

## Description

Indoor drop coaxial cable - 75 Ohm  
Indoor installation cable (Screening Class B)



## Data Sheet

SAT602



|              |               |                     |                |               |
|--------------|---------------|---------------------|----------------|---------------|
| 1,00<br>(Cu) | 4,30<br>(PEG) | 4,40<br>(Al/Pet/Al) | 4,80<br>(CuSn) | 6,00<br>(PVC) |
|--------------|---------------|---------------------|----------------|---------------|

## Constructive data

|  |             |                |
|--|-------------|----------------|
| Inner conductor of plain copper                                      | (Cu)        | 1,00 ± 0,02 mm |
| Dielectric of physical foam polyethylene                             | (PEG)       | 4,30 ± 0,10 mm |
| Water repellent sealing (dielectric)                                 | (Jelly1)    |                |
| Aluminium/Polyester/Aluminium tape longitudinally overlapped         | (Al/Pet/Al) |                |
| Braid of tinned copper wires   | (CuSn)      |                |
| Braid optical coverage (IEC 96-1)                                    |             | 40 %           |
| Diameter under Sheath  |             | 4,80 mm        |
| Outer sheath of Polyvinylchloride - white (PVQ1BI) - lead-free (Q1B) | (PVC)       | 6,00 ± 0,10 mm |

Printed each meter by black ink-jet :

**CAVEL SAT 602 MADE IN ITALY 75 Ohm EN50117-2-4 CEI-UNEL 36762 C-4 (U0 =400V) ss/aa m**

(ss=week, aa=year) (m=meter marking)

## Electrical data

|   |        |            |                    |
|---|--------|------------|--------------------|
| Characteristic impedance (@ 200 MHz)          |        | 75 ± 3     | Ohm                |
| Capacitance (@1kHz)                           |        | 52 ± 2     | pF/m               |
| Velocity factor                               |        | 85 %       |                    |
| Outer conductor resistance                    |        | 26         | Ohm/km             |
| Loop resistance                               |        | 48,50      | Ohm/km             |
| Insulation voltage of the sheath (spark test) |        | 3          | kV                 |
| Maximum current (Ieff)                        |        | 6,00       | 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)                    |        |            | Transfer impedance |
| 30 - 1000 MHz                                 | >75 dB | 5 - 30 MHz | 2 mOhm/m           |
| 1000 - 2000 MHz                               | >90 dB |            |                    |
| 2000 - 3000 MHz                               | >75 dB |            |                    |

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Date

11/07/2008

Responsible

Pierpaolo Piccinini

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Coaxial Cables

CAVEL®

since 1968

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Attenuation (at 20°C):

| Frequency [MHz] | Attenuation [dB/100m] | Frequency [MHz] | Attenuation [dB/100m] |
|-----------------|-----------------------|-----------------|-----------------------|
| 5               | 1,80                  | 862             | 19,10                 |
| 10              | 2,30                  | 1000            | 20,60                 |
| 30              | 3,60                  | 1750            | 27,80                 |
| 50              | 4,60                  | 2150            | 31,00                 |
| 200             | 8,90                  | 2400            | 32,90                 |
| 300             | 11,00                 | 3000            | 37,10                 |
| 470             | 13,90                 |                 |                       |

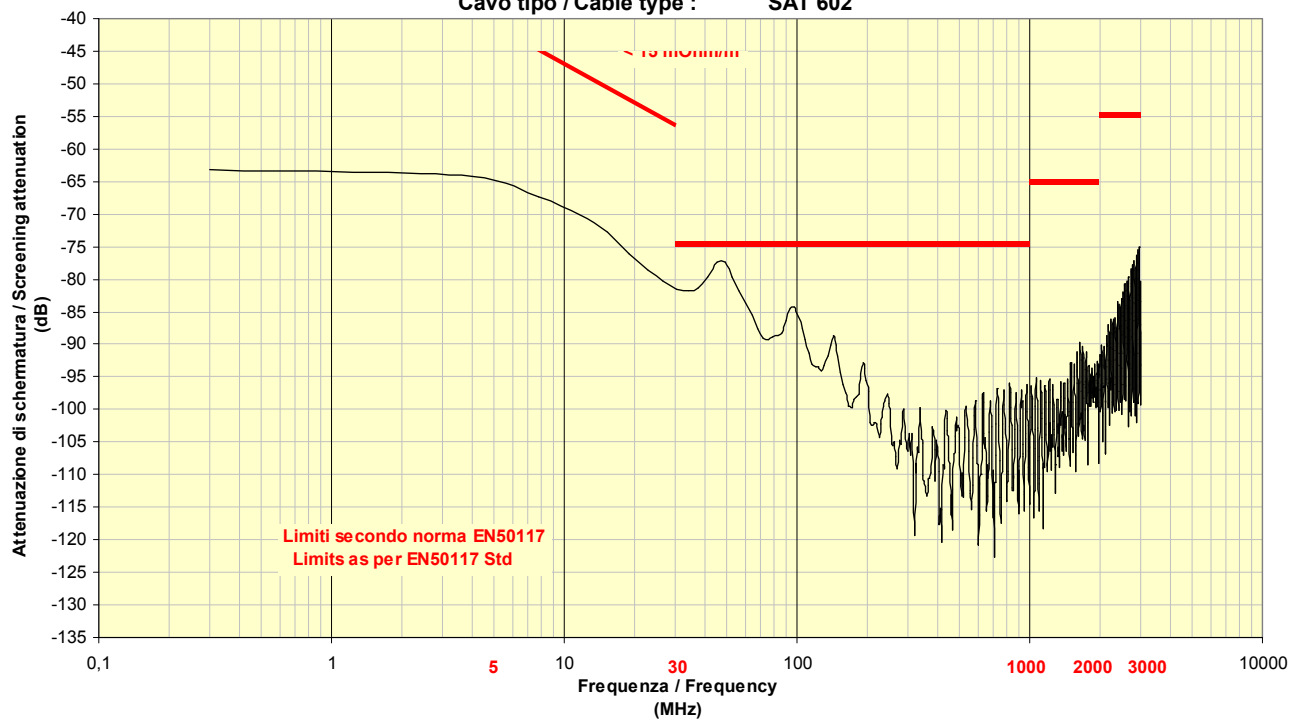
## Mechanical data

|  |       |       |
|--|-------|-------|
| Weight of copper conductors                      | 11,50 | kg/km |
| Total weight of cable                            | 32,40 | kg/km |
| Minimum bending radius (single/repeated bending) | 30/60 | mm    |
| Max. cable pulling strength                      | 120   | N     |

## Attenuazione di schermatura / Screening Attenuation

Cavo classe B / B Class Cable

Cavo tipo / Cable type : SAT 602



## Connector

|       |  |
|-------|--|
| FA602 | F male twist-on connector for indoor installation, nitin-plated brass - 22,0 x 12,0 mm |
| F602  | F male crimp connector for indoor installation, nitin-plated brass - 21,0 x 12,0 mm    |

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