

OUTDOOR SCREENED TELEPHONE CABLES – ICT COMPLIANT

Telecommunications
cable

UV Resistant



ROHS Compliant

STANDARDS

ICT Cables. RD 401/2003

DESCRIPTION AND APPLICATION

Outdoor telephone cables from 11 to 101 pairs, copper conductor of 0,51 mm diameter and solid PE insulation. Pairs are twisted into units of 25 pairs and these are stranded to form the core that is protected with a moisture barrier sheath. RD 401/2003 compliant about ICT cables. These cables are used as outdoor distribution cables and meet the RD 401/2003 for ICT compliant.

CONSTRUCTION

- **Conductors:** Annealed copper, diameter 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.** Longitudinal aluminum/polyester tape applied with overlap and bonded to the outer sheath.
- **Sheath:** PE black color, UV resistant.
- **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 (Ω/km)		91
Resistance unbalance (%) $100 \times (R_{max} - R_{min}) / (R_{min} + R_{max})$		< 2,5 %
Minimum insulation resistance ($M\Omega \times km$, 15°C, 500 V)		5000
Mutual capacitance (nF/km, 800 Hz)		Average < 55 / Maximum < 58
Capacitance unbalance (pF/km, 800 Hz)		
Pair-pair		< 45rms (<12 pair) / < 145 (>12 pair)
Pair-earth		average: < 574 (>12 pair) / maximum: < 2625
Dielectric strength (Vcc, 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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TRANSMISSION CHARACTERISTICS (20°C)		0,51
<i>Nominal attenuation (dB/km)</i>		
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_{cable}

DIMENSIONS AND WEIGHTS

Diameter : 0.51 mm					
Code	# Pairs	Cable diam. (mm)	Approx. Weight. (kg/km)	Length (m)	Drum
EA2503051001102N	11	10.0	120	2000	A0
EA2503051002602N	26	12.5	195	2000	A2
EA2503051005102N	51	15.5	325	2000	A4
EA2503051007602N	76	18.5	470	2000	A4
EA2503051010102N	101	21.5	600	2000	A6

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