

# CHRISTMAS NEWSLETTER

# CORNING



Corning  
Cabelcon

Christmas  
2011



Cabelcon wish all our customers and readers  
Merry Christmas and Happy New Year



# Christmas - is a time for connections...

Very few people spend Christmas thinking of cables and connectors, but if you think of it Christmas is all about making connections. You connect the lights on the Christmas tree, you connect to old friends through the annual Christmas letter, you connect to the relatives that you don't always have time for and you connect to your closest family. In the spirit of Christmas, some even connect with their enemies, or long lost connections.

And after two or three days of making Christmas connections, what you really want to do is lean back and watch CATV. That's when you want the connection to be clear as ever. That's when you want to Connect with Cabelcon.

## - and a time to be thankful

We feel a very strong connection to our customers and suppliers and are thankful that a lot of you have chosen to stick with us for decades. We wish to thank you for the business that we have done together in the past and we look forward to cooperating with you in the future. We also wish to welcome our new customers and readers. We hope you have already experienced the quality and reliability of our products and look forward to remain your preferred supplier of CATV connectors and accessories.

May 2012 bring you all lots of progress and development.

*Happy Xmas*

## New warehouse and shipping department



*There is room inside for quite some connectors*

Cabelcon's business activities have grown considerably during recent years. New product ranges, such as fiber optic products have also been added to our product portfolio. We were experiencing a severe lack of space in our shipping department and the need for more room became evident.

Our new warehouse was opened in August 2011. The size is about 1000 Sqm. This warehouse also contains our shipment department, where the smaller boxes are stacked on pallets and prepared for shipment all over the world. Also a first floor is established in a part of the building to be used for future expansion of offices.



*Approx. 1000 sqm warehouse and shipment department*



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Full range of Self-Installs

**Upcoming Exhibitions**

CSTB 2012  
Moscow, Russia  
7th to 9th February 2012

**Contact**

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**Frontpage photo:**  
Corning Cabelcon Factory at Christmas Time

## Cabelcon Innovations - the polymer sleeve

For many years Cabelcon have been the leading manufacturer of hard-line/trunk connectors in Europe – not least driven by creativity and innovation. We have been in a position to offer the words largest range of connectors for almost any coax cable, both in Europe and abroad.

In future newsletters we will draw your attention to some of the unique features developed by Cabelcon and we begin with the polymer sleeves used among others in our broadband trunk connectors.

Starting in the mid nineties Cabelcon developed a brand new range of connectors for a world leading manufacturer of coaxial RF-cables. These connectors were designed for fast and safe installation to fit a new range of smooth wall cables intended for wireless cellular applications (mobile phone systems).

During the development process it became clear that the presence of a metal sleeve (usually made from brass or iron) used to stabilize and support the cable, would be a potential source for IMD/CPD problems when installed on various types of cables. And why is that?

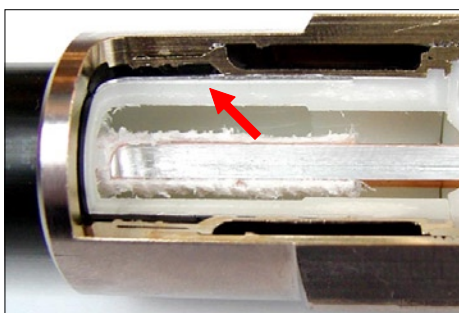
In many types of trunk cables, the dielectric consists of foam, which is bonded not only to the inner conductor, but also to the inside of the outer conductor. This is done to stabilize unparallel movements between the conductors caused by bending and temperature changes.

However, while the cable preparation tool removes the soft dielectric to make room for the support sleeve, it cannot clean the inside of the outer conductor.

This means that a thin “isolating” layer of remaining foam or glue represents a capacitor between the metal sleeve and the outer conductor. That can cause serious intermodulation problems.

Exactly the same will happen with the broadband trunk connectors. It was not a big issue in the mid nineties – because return path systems, IP telephony, data services and a large number of digital TV channels did not exist at the time.

Even then Cabelcon decided to use high tech polymer instead of metal for the sleeve. And that effectively eliminates the serious potential IMD problem.



*The strong white polymer sleeve supports the thin - in this case aluminium - outer conductor*

At the same time we decided to develop and test our connectors for use up to 3 GHz. Both are very good examples of being ahead of time. It also means that Cabelcon connectors installed several years ago – are safe to use also for the future.

Some other manufacturers have chosen to follow our lead, while others are still making metal sleeves.

## New IEC Self-Install connectors with Class A+ Specifications

Cabelcon introduces a new IEC male connector for easy installation without compression tools. This connector is equipped with an insert like our compression connectors to ensure excellent Class A+ screening capabilities – including the transfer impedance.

It's a well-known fact that many IEC connectors intended for consumer installation is of poor quality. They are usually easy to install – but the screening efficiency is far from being qualified for use in modern HFC networks.

This becomes more and more important with the many on-the-air and cable network services established, and the rapidly growing number of wireless terminals operating in the same frequency bands. An example is the new LTE network, soon coming into operation in the 800 MHz band. LTE will include the “former” TV channels 68 & 69 and poor screening of cables and connectors can therefore cause serious problems for the network services.

The new Cabelcon IEC self installs are not only safe to use, but also very easy to install for anyone by the use of ordinary household tools.

The cable tolerances are wide for this connector. For the time being, the new IEC's are available only in size 5.1, but also fits many size 4.9 cables.

### Ordering information

IECM-56 5.1 Self Install	99909686
IECF-56 5.1 Self Install	99909690



*Datasheet for 99909686*

### Cabelcon introduces 2D bar codes

QR is short of “Quick Response” and is a 2D barcode. A scanning of the QR code with your SmartPhone takes you direct to more information on the internet - if a QR reader is installed in your mobile. Readers are available free of charge for all brands of mobiles from various sources. Just google “QR readers”.



*IEC Self-Installs' for easy installation. The insert ensures Class A+ screening*

# Product News

## New CX3 HP for RG6 and 59 cables

Cabelcon is now offering CX3 HP, a more competitive solution with superb electrical and mechanical characteristics similar to our the original CX3's.

CX3 HP is a true Cabelcon High Quality product, featuring all the well-known Cabelcon CX3 performance capabilities. The only difference is that the brass shell is replaced by a UV stabilised High Tech Polymer solution supported by a brass ring at the end - still keeping it very strong and resistant to corrosion and UV radiation. The brass sleeve and the nut is of course Nitin-6™ plated.

CX3 HP is a great product with superb screening and return loss capabilities. Return loss in excess of 40 dB and shielding up to 3GHz is 130 dB. And of course it's 100 % waterproof without any additional protection. You simply cannot get it better!

Use the CX3 HP for CATV, satellite LNB's, receivers, cable modems, set top boxes and all other applications where you are using the original CX3.



## Full range of Self-Installs'

Our widely known Self-Install™ connectors are now available in five sizes. The latest addition is the small size 3.7.



Rightmost - the new 3.7 size

### Ordering information

F-59 3.7 Self-Install 99909637

## Technical Data (Typical)

Operational to 3 GHz	
Impedance	75 Ω
Shielding Eff. 30 - 3000 MHz	130 dB
Transfer Imp. 5-30 MHz	0.07 mΩ/item
Return loss 0.3 - 500 MHz (typ)	46 dB
Return loss 500 - 1000 MHz (typ)	46 dB
Return loss 1000 - 3000 MHz (typ)	40 dB
IMD (3rd order@2x100mW)	-147dBc
IMD (IP3 value)	+100 dBm
AMP rating	c cable data
Max. Tensile strength (overall)	235 N

## Ordering information

F-56-CX3 HP 3.9 99909021  
 F-56-CX3 HP 4.9 99909041



Scan the code for access to more information on the HP's and a datasheet

Distributor:

