EA8304S-Ed1

# INDOOR FTP DATA CABLES - CATEGORY 3 -LSZH SHEATH

Data cable | Flame retardant | Low smoke emission | Zero halogen | ROHS compliant

## STANDARDS

Construction: TIA/EIA-568-B, ISO/IEC 11801
Complementary: EN 50265-1-2, EN 50267-2-2, EN 50268-2 and NF C20-454

## DESCRIPTION AND APPLICATION

Indoor telecommunication cables up to 100 pairs, conductors of 0.51 mm, PE insulation, Lay-up into pairs in units of 25. Grey LS0H material sheath with a polyester-aluminum screen (FTP). Indoor installation for data transmission of horizontal cabling system and backbone Category 3 or class A, B or C as defined by the EIA / TIA 568A and ISO / IEC 11801 standard. Cable flame retardant, halogen-free and low smoke emission.

## CONSTRUCTION

- ***Conductors***: Annealed copper, diameter of 0.51 mm.
- ***Insulation***: Solid HDPE.
- ***Cabling elements***: Pairs.
- ***Lay-up***. Up to 25 pairs into layers. Cables above in units of 25 pairs.
- ***Screen***: Alumimum- polyester tape (PET).
- ***Sheath***: grey LS0H material.
- ***Sheath marking***: The outer sheath shall be marked at regular intervals with the following information:
  - *Name of Manufacturer / year / Length markings*
  - *Other type of markings is also possible according to the customer*

| **ELECTRICAL CHARACTERISTICS (20ºC)** | 0,51 |
|---|---|
| *Maximum loop resistance (Ω/km)* | 93,8 |
| *Máximum resistance umbalance (%) 100x($R_{max}$-$R_{min}$)/$R_{min}$* | 5,0 % |
| *Minimum insulation resistance (MΩxkm, 15ºC, 500 V)* | 20000 |
| *Maximum mutual capacitance (nF/km, 800 Hz)* | 66 |
| *Capacitance umbalance pair-earth (pF/100m, 800 Hz)* | 330 |
| *Dielectric strength (Vcc, 3 s)* | |
| conductor – conductor | 2500 |
| conductor - screen | 5000 |





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Certified Company **ISO 9001** - **ISO 14001**

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| **TRANSMISSION CHARACTERISTICS (20ºC)** | 0,51 |
|---|---|
| *Characteristic impedance (Ω,* 1-16 MHz) | 100±15 |
| *Structural return Losses SRL (dB, 1-16 MHz). Minimum value*<br>• *De 1 a 10 MHz*<br>• *De 10 a 16 MHz*<br>Nota: f in MHz | 12<br>$SRL > 12 - 10\log\left(\frac{f}{10}\right)$ |
| *Insertion losses IL (dB/km, 772 KHz a 16 MHz)*<br>Nota: f in MHz | $IL < 2{,}32\sqrt{f} + 0{,}238f$ |
| *Minimum NEXT PS (PSNEXT, dB/100 m, 772 KHz a 16 MHz, group of 25 pairs)*<br>Note: f in MHz | $PSNEXT\ (25) > 23 - 15\log\left(\frac{f}{16}\right)$ |

## MECHANICAL CHARACTERISTICS

Temperature range: from -25º C to +75º C

Minimum bending radius: 12 x $R_{cable}$

## DIMENSIONS AND WEIGHTS

| Diameter : 0.51 mm | | | | | |
|---|---|---|---|---|---|
| Code | #. Pairs | Cable diam (mm) | Weight approx. (kg/km) | Length (m) | Drum |
| EA8302051002502N | 25 | 14.0 | 256 | 1000 | 08 |
| EA8302051005002N | 50 | 17.0 | 397 | 1000 | 08 |
| EA8302051010002N | 100 | 22.0 | 670 | 1000 | A2 |





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