

**Description**

Triple Shielded Coaxial Drop Cable, for digital reception - 75 Ohm  
 Indoor and Outdoor installation cable (Screening attenuation - Class A++)



Data Sheet

**TS713C**



|   |      |       |                 |        |          |           |
|---|------|-------|-----------------|--------|----------|-----------|
| Ø | 1,13 | 4,80  | 4,97            | 5,37   | 5,49     | 7,00      |
|   | (Cu) | (PEG) | (Al/Pet/Al+Sur) | (CuSn) | (Al/Pet) | (LSZH-FR) |

**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**

|             |              |                |
|-------------|--------------|----------------|
| EN50117-9-2 | EN50117-10-2 | CEI-UNEL 36762 |
|-------------|--------------|----------------|

**Reaction to Fire**

EN50575

**Application**

DOCSIS 3.1 (Data Over Coax System)

CATV

4K-UHD

Indoor + Outdoor Installation

**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 |
| Aluminum/Polyester/Aluminum+Surlyn 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 Aluminum/Polyester tape longitudinally overlapped  | (Al/Pet)        |               |    |
| Diameter under Sheath  |                 | 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 EN50117-9-2 SA Class A++ CEI-UNEL 36762 C-4 (U0 = 400V) ULTRA HD / 4K gggaan m**

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

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

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Date

13/07/2023

Responsible

A. Bergaglio

## Description

Triple Shielded Coaxial Drop Cable, for digital reception - 75 Ohm  
Indoor and Outdoor installation cable (Screening attenuation - Class A++)

Coaxial Cables

**CAVEL**

since 1968

Data Sheet

**TS713C****Physical data**

|  |           |       |
|--|-----------|-------|
| Weight of copper conductors                          | 19,40     | kg/km |
| Total weight of cable                                | 55,10     | 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                                | -25 / +70 | °C    |

**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++ | Transfer Impedance (Z <sub>t</sub> ) | Z <sub>t</sub> -Class A++ |
| 30 - 1000 MHz                         | > 110 dB     | 5 - 30 MHz                           | < 0,9 mOhm/m              |
| 1000 - 2000 MHz                       | > 100 dB     |                                      |                           |
| 2000 - 3000 MHz                       | > 85 dB      |                                      |                           |

## Attenuation (at 20°C )

| Frequency [MHz] | Attenuation [dB/100m] | Frequency [MHz] | Attenuation [dB/100m] |
|-----------------|-----------------------|-----------------|-----------------------|
| 5               | 1,50                  | 862             | 16,20                 |
| 10              | 2,10                  | 1000            | 18,60                 |
| 30              | 3,30                  | 1750            | 25,30                 |
| 50              | 4,20                  | 2150            | 28,50                 |
| 200             | 8,10                  | 2400            | 29,90                 |
| 300             | 10,00                 | 3000            | 34,00                 |
| 470             | 12,50                 |                 |                       |

**Connectors**

|                 |   |
|-----------------|---|
| <b>CS03J</b>    | Stripper for Drop Cables, just for RP and TS Cables, Tools -                      |
| <b>FC02</b>     | Other Tools, Scissor multi purpose CAVEL, Tools -                                 |
| <b>FC7.0QM</b>  | Series F Compression, Quick Mount, for OUTDOOR installation                       |
| <b>FCEM7.0C</b> | Series F Compression, F Compression, for OUTDOOR installation, nitin-plated brass |

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