

**Description**

Double Shielded Coaxial Cable, for transport and distribution - 75 Ohm  
Outdoor cable for hung-up installation (Screening attenuation - Class A)

**Data Sheet****CATV11AP**

|   |      |       |                 |        |          |               |
|---|------|-------|-----------------|--------|----------|---------------|
| Ø | 1,63 | 7,20  | 7,37            | 7,85   |          | 17,00 x 10,10 |
|   | (Cu) | (PEG) | (Al/Pet/Al+Sur) | (CuSn) | (Jelly2) | (PE)          |

**Class CPR acc. to UE 305/2011 (DoP)**

Fca

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**

EN50117-11-2

**Reaction to Fire**

EN50575

**Application**

CATV

Hung-up installation

**Construction data**

|                                                                                                 |                 |                        |    |
|-------------------------------------------------------------------------------------------------|-----------------|------------------------|----|
| Inner conductor of plain copper                                                                 | (Cu)            | Ø 1,63 ± 0,03          | mm |
| Dielectric of physical foam polyethylene                                                        | (PEG)           | Ø 7,20 ± 0,10          | mm |
| Aluminum/Polyester/Aluminum+Surllyn tape longitudinally overlapped and bonded to the dielectric | (Al/Pet/Al+Sur) |                        |    |
| Braid of tinned copper wires                                                                    | (CuSn)          |                        |    |
| Braid optical coverage (IEC 96-1)                                                               |                 | 63                     | %  |
| Tracer Identifier                                                                               | Year + Flag     |                        |    |
| Water repellent sealing (sheath)                                                                | (Jelly2)        |                        |    |
| Diameter over Braid                                                                             |                 | Ø 7,85                 | mm |
| Outer sheath of Polyethylene - black (RAL 9011) - with carbonblack                              | (PE)            | Ø 17,00 x 10,10 ± 0,15 | mm |
| Messenger rope of zinc-plated steel                                                             | (FeZn)          | 7x0,80                 | mm |
| Printed each meter by yellow ink-jet :                                                          |                 |                        |    |

**CAVEL CATV 11 AP MADE IN ITALY 75 Ohm Euroclass Fca EN50117-11-2 SA Class A gggaan m**

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

|                                    |     |    |
|------------------------------------|-----|----|
| Messenger Maximum tensile strength | 500 | kg |
|------------------------------------|-----|----|

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

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**Date****09/09/2022****Responsible****A. Bergaglio**

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**Data Sheet****CATV11AP****Physical data**

|                                                  |           |       |
|--------------------------------------------------|-----------|-------|
| Weight of copper conductors                      | 34,57     | kg/km |
| Total weight of cable                            | 124,20    | kg/km |
| Minimum bending radius (single/repeated bending) | 100       | mm    |
| Maximum cable pulling strength                   | 300       | N     |
| Minimum installation temperature                 | -5        | °C    |
| Operating temperature                            | -40 / +80 | °C    |

**Electrical data**

|                                        |         |        |        |
|----------------------------------------|---------|--------|--------|
| Characteristic impedance               | 200 MHz | 75 ± 2 | Ohm    |
| Capacitance (@1kHz)                    |         | 52 ± 2 | pF/m   |
| Velocity Ratio                         |         | 85 %   |        |
| Inner conductor resistance             |         | 8,50   | Ohm/km |
| Outer conductor resistance             |         | 10     | Ohm/km |
| Loop resistance                        |         | 18,50  | Ohm/km |
| Shield Insulation voltage (spark test) |         | 8      | kV     |
| Maximum current (I <sub>eff</sub> )    |         | 16     | 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 | Transfer Impedance (Z <sub>t</sub> ) |          |
| 30 - 1000 MHz              | >85 dB     | 5 - 30 MHz                           | < 8 mΩ/m |
| 1000 - 2000 MHz            | >95 dB     |                                      |          |
| 2000 - 3000 MHz            | >90 dB     |                                      |          |

**Attenuation (at 20°C )**

| Frequency [MHz] | Attenuation [dB/100m] | Frequency [MHz] | Attenuation [dB/100m] |
|-----------------|-----------------------|-----------------|-----------------------|
| 5               | 1,10                  | 690             | 10,50                 |
| 10              | 1,50                  | 1000            | 13,00                 |
| 30              | 2,20                  | 1750            | 17,90                 |
| 50              | 2,80                  | 2150            | 19,00                 |
| 200             | 5,50                  | 2400            | 22,00                 |
| 300             | 6,90                  | 3000            | 25,00                 |
| 470             | 8,80                  |                 |                       |

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**Data Sheet****CATV11AP****Connectors**

|                      |                                                                                                              |
|----------------------|--------------------------------------------------------------------------------------------------------------|
| <b>3,5/12M-TL232</b> | 3,5/12" connector, male, for UNDERGROUND (Hardline) installation -                                           |
| <b>5/8MU-TL232</b>   | 5/8" connector, male, for UNDERGROUND (Hardline) installation, nitin-plated brass - 69,0 mm x 20,5 mm        |
| <b>C75-5L</b>        | Indoor Fittings, 75 Ohm Terminator, for INDOOR installation                                                  |
| <b>CCFM75GI</b>      | Indoor Fittings, 75 Ohm Terminator, for INDOOR installation                                                  |
| <b>CS17</b>          | Stripper for Distribution Cables, male, Tools -                                                              |
| <b>DR01</b>          | Adapter, Nut and Washer, for INDOOR installation                                                             |
| <b>F163</b>          | Series F Crimp, F Crimp, for INDOOR installation, nitin-plated brass - 35,0 mm x 14,0 mm                     |
| <b>F81-HQ</b>        | Adapter, F Adapter FF, for INDOOR installation                                                               |
| <b>FA17/73</b>       | Series F Twist-On, F Twist-On, for INDOOR installation, nitin-plated brass - 33,0 mm x 14,5 mm               |
| <b>FC11QM</b>        | Series F Compression, Quick Mount, for OUTDOOR installation                                                  |
| <b>FM-FF90</b>       | Adapter, FM - FF 90°, for INDOOR installation                                                                |
| <b>FM-TL232</b>      | Series F, male, for UNDERGROUND (Hardline) installation, nitin-plated brass - 76,0 mm x 31,0 mm              |
| <b>IEC14M-32</b>     | Series IEC (toolless), male, for UNDERGROUND (Hardline) installation, nitin-plated brass - 64,5 mm x 21,0 mm |
| <b>LTE790</b>        | Indoor Fittings, Filter, for INDOOR installation                                                             |
| <b>MM-F703</b>       | Adapter, F Adapter MM, for INDOOR installation                                                               |
| <b>MM-FR703</b>      | Adapter, F Adapter MM, for INDOOR installation                                                               |
| <b>NM-32</b>         | N Connector, male, for UNDERGROUND (Hardline) installation, nitin-plated brass - 62,5 mm x 21,0 mm           |
| <b>SAT2VS</b>        | Indoor Fittings, F SAT 2-way Splitter, for INDOOR installation                                               |
| <b>SR01-32</b>       | Adapter, for 11/50 - RG11, for UNDERGROUND (Hardline) installation                                           |

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