

**Description** \*\*\* **Provisional Data Sheet** \*\*\*  
 Triple shielded coaxial cable for Broadband Distribution Networks  
 75 Ohm  
 Triple shielded cable (Screening Class A++)



**Data Sheet**  
**TS11JZH**



|   |      |       |                 |        |                 |        |
|---|------|-------|-----------------|--------|-----------------|--------|
| Ø | 1,63 | 7,20  | 7,37            | 7,85   | 7,97            | 10,30  |
|   | (Cu) | (PEG) | (Al/Pet/Al/Sur) | (CuSn) | (AL/Pet J-foil) | (LSZH) |

**Construction data**

|  |                 |                |       |
|--|-----------------|----------------|-------|
| Inner conductor of plain copper  | (Cu)            | Ø 1,63 ± 0,03  | mm    |
| Dielectric of physical foam polyethylene   | (PEG)           | Ø 7,20 ± 0,10  | 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)  |                 | 63             | %     |
| Tracer Identifier  | Year + Flag     |                |       |
| Aluminium/Polyester j-fold and longitudinally overlapped   | (Al/Pet J-foil) | 32+3 x 30/19   | mm/µm |
| Diameter under Sheath  |                 | 7,97           | mm    |
| Outer sheath of Thermoplastic material - grey (RAL 7001) - halogen-free, low smoke, flame retardant and UV-resistant | (LSZH)          | Ø 10,30 ± 0,20 | mm    |
| Printed each meter by blue ink-jet :   |                 |                |       |

**CAVEL TS 11 J ZH MADE IN ITALY 75 Ohm EN50117-2-3 Class A++ CEI-UNEL 36762 C-4 (U0 =400V) \* LTE PROTECTION \* ss/aa m**

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

**Physical data**

|  |       |       |
|--|-------|-------|
| Weight of copper conductors                      | 34,57 | kg/km |
| Total weight of cable                            | 86,70 | kg/km |
| Minimum bending radius (single/repeated bending) | 100   | mm    |
| Maximum cable pulling strength                   | 300   | N     |

**Electrical data**

|                                       |         |        |        |
|---------------------------------------|---------|--------|--------|
| Characteristic impedance              | 200 MHz | 75 ± 2 | Ohm    |
| Capacitance (@1kHz)                   |         | 52 ± 2 | pF/m   |
| Velocity Ratio                        |         | 85 %   |        |
| Inner conductor resistance            |         | 8,50   | Ohm/km |
| Outer conductor resistance            |         | 7,50   | Ohm/km |
| Loop resistance                       |         | 16     | Ohm/km |
| Sheat Insulation voltage (spark test) |         | 8      | kV     |
| Maximum current (Ieff)                |         | 16     | A      |

|                              |        |
|------------------------------|--------|
| Structural return loss (SRL) |        |
| 5 - 470 MHz                  | >30 dB |
| 470 - 1000 MHz               | >28 dB |
| 1000 - 2000 MHz              | >23 dB |
| 2000 - 3000 MHz              | >20 dB |

|                            |              |                                |             |
|----------------------------|--------------|--------------------------------|-------------|
| Screening Attenuation (SA) | SA-Class A++ | Shield Transfer Impedance (Zt) | Zt-Class A+ |
| 30 - 1000 MHz              | >110 dB      | 5 - 30 MHz                     | < 2 mOhm/m  |

**ITALIANA CONDUTTORI s.r.l.**  
 Viale Zanotti 90 I - 27027 Gropello Cairoli  
 Tel +39-382.815150 Fax +39-0382.814212

Date  
**13/09/2016**

Responsible  
**Alberto Scardovi**

## Description

\*\*\* Provisional Data Sheet \*\*\*

Data Sheet

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



TS11JZH

1000 - 2000 MHz >110 dB  
2000 - 3000 MHz > 90 dB

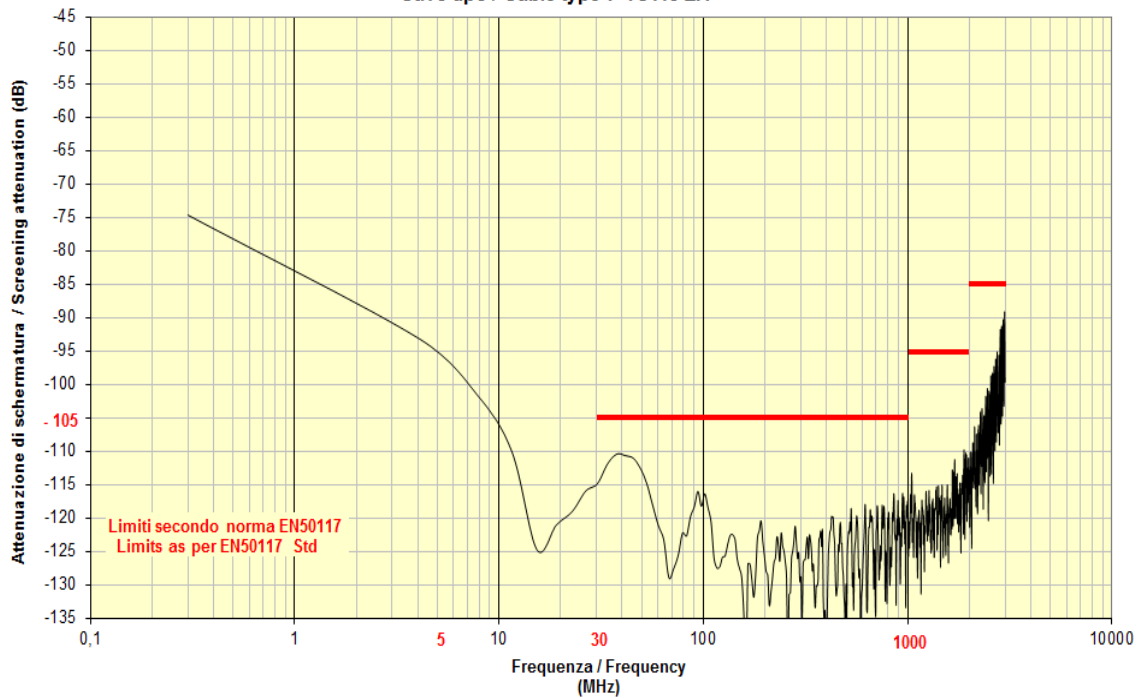
## Attenuation (at 20°C )

| Frequency [MHz] | Attenuation [dB/100m] | Frequency [MHz] | Attenuation [dB/100m] |
|-----------------|-----------------------|-----------------|-----------------------|
| 5               | 1,10                  | 862             | 11,90                 |
| 10              | 1,50                  | 1000            | 12,80                 |
| 30              | 2,20                  | 1750            | 17,90                 |
| 50              | 2,80                  | 2150            | 19,80                 |
| 200             | 5,60                  | 2400            | 21,00                 |
| 300             | 6,90                  | 3000            | 24,50                 |
| 470             | 8,80                  |                 |                       |

## Attenuazione di schermatura / Screening Attenuation

Cavo classe A++ / A++ Class cable

Cavo tipo / Cable type : TS11JZH



ITALIANA CONDUTTORI s.r.l.

Viale Zanotti 90 I - 27027 Gropello Cairoli  
Tel +39-382.815150 Fax +39-0382.814212

Date

13/09/2016

Responsible

Alberto Scardovi