

Description

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



Data Sheet

TS22C



| | | | | | | |
|---|------|-------|-----------------|--------|----------|-----------|
| Ø | 2,20 | 9,90 | 10,12 | 10,72 | 10,84 | 13,10 |
| | (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

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

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| | | | |
|---------------------------------------|--------------|--------------------------------|--------------|
| 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 (Ieff) | | 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++ | Shield Transfer Impedance (Zt) | Zt-Class A+ |
| 30 - 1000 MHz | >115 dB | 5 - 30 MHz | < 2,5 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 | 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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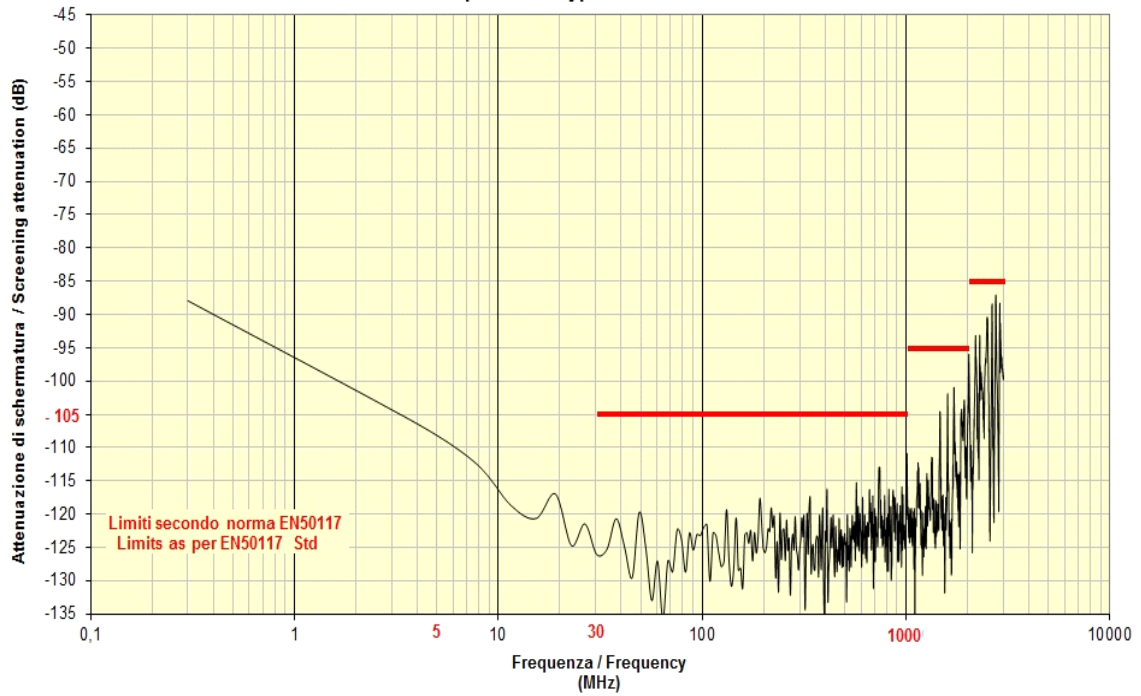
Data Sheet

TS22C

Attenuazione di schermatura / Screening Attenuation

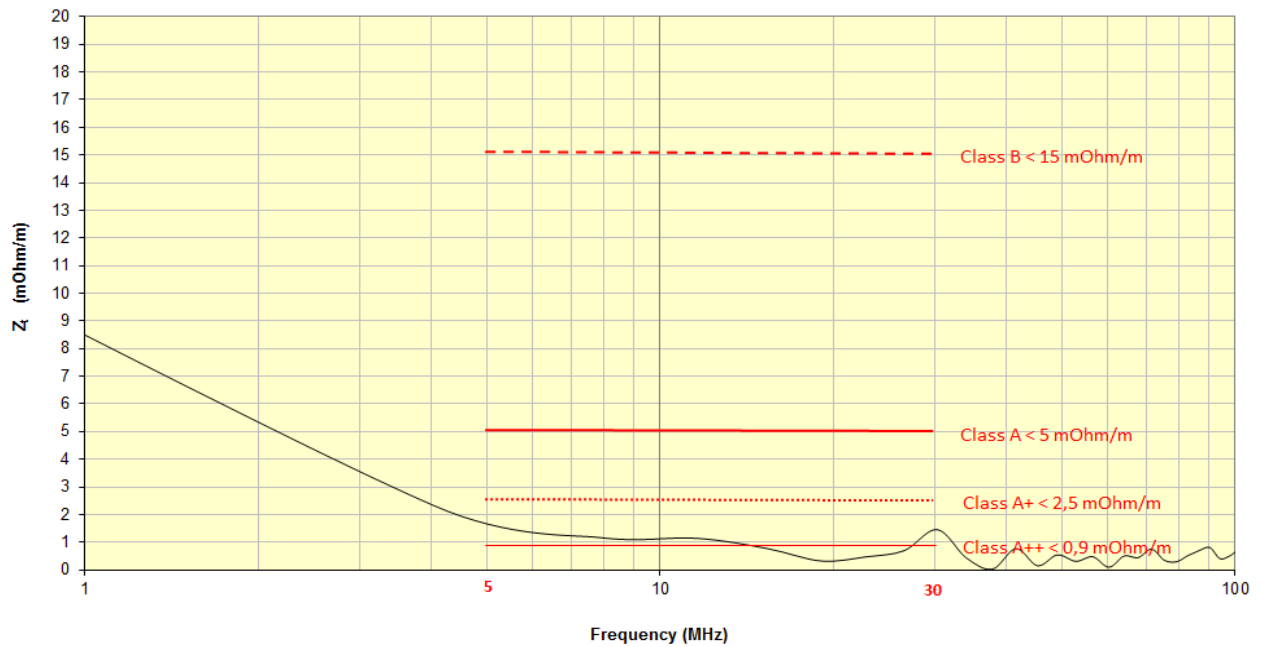
Cavo classe A++ / A++ Class cable

Cavo tipo / Cable type : TS 22 C



Transfer Impedance

Cable type: TS22C



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**Data Sheet****TS22C****Connectors**

| | |
|----------------------|--|
| FM-TL313 | Series F, male, for UNDERGROUND (Hardline) installation, nitin-plated brass - 58,5 mm x 22,5 mm |
| IEC14M-13 | Series IEC (toolless), male, for UNDERGROUND (Hardline) installation, nitin-plated brass - 70,0 mm x 23,0 mm |
| 5/8MU-13 | 5/8" connector, male, for UNDERGROUND (Hardline) installation, nitin-plated brass - 59,0 mm x 22,5 mm |
| 3,5/12M-TL313 | 3,5/12" connector, male, for UNDERGROUND (Hardline) installation, nitin-plated brass - 68,0 mm x 23,0 mm |

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