



## Construction

|                         |   |
|-------------------------|---|
| <b>Conductor</b>        | Bare copper wire<br>Diameter: AWG24 (Aprox. 0,51mm)     |
| <b>Insulation</b>       | Polyolefyn  |
| <b>Assembly</b>         | Two insulated conductors twisted together as a pair     |
| <b>Pair Screen</b>      | -   |
| <b>General assembly</b> | 4 twisted pairs laid up together                        |
| <b>Overall screen</b>   | -   |
| <b>Inner sheath</b>     | PVC   |
| <b>Armour</b>           | Corrugated Aluminium tape, overlapped<br>Coverage: 100% |
| <b>Outer sheath</b>     | PE (Polyethylene)<br>Colour: Black                      |

## Technical characteristics

|                                 |   |
|---------------------------------|---|
| <b>Outer diameter</b>           | 11.5 mm Aprox.  |
| <b>Weight</b>                   | 132 Kg/Km   |
| <b>Operating T<sup>a</sup></b>  | Fixed installation: -20°C a +70°C<br>During installation: 0°C a +50°C |
| <b>Min. bending radius</b>      | 15xD  |
| <b>Conductor resistance</b>     | 95 Ohm/Km Max.  |
| <b>Mutual capacitance</b>       | Nominal 56 pF/m (at 1KHz)   |
| <b>Characteristic Impedance</b> | 100 ± 5 Ohm (at 100 MHz)  |
| <b>Velocity of propagation</b>  | 66%   |
| <b>Propagation delay</b>        | Nominal 518 ns/100m   |
| <b>Coupling attenuation</b>     | 85 dB Min. (30-100 Mhz)   |

## Application

Category 5e data transmission cable for local area networks (LAN):

- 10Base-T (IEEE 802.3)
- 4/16 Mbps TOKEN RING (IEEE 802.5)
- 100BASE-VG-AnyLAN
- 100Mbps TP-PMD (ANSI X3P.5)
- 100BASE-T (IEEE 802.3)
- 55/155 Mbps ATM
- 1000BASE-T (Gigabit Ethernet)

\* CPR:

Cable suitable for installation under the requirements of CPR (Construction Product Regulation (EU) No. 305/2011) according to the classification (Euroclass) specified in this document.

## Standards / Properties

Ref. standard for drawing

TIA-568 C2

EN 50173; EN 50288-3-1

ISO/IEC 11801; IEC 61156-5

CPR Classification (Euroclass)

Fca (According to UNE-EN 50575)



electromagnetic  
protection



water resistant



UV resistant



## Article Table

| Code | Cable                            | Supply          |
|------|----------------------------------|-----------------|
| 1    | U/UTP Cat.5e 4x2xAWG24 Armado PE | Bobinas 1000mts |

## Colour code

| PAIR N° | Conductor A | Conductor B  |
|---------|-------------|--------------|
| 1       | Blue        | White/Blue   |
| 2       | Orange      | White/Orange |
| 3       | Green       | White/Green  |
| 4       | Brown       | White/Brown  |

## Electrical Data

| Frec.(MHz) | ** Attenuation | *NEXT | *PSNEXT | **ACRF | **PS-ACRF | **ACR | **PS-ACR | *RL  |
|------------|----------------|-------|---------|--------|-----------|-------|----------|------|
| 1          | 2              | 65.3  | 62.3    | 63.8   | 60.8      | 63.3  | 60.3     | 20   |
| 4          | 4.1            | 56.3  | 53.3    | 51.8   | 58.8      | 52.2  | 49.2     | 23   |
| 8          | 5.8            | 51.8  | 48.8    | 45.7   | 42.7      | 46    | 43       | 24.5 |
| 10         | 6.5            | 50.3  | 47.3    | 43.8   | 40.8      | 43.8  | 40.8     | 25   |
| 16         | 8.2            | 47.2  | 44.2    | 39.7   | 36.7      | 39    | 36       | 25   |
| 25         | 10.4           | 44.3  | 41.3    | 35.8   | 32.8      | 33.9  | 30.9     | 24.3 |
| 31.25      | 11.7           | 42.9  | 39.9    | 33.9   | 30.9      | 31.2  | 28.2     | 23.6 |
| 32.5       | 17             | 38.4  | 35.4    | 27.9   | 24.9      | 21.4  | 18.4     | 21.5 |
| 62.5       | 17             | 38.4  | 35.4    | 27.9   | 24.9      | 21.4  | 18.4     | 21.5 |
| 100        | 22             | 35.3  | 32.3    | 23.8   | 20.8      | 13.3  | 10.3     | 20.1 |
| 125        | 24.9           | 33.8  | 30.8    | 21.9   | 18.9      | 9     | 6        | 19.4 |
| 155        | 28.1           | 32.4  | 29.4    | 20     | 17        | 4.4   | 1.4      | 18.8 |
| 200        | 32.4           | 30.8  | 27.8    | 17.8   | 14.8      | -     | -        | 18   |

Units: \* = dB / \*\* = dB/100m

Frec.(MHz)

Frequency