

EA730V0-Ed1

## MULTIDROP SELF-SUPPORTED CABLE FOR EXTERNAL DISTRIBUTION NETWORK, TELEFONICA STANDARD



Telecommunications cable



UV resistant



Overhead line cable



ROHS compliant

### STANDARD

Constructive: Telefónica GT.ER.f5.227

Complementary: EIA/TIA 568-B CAT 3

### DESCRIPTION Y APPLICATION

Multidrop cable for external distribution networks of 6 pairs, diameter of conductors of 0,5mm and PE insulation. Self-supported black PVC sheath, with aramid yarns as reinforcement. This cable is to be used to connect the distribution and terminal points, in the subscribers networks when more than one line is needed. This is a self-supported, flame retardant, and outside conditions resistant cable and it can be used to be installed in ducts, stapling on the façade, as well as in the interior and exterior of buildings.

### CONSTRUCTION

- **Conductors:** Annealed copper, diameter 0.51 mm.
- **Insulation:** Solid high density polyethylene.
- **Formation:** Pairs.
- **Reinforcement:** Aramid yarns.
- **Sheath:** UV resistant black PVC.
- **Sheath marks** : The sheath shall be marked, at a regular intervals, with the following information
  - Name of manufacturer/ Year/ Length marks
  - Other type of marks according to the costumer



ELECTRICAL CHARACTERISTIC (20°C)	0,51
Maximum Conductor Resistance ( $\Omega$ /km)	91
Resistance unbalance (%) $100 \times (R_{max} - R_{min}) / (R_{max} + R_{min})$	
• Average	1,5 %
• Maximum	5,0 %
Minimum insulation resistance (M $\Omega$ xkm, 15°C, 500 V)	8000
Maximum mutual Capacitance (nF/km, 800 Hz)	66
Maximum capacitase unbalance (pF/100m, 800 Hz)	
Pair-pair	35
Dielectric Stregth (Vcc, 1 s)	
conductor – conductor	3600

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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<b>TRANSMISSION CHARACTERISTICS (20°C)</b>		0,51
<i>Characteristic impedance from 1 to 16 MHz (<math>\Omega</math>)</i>		100±15
<i>Return losses (SRL) - dB</i>		
• from 1 to 10 MHz		12
• from 10 to 16 MHz (f in MHz)		12-10 log(f/10)
<i>Insertion Losses (dB/km)</i>		
0,772 MHz		2.28
1 MHz		2.60
4 MHz		5.20
8 MHz		7.35
10 MHz		8.22
16 MHz		10.40
<i>PSNEXT, dB/100 m</i>		
0,772 MHz		42.7
1 MHz		41.1
4 MHz		32.0
8 MHz		27.5
10 MHz		26.1
16 MHz		23.0
<i>PSELFEXT, dB/100 m</i>		
0,772 MHz		49.3
1 MHz		47.1
4 MHz		35.0
8 MHz		29.0
10 MHz		27.1
16 MHz		23.0

### MECHANICAL CHARACTERISTICS

Temperature Range: from -25° C to +75° C

Minimum bending radius: 10 x R<sub>cable</sub>

### DIMENSIONS AND WEIGHTS

Diameter : 0.51 mm					
Code	Nº Pairs	Diam. cable (mm)	Weigth approx. (kg/km)	Length (m)	Drum
EA730V051000602N	6	6.3	52	250	REEL

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