

Description

Triple shielded coaxial cable for Broadband Distribution Networks 75 Ohm
Triple shielded cable (Screening Class A++)



Data Sheet

TS602J



| | | | | | | |
|---|------|-------|-----------------|--------|-----------------|-------|
| Ø | 1,00 | 4,30 | 4,47 | 4,87 | 4,99 | 6,50 |
| | (Cu) | (PEG) | (Al/Pet/Al/Sur) | (CuSn) | (Al/Pet J-foil) | (PVC) |

Standards

EN 50117-2-4

Construction data

| | | | |
|---|-----------------|------------------|-------|
| Inner conductor of plain copper | (Cu) | Ø 1,00 ± 0,02 | mm |
| Dielectric of physical foam polyethylene | (PEG) | Ø 4,30 ± 0,10 | mm |
| Aluminum/Polyester/Aluminum/Surlyne tape longitudinally overlapped and bonded to the dielectric | (Al/Pet/Al/Sur) | | |
| Braid of tinned copper wires | (CuSn) | | |
| Braid optical coverage (IEC 96-1) | | 48 | % |
| Outer Aluminum/Polyester j-folded and longitudinally overlapped | (Al/Pet J-foil) | 19,5+3,5 x 30/19 | mm/µm |
| Diameter over Braid | | Ø 4,99 | mm |
| Outer sheath of Polyvinylchloride - white (PVC) - lead-free | (PVC) | Ø 6,50 ± 0,20 | mm |

Printed each meter by blue ink-jet :

**CAVEL TS 602 J MADE IN ITALY 75 Ohm EN50117-2-4 Class A++ CEI-UNEL 36762 C-4 (U0 = 400V)
ULTRA HD / 4K ss/aa m**

(ss=week, aa=year) (m=meter marking)

Physical data

| | | |
|--|-----------|-------|
| Weight of copper conductors | 12,80 | kg/km |
| Total weight of cable | 40,94 | kg/km |
| Minimum bending radius (single/repetead bending) | 30/60 | mm |
| Maximum cable pulling strength | 120 | N |
| Minimum installation temperature | -5 | °C |
| Operating temperature | -40 / +80 | °C |

Electrical data

| | | | |
|---------------------------------------|---------|--------|--------|
| Characteristic impedance | 200 MHz | 75 ± 3 | Ohm |
| Capacitance (@1kHz) | | 52 ± 2 | pF/m |
| Velocity Ratio | | 85 % | |
| Inner conductor resistance | | 22,50 | Ohm/km |
| Outer conductor resistance | | 13,50 | Ohm/km |
| Loop resistance | | 36 | Ohm/km |
| Sheat Insulation voltage (spark test) | | 3 | kV |
| Maximum current (Ieff) | | 6 | A |
| Structural return loss (SRL) | | | |
| 5 - 470 MHz | >30 dB | | |
| 470 - 1000 MHz | >28 dB | | |
| 1000 - 2000 MHz | >26 dB | | |
| 2000 - 3000 MHz | >22 dB | | |

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Date

08/05/2013

Responsible

PierPaolo Piccinini

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Screening Attenuation (SA)

SA-Class A++

| | |
|-----------------|---------|
| 30 - 1000 MHz | >105 dB |
| 1000 - 2000 MHz | >100 dB |
| 2000 - 3000 MHz | >90 dB |

Transfer Impedance (Zt)

5 - 30 MHz 0,15 mOhm/m

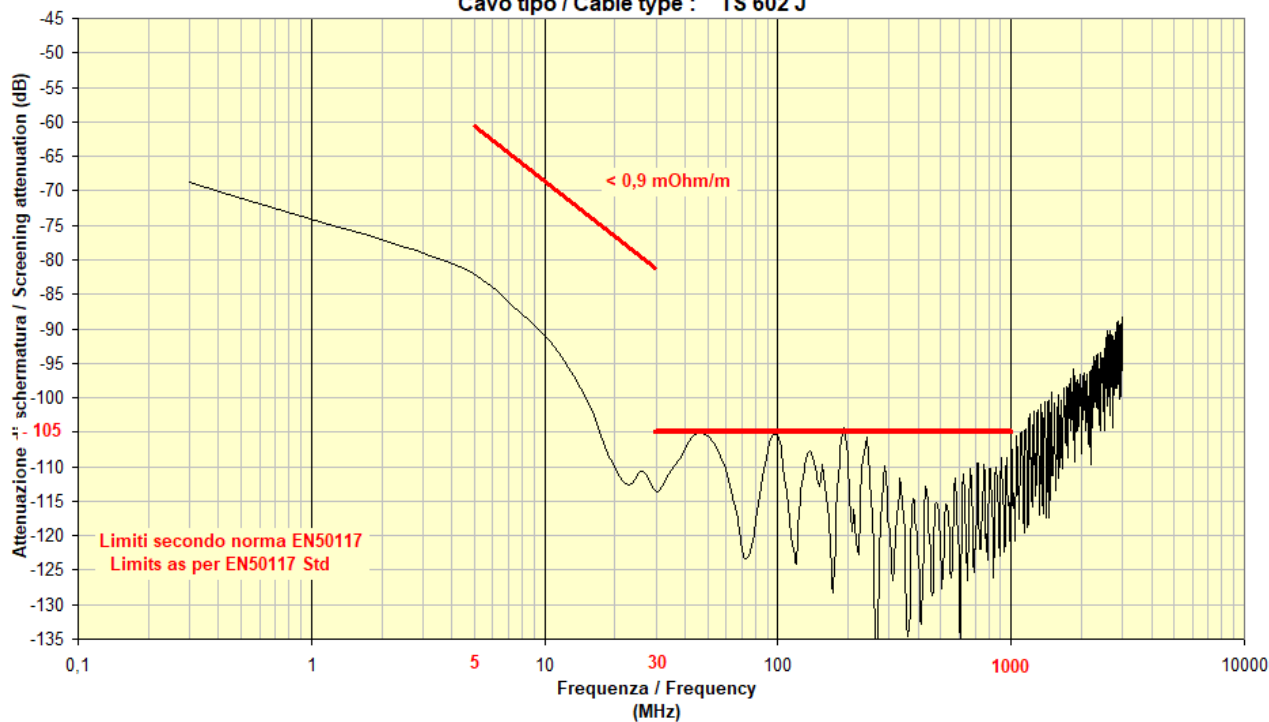
Attenuation (at 20°C)

| Frequency [MHz] | Attenuation [dB/100m] | Frequency [MHz] | Attenuation [dB/100m] |
|-----------------|-----------------------|-----------------|-----------------------|
| 5 | 1,80 | 862 | 19,20 |
| 10 | 2,50 | 1000 | 20,70 |
| 30 | 3,60 | 1750 | 27,90 |
| 50 | 4,60 | 2150 | 31,10 |
| 200 | 9,00 | 2400 | 32,90 |
| 300 | 10,00 | 3000 | 37,30 |
| 470 | 14,00 | | |

Attenuazione di schermatura / Screening Attenuation

Cavo classe A++ / A++ Class cable

Cavo tipo / Cable type : TS 602 J



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