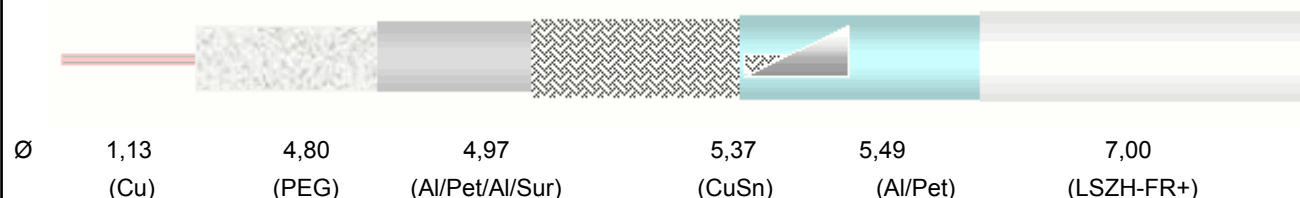


**Description**

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

**Data Sheet****TS713C****Class CPR acc. to UE 305/2011 (DoP)****Cca s1a,d1,a1**

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 50117-2-4

**Reaction to Fire**

EN50575

**Application**

DOCSIS 3.1 (Data Over Coax System)

CATV

4K-UHD

Indoor (+ Outdoor)

**Construction data**

|                                                                                                   |                 |               |       |
|---------------------------------------------------------------------------------------------------|-----------------|---------------|-------|
| Inner conductor of plain copper                                                                   | (Cu)            | Ø 1,13 ± 0,02 | mm    |
| Dielectric of physical foam polyethylene                                                          | (PEG)           | Ø 4,80 ± 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)                                                                 |                 | 71            | %     |
| Outer Aluminium/Polyester tape longitudinally overlapped                                          | (Al/Pet)        | 23 x 30/19    | mm/µm |
| Diameter over Braid                                                                               |                 | Ø 5,49        | mm    |
| Outer sheath of Thermoplastic material - white - halogen-free, low smoke, flame retardant         | (LSZH-FR+)      | Ø 7,00 ± 0,15 | mm    |
| Printed each meter by blue ink-jet :                                                              |                 |               |       |

**CAVEL TS 713 C MADE IN ITALY 75 Ohm Euroclass Cca s1a,d1,a1 EN50117-2-4 Class A++ CEI-UNEL  
36762 C-4 (U0 = 400V) ULTRA HD / 4K gggaan m**

(gggaan=batch number m=meter marking)

**Physical data**

|                                                      |           |       |
|------------------------------------------------------|-----------|-------|
| Weight of copper conductors                          | 19,40     | kg/km |
| Total weight of cable                                | 50,06     | kg/km |
| Minimum bending radius (single/repeated bending)     | 35/70     | mm    |
| Maximum cable pulling strength                       | 150       | N     |
| Stripping force between braid and sheath over 200 mm | 150       | N     |
| Minimum installation temperature                     | -5        | °C    |
| Operating temperature                                | -40 / +80 | °C    |

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

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**Date****06/06/2018****Responsible****Alberto Scardovi**

**Description**

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

**Data Sheet****TS713C****Electrical data**

|                                       |         |        |        |
|---------------------------------------|---------|--------|--------|
| Characteristic impedance              | 200 MHz | 75 ± 3 | Ohm    |
| Capacitance (@1kHz)                   |         | 52 ± 2 | pF/m   |
| Velocity Ratio                        |         | 85 %   |        |
| Inner conductor resistance            |         | 18     | Ohm/km |
| Outer conductor resistance            |         | 10     | Ohm/km |
| Loop resistance                       |         | 28     | Ohm/km |
| Sheat Insulation voltage (spark test) |         | 3      | kV     |
| Maximum current (I <sub>eff</sub> )   |         | 8      | 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 |

Screening Attenuation (SA) SA-Class A++

|                 |          |
|-----------------|----------|
| 30 - 1000 MHz   | > 108 dB |
| 1000 - 2000 MHz | > 95 dB  |
| 2000 - 3000 MHz | > 85 dB  |

Shield Transfer Impedance (Zt)

Zt-Class A++

5 - 30 MHz &lt; 0,9 mOhm/m

## Attenuation (at 20°C )

| Frequency<br>[MHz] | Attenuation<br>[dB/100m] | Frequency<br>[MHz] | Attenuation<br>[dB/100m] |
|--------------------|--------------------------|--------------------|--------------------------|
| 5                  | 1,40                     | 862                | 16,00                    |
| 10                 | 1,90                     | 1000               | 17,30                    |
| 30                 | 3,00                     | 1750               | 23,40                    |
| 50                 | 3,80                     | 2150               | 26,10                    |
| 200                | 7,50                     | 2400               | 27,80                    |
| 300                | 9,30                     | 3000               | 31,50                    |
| 470                | 11,70                    |                    |                          |

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# Description

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75 Ohm  
Class A++



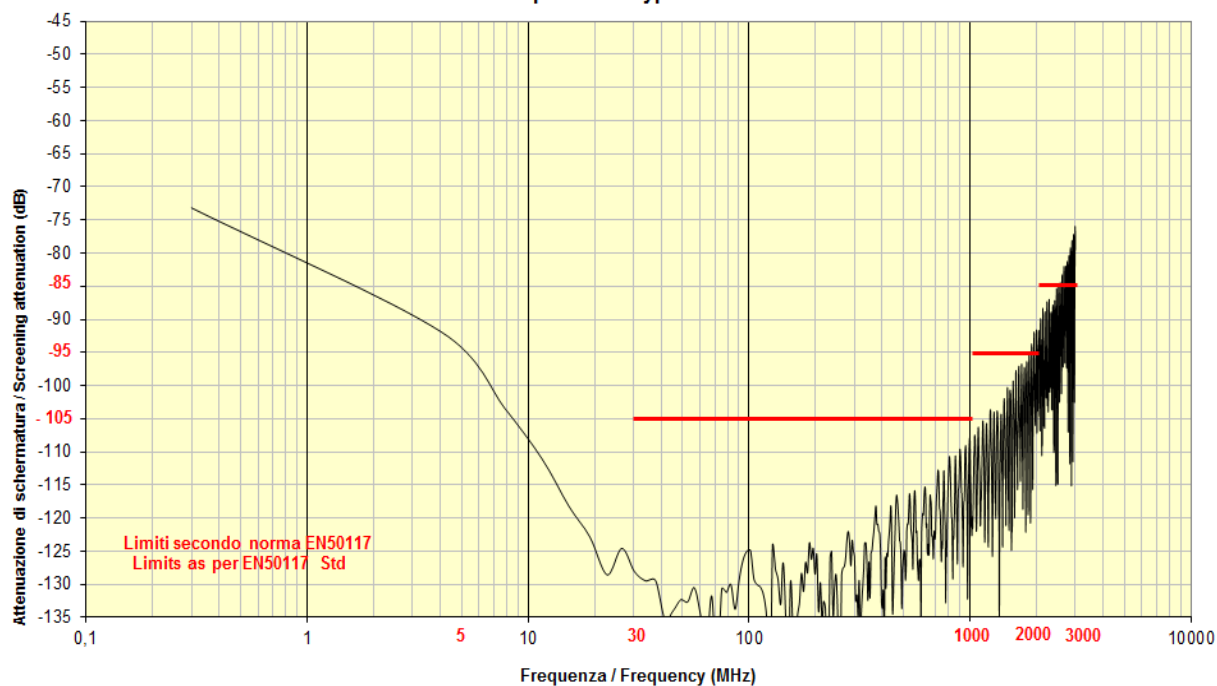
Data Sheet

TS713C

## Attenuazione di schermatura / Screening Attenuation

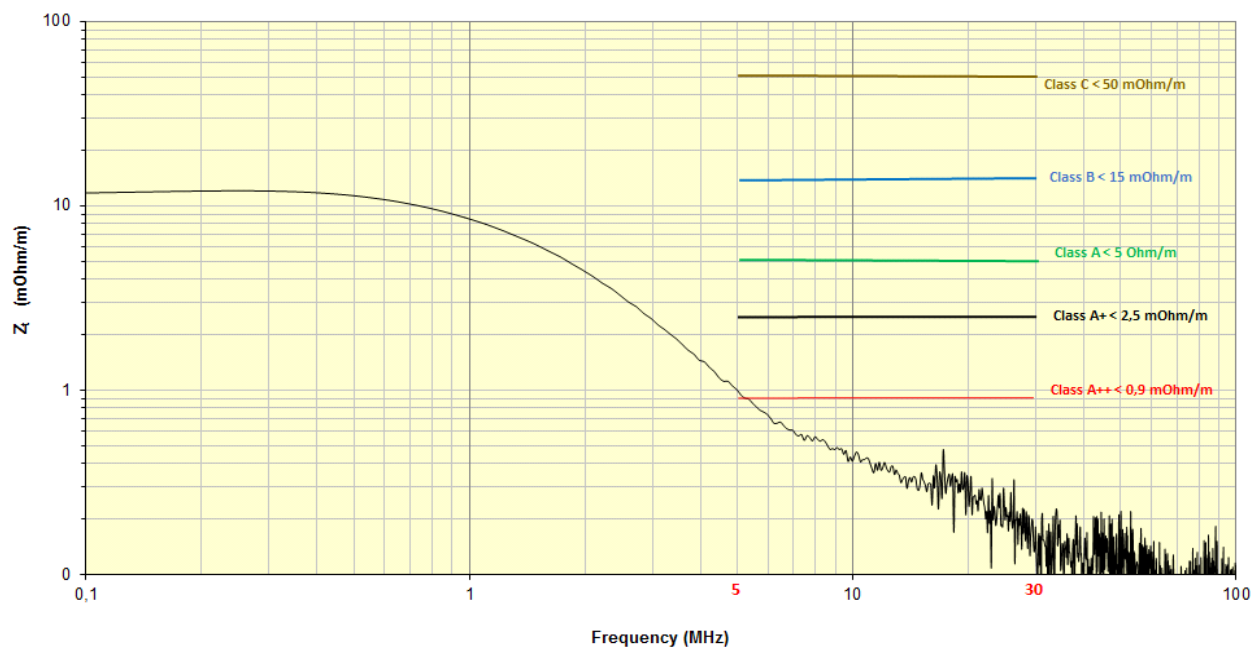
Cavo classe A++ / A++ Class cable

Cavo tipo / Cable type: TS713C



## Transfer Impedance

Cable type: TS713C Date: June 6, 2018



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Date

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