

**Description**

Triple Shielded Coaxial Drop Cable, for digital reception - 75 Ohm

Indoor and Outdoor installation cable (Screening attenuation - Class A++)



Data Sheet

**TS613C**

|   |      |       |                 |        |          |           |
|---|------|-------|-----------------|--------|----------|-----------|
| Ø | 1,00 | 4,60  | 4,77            | 5,17   | 5,29     | 6,90      |
|   | (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

CEI-UNEL 36762

**Reaction to Fire**

EN50575

**Application**

DOCSIS 3.1 (Data Over Coax System)

CATV

8K-UHD

Indoor + Outdoor Installation

**Construction data**

|                                                                                                |                 |               |    |
|------------------------------------------------------------------------------------------------|-----------------|---------------|----|
| Inner conductor of plain copper                                                                | (Cu)            | Ø 1,00 ± 0,02 | mm |
| Dielectric of physical foam polyethylene                                                       | (PEG)           | Ø 4,60 ± 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)                                                              |                 | 73            | %  |
| Outer Aluminum/Polyester tape longitudinally overlapped                                        | (Al/Pet)        |               |    |
| Diameter under Sheath                                                                          |                 | Ø 5,29        | mm |
| Outer sheath of Thermoplastic material - white - halogen-free, low smoke, flame retardant      | (LSZH-FR)       | Ø 6,90 ± 0,15 | mm |

Printed each meter by blue ink-jet :

**CAVEL TS 613 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 / 8K gggaa(n) m**

(gggaan=batch number m=meter marking)

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

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Date

09/03/2026

Responsible

A. Bergaglio

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**Data Sheet****TS613C****Physical data**

|                                                  |           |       |
|--------------------------------------------------|-----------|-------|
| Weight of copper conductors                      | 17,37     | kg/km |
| Total weight of cable                            | 54,88     | kg/km |
| Minimum bending radius (single/repeated bending) | 35/70     | mm    |
| Maximum cable pulling strength                   | 120       | N     |
| Minimum installation temperature                 | -5        | °C    |
| Operating temperature                            | -25 / +70 | °C    |

**Electrical data**

|                                       |         |        |        |
|---------------------------------------|---------|--------|--------|
| Characteristic impedance              | 200 MHz | 75 ± 3 | Ohm    |
| Capacitance (@1kHz)                   |         | 54 ± 2 | pF/m   |
| Velocity Ratio                        |         | 82 %   |        |
| Inner conductor resistance            |         | 22,50  | Ohm/km |
| Outer conductor resistance            |         | 10,40  | Ohm/km |
| Loop resistance                       |         | 32,90  | Ohm/km |
| Sheat Insulation voltage (spark test) |         | 3      | kV     |
| Maximum current (I <sub>eff</sub> )   |         | 6      | 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 (Zt) | Zt-Class A++ |
| 30 - 1000 MHz              | > 110 dB     | 5 - 30 MHz              | < 0,9 mOhm/m |
| 1000 - 2000 MHz            | > 100 dB     |                         |              |
| 2000 - 3000 MHz            | > 90 dB      |                         |              |

**Attenuation (at 20°C )**

| Frequency [MHz] | Attenuation [dB/100m] | Frequency [MHz] | Attenuation [dB/100m] |
|-----------------|-----------------------|-----------------|-----------------------|
| 5               | 1,70                  | 690             | 16,70                 |
| 10              | 2,30                  | 1000            | 20,10                 |
| 30              | 3,50                  | 1750            | 27,30                 |
| 50              | 4,40                  | 2150            | 30,60                 |
| 200             | 8,60                  | 2400            | 32,60                 |
| 300             | 10,70                 | 3000            | 37,10                 |
| 470             | 13,40                 |                 |                       |

**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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