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

BiTLAN S/FTP cat.6A outdoor

500 MHz

Data transmission cable

Performance test charts and data:

Frequency Mhz	1	4	10	16	20	31,25	62,5	100	125	155	175	200	250	300	500
Attenuation ≤ dB/100m	2,1	3,8	5,9	7,5	8,4	10,5	15,0	19,1	21,5	24,1	25,7	27,6	31,1	34,3	45,3
NEXT ≥ dB/100m	75,3	66,3	60,3	57,2	55,8	52,9	48,4	45,3	43,8	42,4	41,7	40,8	39,3	38,1	34,8
PS NEXT ≥ dB/100m	72,3	63,3	57,3	54,2	52,8	49,9	45,4	42,3	40,8	39,4	38,7	37,8	36,3	35,1	31,8
ELFEXT ≥ dB/100m	68,0	56,0	48,0	43,9	42,0	38,1	32,1	28,0	26,1	24,2	23,1	22,0	20,0	18,5	14,0
PS ELFEXT ≥ dB/100m	65,0	53,0	45,0	41,9	39,0	35,1	29,1	25,0	23,1	21,2	20,1	19,0	17,0	15,5	11,0
RL ≥ dB	20,0	23,0	25,0	25,0	25,0	23,6	21,5	20,1	19,4	18,8	18,4	18,0	17,3	17,3	17,3

