

**Description**

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



Data Sheet

**TS27/115J**



|   |      |       |                 |        |                 |       |
|---|------|-------|-----------------|--------|-----------------|-------|
| Ø | 2,70 | 11,50 | 11,72           | 12,32  | 12,44           | 15,30 |
|   | (Cu) | (PEG) | (Al/Pet/Al/Sur) | (CuSn) | (Al/Pet J-foil) | (PE)  |

**Class CPR acc. to UE 305/2011 (DoP)**

Fca

The cable can be used in the field of application of the Construction Product Regulation (DoP) UE nr. 305/2011 for the class of performance specified on the related product label.

**Standards**

EN 50117-2-3

**Reaction to Fire**

EN50575

**Application**

DOCSIS 3.1 (Data Over Coax System)

**Construction data**

|   |                 |                |       |
|---|-----------------|----------------|-------|
| Inner conductor of plain copper   | (Cu)            | Ø 2,70 ± 0,10  | mm    |
| Dielectric of physical foam polyethylene  | (PEG)           | Ø 11,50 ± 0,15 | mm    |
| Aluminium/Polyester/Aluminium/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)   |                 | 64             | %     |
| Tracer Identifier   | Year + Flag     |                |       |
| Aluminium/Polyester j-fold and longitudinally overlapped  | (Al/Pet J-foil) | 50+4 x 30/19   | mm/µm |
| Diameter over Braid   |                 | Ø 12,44        | mm    |
| Outer sheath of Polyethylene - black with two green bands - with carbonblack                      | (PE)            | Ø 15,30 ± 0,20 | mm    |

Printed each meter by yellow ink-jet :

**CAVEL TS 2.7/11.5 J MADE IN ITALY 75 Ohm Euroclass Fca EN50117-2-3 Class A++ CEI-UNEL 36762 C-4 (U0 = 400V) ULTRA HD / 4K gggan m**

(ggg=day)(aa=year)(n=batch) (m=meter marking)

**Physical data**

|  |           |       |
|--|-----------|-------|
| Weight of copper conductors                      | 83,15     | kg/km |
| Total weight of cable                            | 188,30    | kg/km |
| Minimum bending radius (single/repeated bending) | 200       | mm    |
| Maximum cable pulling strength                   | 800       | N     |
| Minimum installation temperature                 | -5        | °C    |
| Operating temperature                            | -40 / +80 | °C    |

**Electrical data**

|                          |         |        |      |
|--------------------------|---------|--------|------|
| Characteristic impedance | 200 MHz | 75 ± 2 | Ohm  |
| Capacitance (@1kHz)      |         | 52 ± 2 | pF/m |

**ITALIANA CONDUTTORI s.r.l.**

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Date

12/05/2017

Responsible

PierPaolo Piccinini

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|                                       |        |      |        |
|---------------------------------------|--------|------|--------|
| Velocity Ratio                        |        | 85 % |        |
| Inner conductor resistance            |        | 3,40 | Ohm/km |
| Outer conductor resistance            |        | 3,50 | Ohm/km |
| Loop resistance                       |        | 6,90 | Ohm/km |
| Sheat Insulation voltage (spark test) |        | 8    | kV     |
| Maximum current (Ieff)                |        | 25   | A      |
| Structural return loss (SRL)          |        |      |        |
| 5 - 470 MHz                           | >25 dB |      |        |
| 470 - 1000 MHz                        | >24 dB |      |        |
| 1000 - 2000 MHz                       | >23 dB |      |        |
| 2000 - 3000 MHz                       | >22 dB |      |        |

|                            |              |                                |              |
|----------------------------|--------------|--------------------------------|--------------|
| Screening Attenuation (SA) | SA-Class A++ | Shield Transfer Impedance (Zt) | Zt-Class A++ |
| 30 - 1000 MHz              | >110 dB      | 5 - 30 MHz                     | < 1 mOhm/m   |
| 1000 - 2000 MHz            | >105 dB      |                                |              |
| 2000 - 3000 MHz            | >90 dB       |                                |              |

**Attenuation (at 20°C )**

| Frequency [MHz] | Attenuation [dB/100m] | Frequency [MHz] | Attenuation [dB/100m] |
|-----------------|-----------------------|-----------------|-----------------------|
| 5               | 0,78                  | 862             | 7,71                  |
| 10              | 1,00                  | 1000            | 8,38                  |
| 30              | 1,34                  | 1350            | 9,92                  |
| 50              | 1,73                  | 1750            | 11,52                 |
| 200             | 3,53                  | 2150            | 12,80                 |
| 300             | 4,34                  | 2400            | 13,60                 |
| 470             | 5,53                  | 3000            | 15,40                 |
| 800             | 7,40                  |                 |                       |

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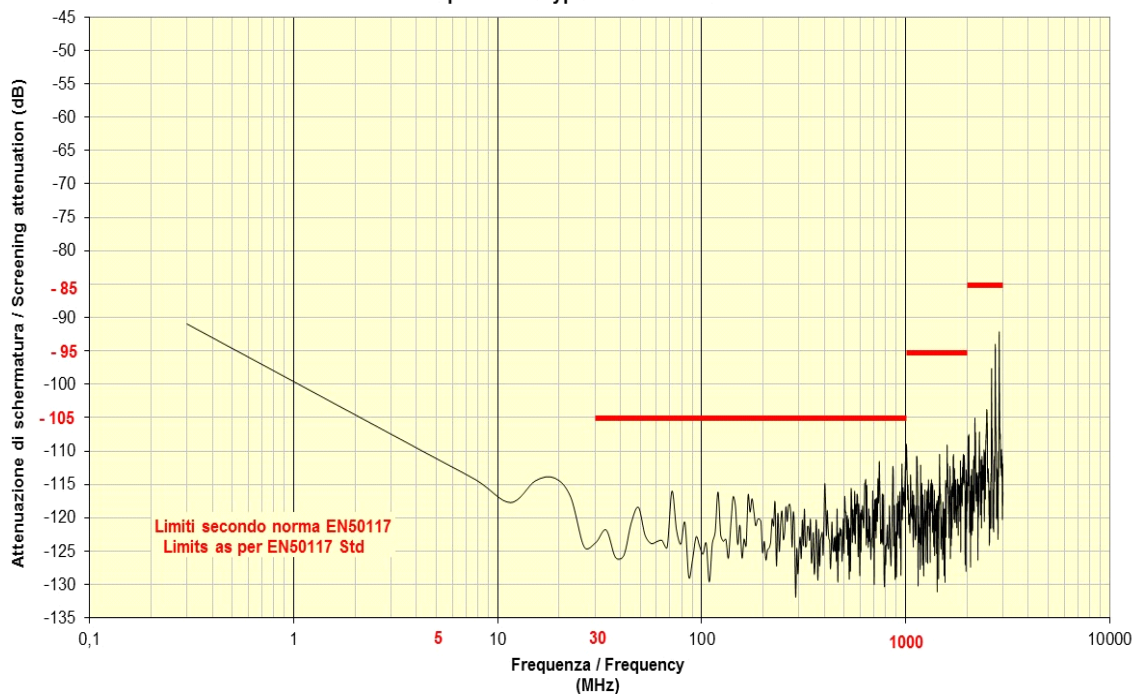
Data Sheet

TS27/115J

Attenuazione di schermatura / Screening Attenuation

Cavo classe A++ / A++ Class cable

Cavo tipo / Cable type : TS 27/115 J



Connectors

- 3,5/12M-44** 3,5/12" connector, male, for UNDERGROUND (Hardline) installation, nitin-plated brass - 75,0 mm x 25,0 mm
- 5/8MU-44** 5/8" connector, male, for UNDERGROUND (Hardline) installation, nitin-plated brass - 75,0 mm x 25,0 mm
- FM-TL444** Series F, male, for UNDERGROUND (Hardline) installation, nitin-plated brass - 76,0 mm x 31,0 mm
- IEC14M-44** Series IEC (toolless), male, for UNDERGROUND (Hardline) installation, nitin-plated brass - 75,0 mm x 25,0 mm
- SR21-44** Adapter, for 11/50FC - 27/115, for UNDERGROUND (Hardline) installation

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