

# BiTsound® LP0505 Digital Hybrid Cable Power 2x1,5 + DMX 2x(2x0,25) OFC

Flexible hybrid cable for transmitting digital signals

HYBRID CABLES



internal application



external application



high flexibility



mechanical resistance



data transmission



EMC



FastConnect



low operating temperature

## Technical data:

### Operating temperature:

Fixed installation: -30°C to 70°C

Flexible connections: -5°C to 70°C

**Min. installation temperature:** -5°C

**Test voltage (power cable, 50Hz):** 2000V

**Capacitance (DMX cable, 1kHz):**

Conductor/conductor: ≤ 60nF/km

Conductor/screen: ≤ 115nF/km

**Impedance (DMX cable):** 110Ω±10

**Min. insulation resistance (DMX cable):** 1,0GΩxkm

**Min. insulation resistance (power cable):** 20MΩxkm

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

## Construction:

### DMX cable:

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

**Insulation:** polyethylene PE

**Core marking in DMX cables:** wire no. 1: white, red; wire no. 2: yellow, brown

**Core arrangement:** parallel twisted cores

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

### Power cable

**Conductors:** multi-wire copper, stranded class 5 acc. to EN 60228

**Insulation:** special PVC

**Core identification:** red and black

### Hybrid:

**Core arrangement:** power wires and DMX cables twisted in parallel

**Inner shell:** special PVC blend

**Shell color:** black

**Outer coating:** special PUR coating polyurethane, resistant to petroleum substances and industrial coolants, as well as to hydrolysis

**Shell color:** gloss black

## Application:

Hybrid is a connection of cables intended for digital network communication (e.g. in lighting systems, stage effects control systems) and power cable. DMX cable is double screened with tinned copper wire braid and AL/PET tape with an additional grounding conductor improves the protection of transmitted signals against the influence of an external electromagnetic field. The cable is dedicated to professional and studio applications.

Cables are classified in accordance with **EN 50575 (CPR)**.

## Cable properties:

- impact strength and flexibility at both low and room temperatures
- high flexibility

Cat. no.	Color	nxmm <sup>2</sup>	Diameter [mm]	Weight [kg/km]	Max. working conductor resistance 1,5mm <sup>2</sup> DC at 20°C [Ω/km]	Max. working conductor resistance 0,23mm <sup>2</sup> DC at 20°C [Ω/km]
LP0505	black	2x1,5+2x(2x0,25)	11,0	135	13,3	79

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

