

## PVC SHEATHED AND SCREENED INDOOR TELEPHONE CABLES – ICT COMPLIANT

Telecommunications  
cableFlame  
retardant

ROHS compliant

## STANDARDS

Cables ICT. RD 401/2003

UNE 50265-1-2

## DESCRIPTION AND APPLICATION

Indoor telephone cables from 11 to 202 pairs, copper conductors of 0.51 mm diameter, solid PE insulation. The pairs are twisted into units of 25 pairs and these are stranded to form the core that is protected with aluminium/polyester tape and a PVC grey sheath. These cables are used as distribution cables within buildings and meet the RD 401/2003 for ICT.

## CONSTRUCTION

- **Conductors:** Annealed copper, diameter of 0.51 mm.
- **Insulation** Solid HDPE.
- **Cabling elements:** Pairs.
- **Lay-up.** Up to 26 pairs in layers. Cables with more than 26 pairs in units of 25 pairs.
- **Core wrapping.** Longitudinal dielectric tape applied with overlap.
- **Screen.** Aluminium/polyester tape with a continuity wire.
- **Sheath:** PVC grey colour.
- **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 (20°C)		0,51
Maximum conductor resistance ( $\Omega/\text{km}$ )		91
Resistance unbalance (%) $100 \times (R_{\text{max}} - R_{\text{min}}) / (R_{\text{min}} + R_{\text{max}})$		Maximum 2,5 %
Minimum insulation resistance ( $M\Omega \times \text{km}$ , 15°C, 500 V)		5000
Mutual capacitance (nF/km, 800 Hz)		Max. average.: 55 / Maximum 58
Capacitance unbalance (pF/km, 800 Hz)		
Pair-pair		< 45rms (<12 pairs) / < 145 (>12 pairs)
Pair-earth		Average: < 574 (>12 pairs) / maximum: < 2625
Dielectric strength (Vdc, 3 s)		
conductor – conductor		1000
conductor - screen		2500

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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## PVC SHEATHED AND SCREENED INDOOR TELEPHONE CABLES – ICT COMPLIANT

**TRANSMISSION CHARACTERISTICS (20°C)**

0,51

*Nominal attenuation (dB/km)*

0,8 KHz

1.30

3 KHz

2.52

150 KHz

8.30

1000 KHz

21.4

**OTHER CHARACTERISTICS**

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

Minimum bending radius: 12 x R<sub>cable</sub>

Flame retardant according to UNE-EN-50265-2

**DIMENSIONS AND WEIGHTS**

Diameter : 0.51 mm					
Code	# Pairs	Cable diam. (mm)	Approx. Weight. (kg/km)	Length (m)	Drum
EA2504A51001102N	11	9.7	153	2000	A0
EA2504A51002602N	26	10.8	177	2000	A0
EA2504A51005102N	51	13.8	303	2000	A2
EA2504A51007602N	76	17.4	430	2000	A4
EA2504A51010102N	101	19.2	568	2000	A4
EA2504A51020202N	202	25.3	1070	2000	A6

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