

BiTsound® LP0504 Multi Hybrid Cable Power 3G1,5 + DMX 2x(2x0,25) + MOBILE DATA PATCHCORD 2xU/UTP cat. 5e OFC

Flexible, hybrid cable with power conductors, designed for computer networks



HYBRID CABLES

Technical data:

Operating temperature:

Fixed installation -30°C to 70°C
Flexible connections -5°C to 50°C

Min. installation temperature: -5°C

Test voltage: power cable 50Hz: 2000V

Capacitance: U/UTP (at 1kHz):

conductor/conductor: ≤ 60nF/km

Capacitance: DMX cable (at 1kHz):

conductor/conductor: ≤ 60nF/km

Conductor/screen: ≤ 115nF/km

Impedance (at 100MHz): U/UTP: 100Ω±5

Impedance: DMX cable: 110Ω±10

Min. insulation resistance: U/UTP: 1,0GΩxkm

Min. insulation resistance: DMX: 1,0GΩxkm

Min. insulation resistance: power conductor: 20MΩxkm

Insulated conductor diameter: U/UTP: 0,97 ± 0,05mm

Min. bending radius: 5xØ (Ø - cable diameter)



Construction:

U/UTP:

Cores: tinned copper conductors, multi-stranded (26AWG/7 (0,18mm²))

Insulation: special PE

Core identification in pairs:

1st pair: blue, white-blue

2nd pair: orange, white-orange

3rd pair: green, white-green

4th pair: brown, white-brown

Core arrangement: cores twisted in pairs; pairs twisted together on a centrally located cross spacer

Sheath: special PVC

Sheath colour: black

DMX:

Cores: tinned copper conductors, multi-stranded (8x0,20)

Insulation: special PE

Core identification: white, red

Core arrangement: cores twisted together

Screen: aluminium backed polyester tape with tinned copper drain wire underneath and tinned copper wire braid with coverage min. 85%

Sheath: special PVC

Sheath colour: black

Power cable:

Cores: bare copper, multi-stranded class 5, acc. to EN 60228

Insulation: special PVC

Core identification: brown, blue, green-yellow

Core arrangement: cores twisted together

Screen: aluminium backed polyester tape with tinned copper drain wire

Sheath: special PVC

Sheath colour: black

Hybrid:

Core arrangement: power cable, 2xDMX and 2xU/UTP twisted together with fillers

Sheath: special PVC, self-extinguishing and flame retardant acc. to EN 60332-1

Sheath colour: black, matt

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Application:

BiTsound® LP0504 Multi Hybrid Cable Power 3G1,5 + DMX 2x(2x0,25) + MOBILE DATA PATCHCORD 2xU/UTP cat. 5e is composed of data transmission cable designed for computer networks with frequency up to 100 MHz and bandwidth up to 1 Gb/s, power cable and DMX cable designed for transmitting digital signals e.g. in lighting or stage motion systems. DMX is double screened with tinned copper wire braid and AL/PET tape with additional drain wire what ensures very good protection against external interferences. U/UTP is suitable for transmitting data, audio and visual HDTV signals and can be used in control systems. Matt outer sheath eliminates the light reflection effect.

BiTsound® LP0504 Multi Hybrid Cable Power 3G1,5 + DMX 2x(2x0,25) + MOBILE DATA PATCHCORD 2xU/UTP cat. 5e is classified in accordance with **EN 50575 (CPR)**.

Cable properties:

- high impact strength and flexibility at both room and low temperatures
- high flexibility
- matt outer sheath eliminating the light reflection effect

Cat.no.	Colour	nx2xAWG	Nominal O.D. [mm]	Nominal weight [kg/km]	Max. resistance of power conductors 1,5mm ² DC at 20°C [Ω/km]	DC loop resistance 0,25mm ² at 20°C [Ω/km]
LP0504	black	3G1,5+2x(2x0,25)+2x(4x2x26AWG/7)	18,6	378	13,3	79

Cable Factory BITNER reserves the right to modify the specifications without prior notice.
Note: On customer's request other cross sections or number of cores can be produced.