

## PRESENTATION

This is an unshielded data cable for high flow transmission in local computer networks (LAN). Its transmission capacity may reach 130 Mbits/s. It's suitable for the transmission of images, voice and data.

## REFERENCE STANDARDS

ANSI / EIA-B-2; ISO / IEC 11801 and EN 50288

## CABLE STRUCTURE

### 1- Conductors

Conductors consists of a solid copper with a nominal diameter of 0.51 mm (AWG24)

### 2- Insulation

Conductors are insulated by a solid polyethylene layer. The thickness of insulation is such that the electrical and transmission characteristics are met.

### 3- Stranding

- Cabling element: Insulated conductors are assembled in pairs.
- Cabling of elements: four pairs are assembled together.

### 4- Outer Sheath

Outer sheath consists of PVC in accordance with NF EN C 50290-2-22. It is unleaded and flame retardant. (Category C2 according to NFC 32070 2.1 or EN 50265-2-2). It may be thermoplastic without halogens (LSZH). The color of the sheath is selected by the customer. A polyester rope is placed under the sheath to help split the sheath while cabling.



## ELECTRICAL CHARACTERISTICS

Conductor maximum electric resistance	90 Ω /km
Test voltage (1mn )	1 kV
Insulation resistance (200VCC)	> 5000 MΩ .km
Nominal mutual capacitance at 800 Hz	55 nF/km
Input impedance	100± 20 Ω
Nominal velocity of propagation	66 % de C.

## TRANSMISSION CHARACTERISTICS

Frequency (Mhz)	Attenuation (dB/100m)	Minimum Near End CrossTalk NEXT (db)	ACR (dB)
1	2,1	65,3	63,2
4	4,3	56,3	52
10	6,6	50,3	43,7
16	8,2	47,3	39,1
20	9,2	45,8	36,6
31,25	11,8	42,9	31,1
62,5	17,1	38,4	21,3
100	22,0	35,3	13,3

## ENVIRONMENTAL CHARACTERISTICS

- Flame retardant - Category C2 NFC 32070 2.1
- Operating temperature -10° C 70° C
- Maximum voltage use 180V
- These cables do not contain any substance referred to in the European Decree N° 2002/95/EC (RoHS) of January 27, 2003, relating to limiting the use of certain dangerous substances in electric and electronic equipment.