

## SERIE 298. UNSCREENED CABLE FOR INDOORS. PVC SHEATH



Telecommunication  
Cable



Flame  
retardant



ROHS compliant

### STANDARDS

Construction: UTE C93-530, UTE C93-531-11 and ST/FTR&D/6291

Complementary: NF C 32-070 2.1 Cat 2

### DESCRIPTION AND APPLICATION

Telecommunication cable of 4 pairs. Copper conductor of 0.5 mm, insulated with solid PE. Stranded into pairs with PVC unshielded sheath. Telecommunication cable intended for indoor customer locations. It can support the transmission of signals up to 100 MHz (Category 5e or class D according to EN 50173). Ranked category C2 reaction to fire (flame retardant).

### CONSTRUCTION

- **Conductors:** Annealed copper, diameter of 0.5 mm.
- **Insulation:** Solid PE.
- **Cabling elements:** Pairs.
- **Lay-up:** 4 pairs stranded. Colours: G/W, R/Bl, Or/Y, Vi/Br.
- **Sheath:** Unleaded PVC. Ivory colour with ripcord.
- **Sheath marking:** Without marks.



### ELECTRICAL CHARACTERISTICS (20°C)

Conductor resistance ( $\Omega/\text{km}$ )	95,9
Insulation resistance ( $M\Omega \times \text{km}$ , 20°C, 500 V)	5000
Dielectric strength (Vdc, 1 min) conductor – conductor	1150

All drawings, designs, specifications and particulars of weights, dimensions, etc. in this documentation are only indicative and must not be considered contractual.

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### TRANSMISSION CHARACTERISTICS (20°C)

Characteristic impedance ( $\Omega$ , 1 – 100 MHz)

- Input impedance 100±15
- Average impedance 100±5

Attenuation (dB/100 m)

0,064 MHz	0,8
0,256 MHz	1,1
0,512 MHz	1,5
0,772 MHz	1,8
1 MHz	2,1
4 MHz	4,3
10 MHz	6,6
16 MHz	8,2
20 MHz	9,2
31,25 MHz	11,8
62,5 MHz	17,1
100 MHz	22

NEXT (dB/100 m)

1 MHz	> 62
4 MHz	> 53
10 MHz	> 47
16 MHz	> 44
20 MHz	> 42,5
31,25 MHz	> 39,5
62,5 MHz	> 35
100 MHz	> 32

ELFEXT (dB/100 m)

1 MHz	> 60
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### MECHANICAL CHARACTERISTICS

Temperature range: -25° C to +75° C

Bending radius: 10 x R<sub>cable</sub>

### DIMENSIONS AND WEIGHTS

Diameter : 0.50 mm				
Code	# Pairs	Diam (mm)	Weight (Kg/km)	Length (m)
EA8512051000400N	4	5,3	30	300

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