

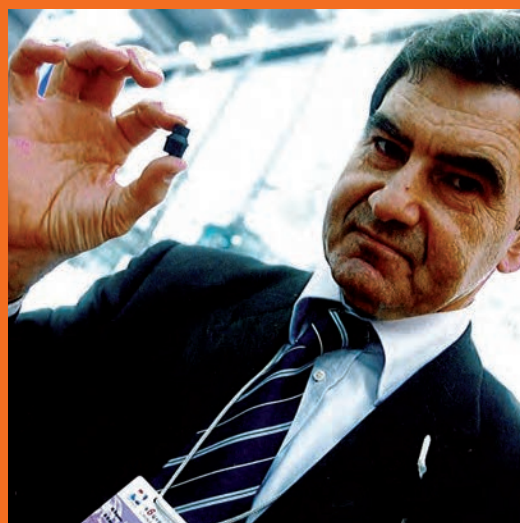


**TELECOM
& SECURITY**

be able with cable

CaP System

*Innovate by simplifying.
With this philosophy CaP
has been realized*



Innovate by simplifying

"Innovating by simplifying" is the philosophy that always guided me and allowed Telecom & Security to propose intelligent solutions, well-received and appreciated by the market, thanks to which today the company is positioned among the best players in the industry.

Even before being a designer and entrepreneur, many years of experience, gained in the field alongside installers, allowed me to acquire that precious information that no book or manual could ever have given me.

The CaP - Pressure-On Connector - is born from an intuition, from that hidden desire that every entrepreneur has within him and that pushes him, day after day, perhaps unknowingly, beyond the possible and the thinkable, for the good of his company and of the people who share with it the troubled and adventurous destiny.

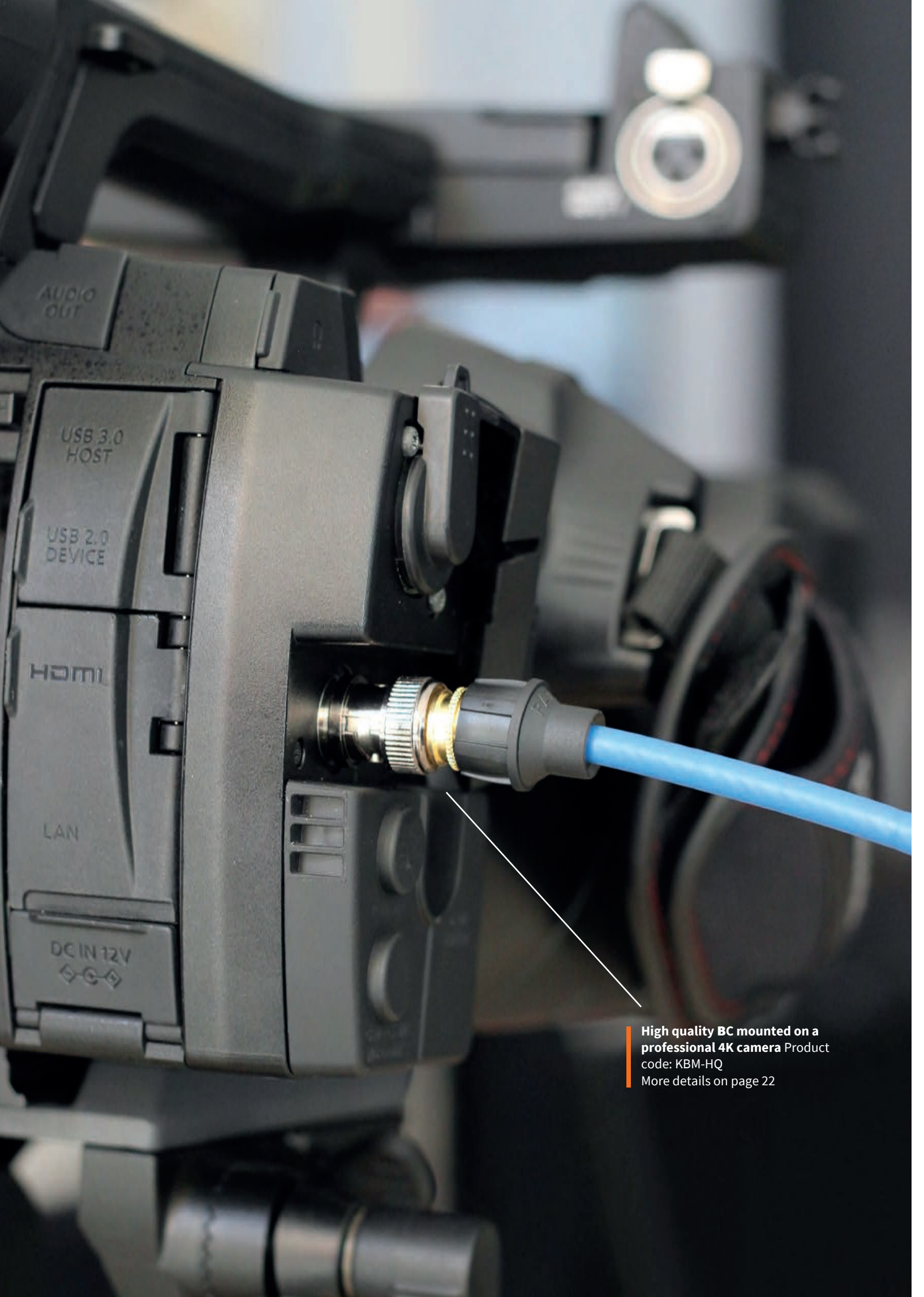


The CaP had probably been on my mind for some time, had just need an excuse that, thanks to my fiddling with a Bic pen and its cap, one day it took shape, going far beyond mine in a very short time thoughts and my most daring forecasts.

Thanks to its unique features, our patent not only has it revolutionized the way connections are made analogue type, since installers can use some truly unique advantages, but made otherwise possible

many other applications that use coaxial systems, such as sockets, flying plugs and other products, so as to give life to a real and own system that today is known as CaP System and that I invite you to discover between the pages of this catalog. With the CaP I received really important national and international awards. However, they are very little compared to the positive feedback that day by day, You installers continue to give me, for having conceived, designed and produced in Italy a system that has made your work certainly easier and more effective.

Giovanni Pugliese,
Engineer and Managing Director of Telecom & Security S.r.l.



High quality BC mounted on a professional 4K camera Product code: KBM-HQ
More details on page 22

CaP System





Product code: CaP
Connector: F male
Material: black plastic compound
Unit weight: 1g
Package: 100 pcs.
Certifications: CE – RoHS – SCTE

DESCRIPTION

Black Pressure-On Connector, for all coaxial cables covered by national and international patent. Simple and quick, universal for any cable, inexpensive, reusable and recyclable, made in Italy, mechanically resistant, electrically optimal, available in 9 colors.

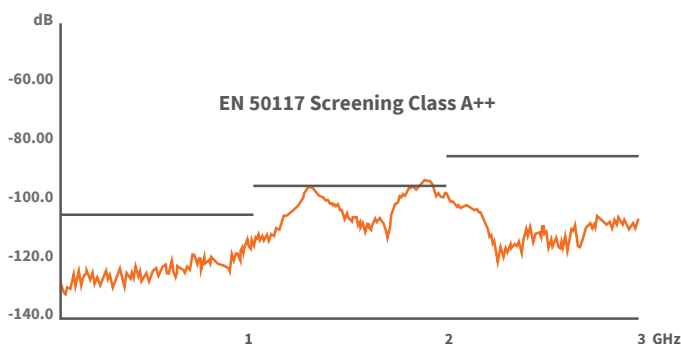
Bandwidth: 0 ÷ 6000 MHz
Passage loss: < 0,022 dB @ 0÷3000 MHz
Return loss: > 23,02 dB @ 0÷3000 MHz
Impedance: none therefore it can be used with any coaxial system (50, 75, 92, ... ohm) **Screening:** class A+
In compliance with: EN 50083-4; CEI 100-7
Service temperature: from -40°C to +120°C
Elongation at break: 650%
 Resistance to UV rays and atmospheric agents
Flame retardant version (UL94 V0): available on request

Perfect for all coaxial systems:

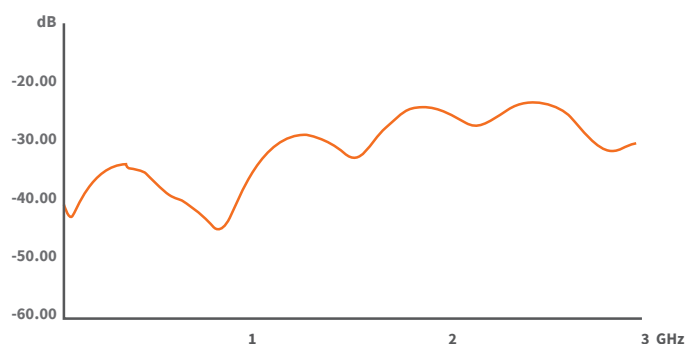
- Telecommunications
- Videosurveillance
- Broadcasting
- Professional equipment
- Home Theatre
- Custom cabling

CaP electrical characteristics

SCREENING



RETURN LOSS



Cap is available in 9 colors

All the CaPs in the different colors are of the same size and are all equally usable with any cable up to 7mm in diameter.

The black cap is the ideal choice for use outside the building as it is protected from UV rays; the various colors are recommended, however, for indoor use.

The colors can also be used for convenient coding of the different applications (for example, CCTV or TV system), or even to differentiate the different units of a system: for example, each camera can be assigned a different color



Black
Product Code: CaP



Orange
Product Code: CaP/O



Cyan
Product Code: CaP/C



White
Product Code: CaP/W



Yellow
Product Code: CaP/Y



Green
Product Code: CaP/G



Red
Product Code: CaP/R



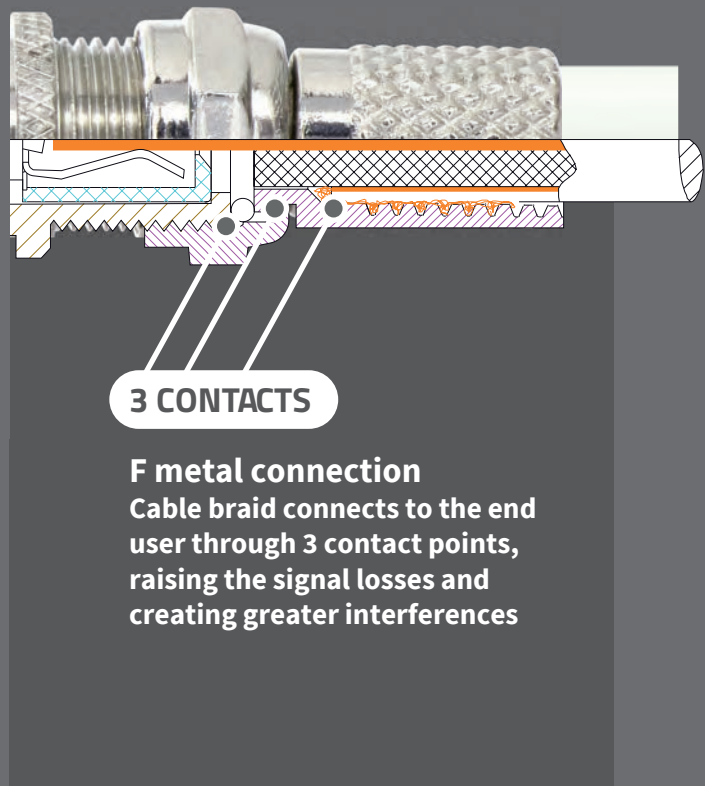
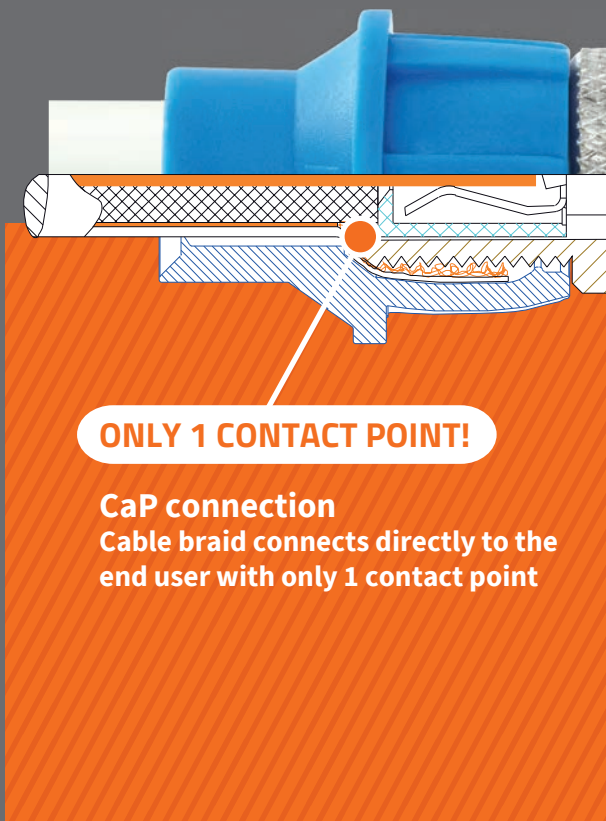
Blue
Product Code: CaP/B



Grey
Product Code: CaP/Gr

CaP vs F metal

	CaP	screw-on	crimp	compression
inert plastic material for electrical connections	✓	-	-	-
number of parts	1	2	2/3	2/3/4
number of contact points	1	3	3	3
compatibility with different diameter cables	✓	-	-	-
pull-out resistance	high	low	medium	high
installation time	fast	slow	medium	fast
reusability	✓	✓	-	-
cost	low	low	medium	high



What is the CaP System?

The CaP, patented heart of the CaP System, is a revolutionary non-metallic F male connector designed to make every coaxial termination simple, quick and reliable and to drastically reduce all typical problems which arise in terminating coaxial cables. The CaP, directly installed on any F female equipped device (look pag. x) , creates the best termination possible.

The CaP, together with our adapters (vedi pag. 16), become a connector it can be used on all existing coaxial standard.



CaP is the worldwide only one connector:

-  simple and quick
-  universal for any cable
-  economic
-  reusable and recyclable
-  worldwide patented
-  made in Italy
-  mechanically strong
-  electronically superior
-  available in 9 colours

Many cables, one solution

Up to today every model/dimension of cable has its specific model of connector.

CaP solves this problem: thanks to its unique features, CaP can be used with any size coaxial cable (from miniature coaxial through RG6 Quad, 50 or 75 Ohm impedance, plenum or not, with any type of shielding or braid, indoor or outdoor, ...).

CaP is the one and only connector for many cables!.



From RG179 al RG6 quad



One solution, many applications

Thanks to its versatility, CaP can be used in many applications and industries: from Terrestrial and Satellite TV to Home Theatre systems, from Video Surveillance to Broadcasting, from Telecommunication Networks to RF Instruments, to Custom Cabling.

Everywhere a coaxial cable is used, the CaP finds an advantageous application.



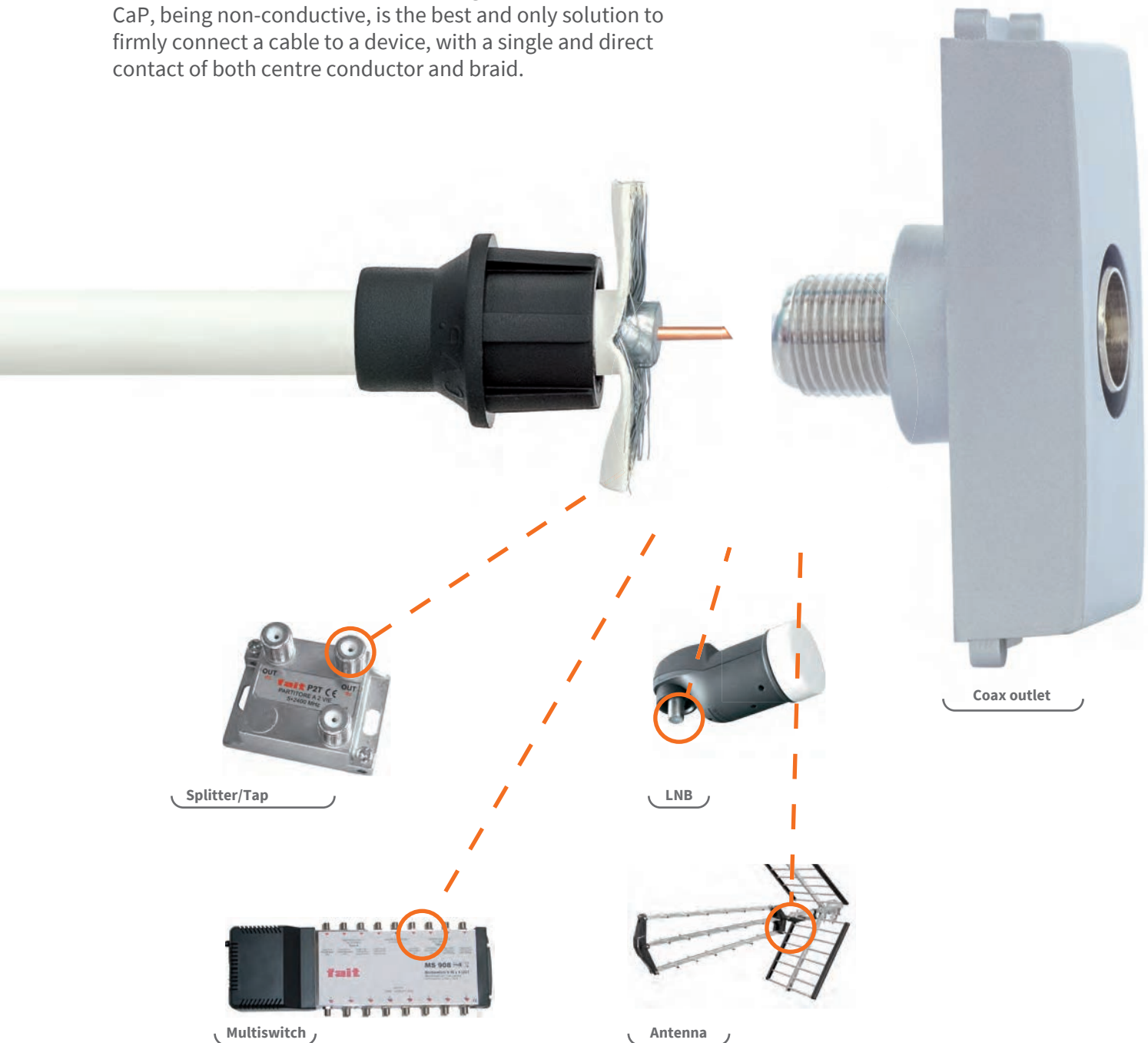
From micro coax to 7mm



CaP as an F male connector

CaP is a direct replacement of any traditional F male metallic connectors, either screw-on, crimp or compression type. For this reason it can be used to connect directly onto any device equipped with F female connectors.

By not using the standard F metal connector you take away the main part of the connection therefore you remove all interferences in the radio-frequency signal transmission. CaP, being non-conductive, is the best and only solution to firmly connect a cable to a device, with a single and direct contact of both centre conductor and braid.

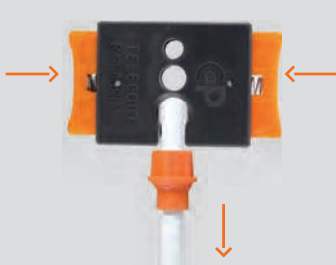


Cable preparation

- 1 Slide the CaP on to the coaxial cable



- 2 Insert the coaxial cable into the side slot of the stripping tool (SPC) about 1cm (3/8"); gently squeeze the blades while pulling the cable out to slit both sides of the jacket.



- 3 Expose the dielectric by pushing backwards the jacket and the braid.



- 4 Insert the cable in the round hole until the dielectric just peaks on the other side. Rotate the tool +90° while squeezing the blades to cut and remove the dielectric.



Terminate connection with Pu-PuCaP

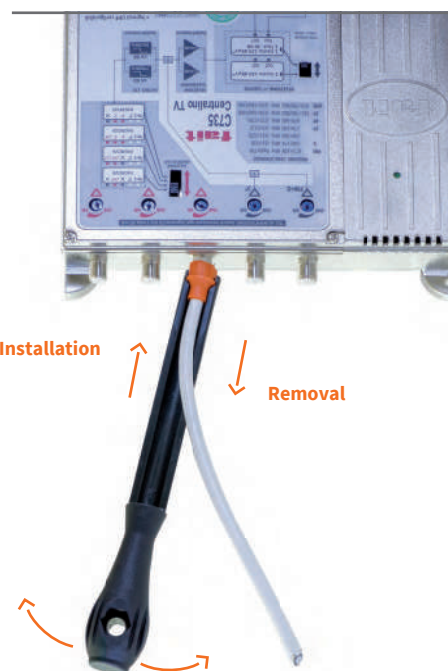
To allow for an easier installation of the CaP onto large devices, in restricted spaces or when F female connectors are placed very close together, we developed a specific inserter/extractor tool (Pu-PuCaP).

INSTALLATION

After having prepared the cable (see instructions here), insert the CaP in the specific groove positioned at the top of the Pu-PuCaP and insert the central conductor into the F female connector. Slide the CaP over the F female, thus folding the braid and the jacket over the thread. Terminate the connection by swinging and at the same time pushing forward the Pu-PuCaP up to the complete insertion of the CaP onto the F female connector.

REMOVAL

Hook the Pu-PuCaP on the CaP by means of the specific groove of the tool. Swing and at the same time pull down the Pu-PuCaP up to the complete disconnection of the CaP and the cable from the device.



CaP as coaxial connector

CaP, when used with our specific F female adapters, becomes a coaxial connector in any available standard (IEC, RCA, BNC, F, ...) male or female, straight or right angled, 50 or 75 Ohm.

For high professional use are available our BNC HQ male and GC HQ adapters (Return Loss > 30 dB @ 3 GHz).



IECm



IECf



RCAm



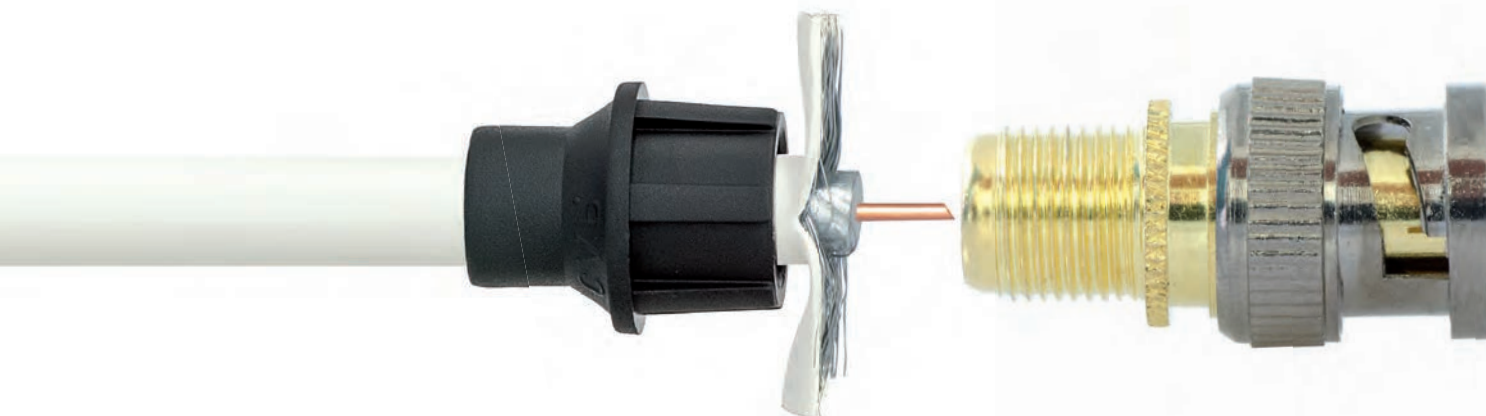
RCAf



BNCm



BNCf



BNCm HQ

Features of our adapters

All our adapters have been specifically designed to reach optimal performances when used with the CaP, thanks to their unique features:

central groove: to allow for a solid engagement with the pliers during installation and removal;

internal structure: specific dielectric and elastic yet strong clip, to have a better contact with a large range of conductors;

external body: single and compact element, to have smaller dimensions and lower signal losses.



Fm a vite



Fm a vite 90°



Fm rapido



Fm rapido 90°



Ff



Ff HQ



How to prepare the cable
at page

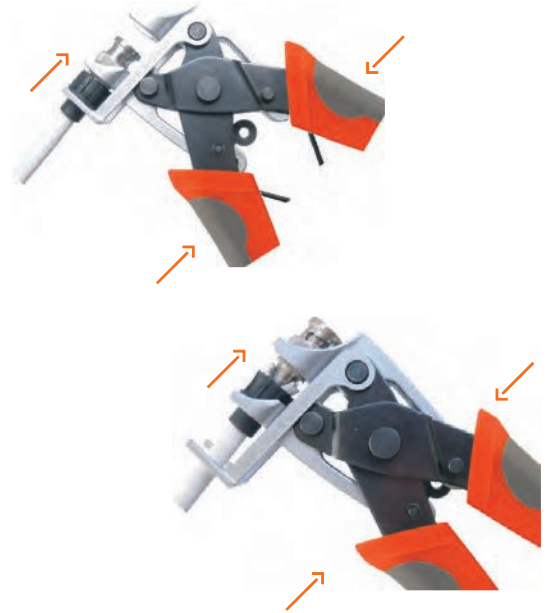
Terminate connection with ProCaP

INSTALLATION

After the cable preparation (see instructions here) , insert the centre conductor into the F female connector and fold the braid and the jacket over the thread by sliding the CaP over it. Lay the coaxial cable through the flat side of the professional pliers (ProCaP). Slip the connector groove in the fingers on the far side. Gently squeeze the pliers to secure the connector. Unlike compression connectors, CaP does not require force.

REMOVAL

With the ProCaP fully open, insert the connector groove in the middle fingers and squeeze the handles to open the connection.



Terminate connection with PiCaP

INSTALLATION

After the cable preparation (see instructions here) , insert the centre conductor into the F female connector and fold the braid and jacket over the thread by sliding the CaP over it. Insert the connector between the handle tips of the economic pliers (PiCaP). To terminate the connection squeeze the handles, placing your hand near the connector to obtain greater leverage.

REMOVAL

Insert the connector groove in the fingers (closed) at the top of the PiCaP and squeeze the handles to open the connection.





be able with cable

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