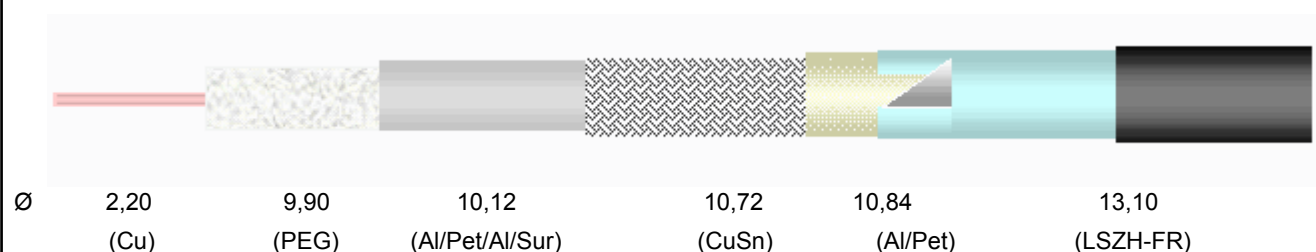


**Description**

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

**Data Sheet****TS22C****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 50117-2-3

**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 2,20 ± 0,10  | mm    |
| Dielectric of physical foam polyethylene                                                          | (PEG)           | Ø 9,90 ± 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             | %     |
| External Aluminium/Polyester tape                                                                 | (Al/Pet)        | 44 x 30/19     | mm/µm |
| Diameter over Braid                                                                               |                 | Ø 10,84        | mm    |
| Outer sheath of Thermoplastic material - black - with carbonblack                                 | (LSZH-FR)       | Ø 13,10 ± 0,20 | mm    |

Printed each meter by yellow ink-jet :

**CAVEL TS 22 C MADE IN ITALY 75 Ohm Euroclass Cca s1a,d1,a1 EN50117-2-3 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                      | 61,94     | kg/km |
| Total weight of cable                            | 163,00    | kg/km |
| Minimum bending radius (single/repeated bending) | 130       | mm    |
| Maximum cable pulling strength                   | 600       | N     |
| Minimum installation temperature                 | -5        | °C    |
| Operating temperature                            | -40 / +80 | °C    |

**Electrical data****ITALIANA CONDUTTORI s.r.l.**

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

**Date****14/05/2018****Responsible****Alberto Scardovi**

**Description**

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

**Data Sheet****TS22C**

|                                       |         |        |        |
|---------------------------------------|---------|--------|--------|
| Characteristic impedance              | 200 MHz | 75 ± 2 | Ohm    |
| Capacitance (@1kHz)                   |         | 52 ± 2 | pF/m   |
| Velocity Ratio                        |         | 85 %   |        |
| Inner conductor resistance            |         | 5      | Ohm/km |
| Outer conductor resistance            |         | 4,50   | Ohm/km |
| Loop resistance                       |         | 9,50   | Ohm/km |
| Sheat Insulation voltage (spark test) |         | 8      | kV     |
| Maximum current (I <sub>eff</sub> )   |         | 21     | 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++

|                 |         |
|-----------------|---------|
| 30 - 1000 MHz   | >115 dB |
| 1000 - 2000 MHz | >100 dB |
| 2000 - 3000 MHz | >85 dB  |

Shield Transfer Impedance (Z<sub>t</sub>)

Z<sub>t</sub>-Class   A+

5 - 30 MHz      < 2,5 mOhm/m

**Attenuation (at 20°C )**

| Frequency<br>[MHz] | Attenuation<br>[dB/100m] | Frequency<br>[MHz] | Attenuation<br>[dB/100m] |
|--------------------|--------------------------|--------------------|--------------------------|
| 5                  | 0,80                     | 862                | 9,10                     |
| 10                 | 1,10                     | 1000               | 9,80                     |
| 30                 | 1,50                     | 1750               | 13,30                    |
| 50                 | 2,00                     | 2150               | 14,90                    |
| 200                | 4,00                     | 2400               | 15,70                    |
| 300                | 4,90                     | 3000               | 18,30                    |
| 470                | 6,40                     |                    |                          |

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# Description

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



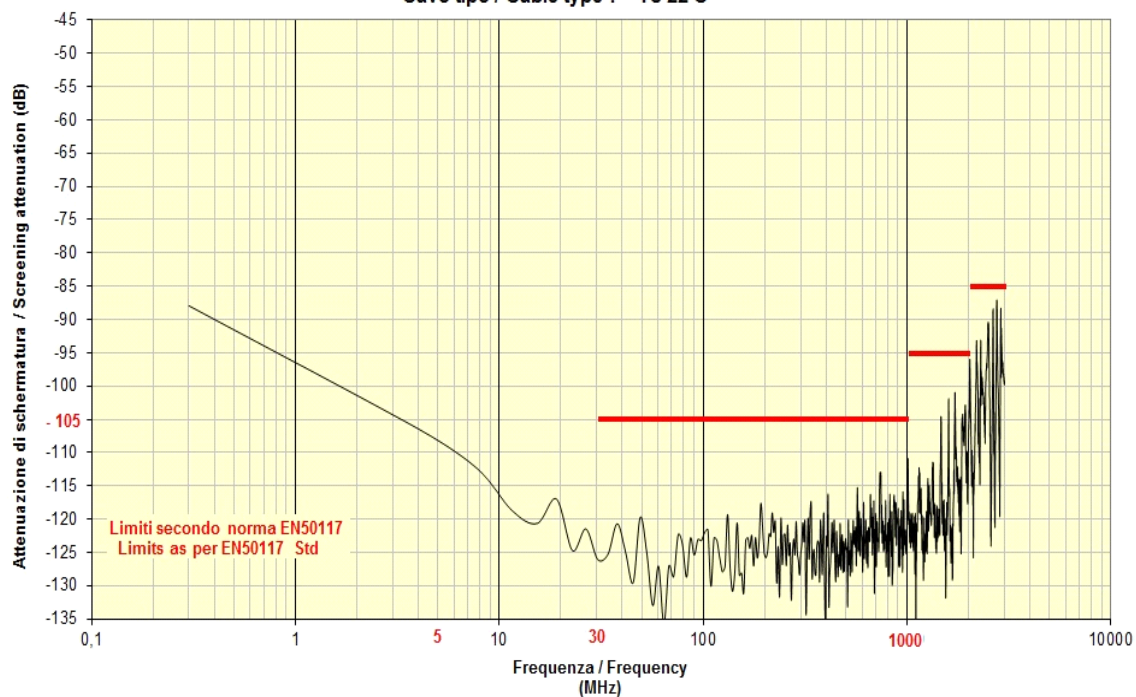
Data Sheet

TS22C

## Attenuazione di schermatura / Screening Attenuation

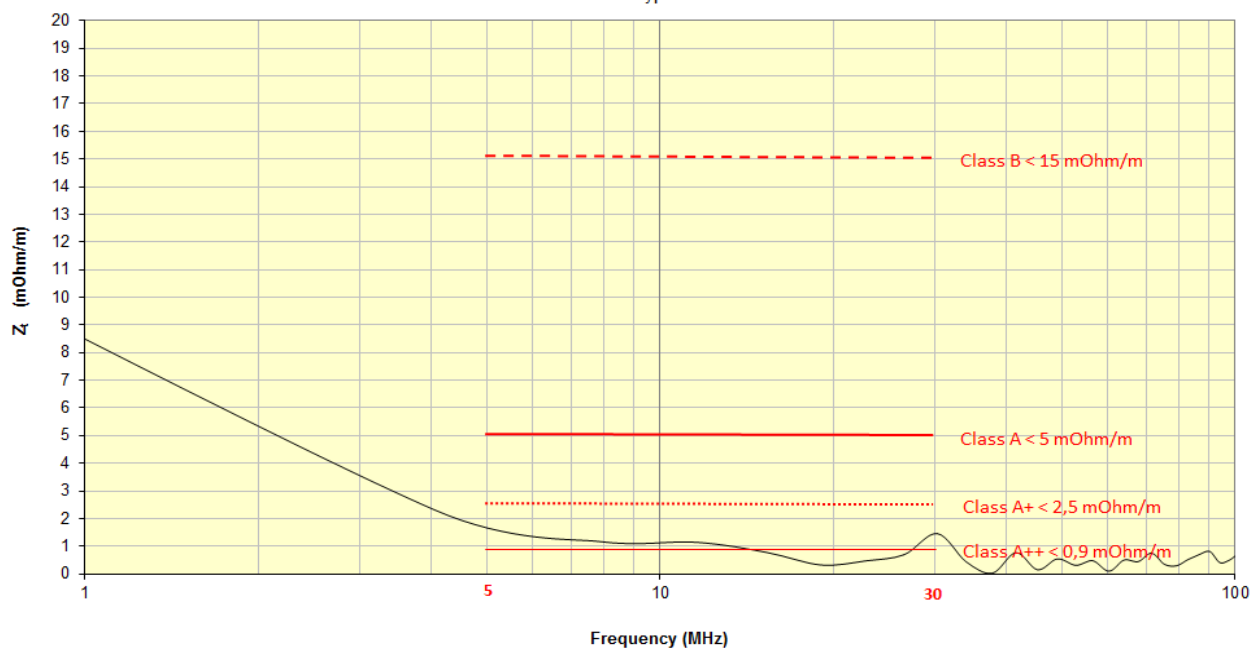
Cavo classe A++ / A++ Class cable

Cavo tipo / Cable type : TS 22 C



## Transfer Impedance

Cable type: TS22C



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Date

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