

TWISTED PAIRS CABLES WITH SHIELDED FLAME RETARDANT LSZH SHEATH



Telecommunications cable



Flame retardant



Low smoke emission



Zero halogen



UV resistant



ROHS compliant

STANDARDS

Construction: Telefónica GT.ER.f5.001

Complementary: UNE 50265-1-2 EN 50267-2-2 EN 50268-2

DESCRIPTION AND APPLICATION

Telephone cables from 11 to 101 pairs, copper conductors of 0.40 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 a flame-retardant halogen-free (LSZH) ATI sheath. Used as a distribution cable for indoor.

CONSTRUCTION

- **Conductors:** Annealed copper, diameter of 0.40 mm.
- **Insulation:** Solid HDPE.
- **Cabling elements:** Pairs.
- **Lay-up:** Up to 25 pairs in layers. Cables above in units of 25 pairs.
- **Core wrapping:** Longitudinal dielectric tape applied with overlap.
- **Screen:** Longitudinal copolymer coated aluminium tape longitudinally applied with overlap and bonded to the outer sheath.
- **Sheath:** Fire retardant thermoplastic, halogen free, UV resistant material, black colour.
- **Sheath marking:** The outer sheath shall be marked at regular intervals with the following information:
 - CABLESCOM / year / Length markings
 - Other type of markings is also possible according to the customer



ELECTRICAL CHARACTERISTICS (20°C)	
Maximum conductor resistance (Ω/km)	0,41
Resistance unbalance (%) $100 \times (R_{\text{max}} - R_{\text{min}}) / (R_{\text{min}} + R_{\text{max}})$	144,2
Minimum insulation resistance ($M\Omega \times \text{km}$, 20°C, 500 V)	Average: 1,5 % / Maximum 5,0 %
Mutual capacitance (nF/km, 1000 Hz)	20000
Capacitance unbalance (pF/km, 1000 Hz)	Average: 52±3 / Maximum 58
Pair- pair	< 45rms (<12 pairs) / < 145 (>12 pairs)
Pair- earth	Average: < 574 (>12 pairs) / maximum: < 2625
Dielectric strength (Vdc, 3 s)	
conductor – conductor	2500
conductor - screen	5000

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)	0,40
<i>Nominal attenuation (dB/km)</i>	
0,8 KHz	1.64
3 KHz	3.18
150 KHz	11.4
1000 KHz	27.1
<i>PSELFEXT (dB/305 m, 1000 KHz, 50 pairs)</i>	
Minimum average	44.5
Minimum value	40.4
<i>PSNEXT (dB/305 m, 1000 KHz, 50 pairs)</i>	
Minimum average	45.2
Minimum value	40.1

MECHANICAL CHARACTERISTICS

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

Minimum bending radius: 12 x R_{cable}

DIMENSIONS AND WEIGHTS

Diameter : 0.41 mm					
Code	# Pairs	Cable Diam. (mm)	Approx. Weight (kg/km)	Length (m)	Drum
EA2404S41001102N	11	8.4	93	1000	08
EA2404S41002602N	26	10.5	156	1000	08
EA2404S41005102N	51	13.0	247	1000	A0
EA2404S41010102N	101	18.0	478	1000	A2

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