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New CX3 BNC male compression connector

Until now there have been some common problems with BNC connectors like time consuming installation, many loose parts to assemble, poor pull off strength and poor return loss (VSWR).

These problems have been solved in Corning Cabelcon's new series of BNC connectors for RG6/59 cables. The mechanical and electrical performances are outstanding with excellent pull strength and a remarkable return loss specification: > 30 dB @1GHz.

The BNC compression connectors are Nitin-6™ plated and easily installed with no loose parts.

CX3 BNC connectors will be available from January in more sizes to cover most RG6/59 cables:



CX3 BNC male compression connectors

| Description | Item number |
|---------------------|-------------|
| BNCM-59-CX3 3.7 | 99909472 |
| BNCM-59-CX3 3.9 | 99909473 |
| BNCM-59-CX3 3.9/HEC | 99909474 |
| BNCM-56-CX3 4.9 | 99909475 |
| BNCM-56-CX3 5.1 | 99909476 |

Redesigned IECM angle crimp connector

Corning Cabelcon presents a redesign of the IECM angle connector.

A new design of the center conductor system provides a fine and flexible contact to the inner conductor of the cable. The flexibility means that the connector is able to cover cables with inner conductor dimensions ranging from 0.5 to 1.2 mm.

The IECM angle crimp connector will be available from January in more versions:

| Description |
|---------------------------------------|
| 90-IEC14M-56-UNIV 4.9/8.8 |
| 90-PG11/IECM-56-UNIV 4.9/8.8 |
| 90-IECM-56-UNIV 5.1/8.8 (without nut) |



IECM angle crimp connectors

| Item number |
|-------------|
| 99450059 |
| 99450072 |
| 99450060 |

New modernised website

Our website www.cabelcon.dk has been reorganized and »face lifted«.

A major change is the navigation panel, which has been moved to the top of the pages. The »CATV catalogue« link has changed to the more adequate name »catalogue«, as 50 Ohm products will be included as well.

The catalogue search principles are unchanged. More product information such as barcode numbers and package quantity for each product is now available. The use of the site should be easy, when you have accustomed yourself to it.

Please find on the main page a guide explaining the navigation structure.

Article

CX4 sets the new standards in connectorization

The demand for ease of installation and extended services like Internet, Video on demand and VoIP has changed connectorization forever.

We are all familiar with old designed connectors including poor shielding, dirt and scrap inside, blind entry, 7-8 turns of the back nut, big teeth marks, water migration and betraying IMD problems.

Cabelcon has done it. It is our obligation. Designed a connector offsetting weaknesses and adding features you are going to ask for and rely on. The name is CX4:

The CX4 is a high precision connector. The illustration shows the perfect CX4 installation. Cabelcon's recommended preparation tools and guidelines are a premise that cannot be stressed enough in order to gain full benefit from the connector.

The activator

The back-nut is easily placed over the stripped cable. The activator of the connector is designed to ensure that the inner conductor of the cable is positioned correctly in the centre seizing system. So, when the back nut is tightened to physical stop, the inner conductor is safely in place.

The material of the activator is a specifically designed PP composite with fibreglass. It possesses the flexibility to accept tolerances on the cable, yet still has the strength to stay stable after climatic changes from -40 to +85° C.

The centre seizing system

Also the COC material of the insulator in the centre seizing system is a unique Cabelcon design that guarantees a stable connection throughout the connector's lifetime. This detail is of great importance, as the IMD/CPD (Intermodulation distortion) parameter is reactive to even the slightest changes in the centre seizing system. More on this on the back page.

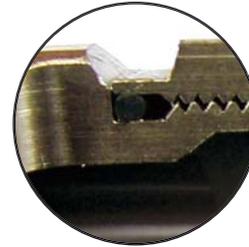
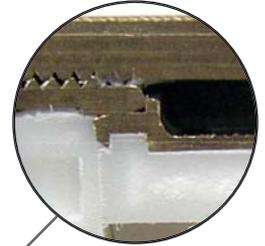
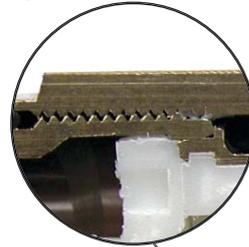
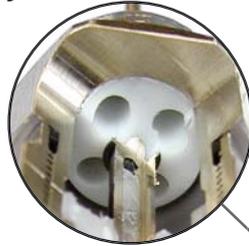
Multithread

Thanks to Cabelcon's multithread system the final tightening to physical stop is done with low force and the rotations necessary are reduced to one third of what is normally needed. This is a valuable detail as trunk and distribution connectors are often placed in boxes and street cabinets with limited

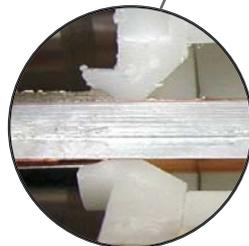
Multithread for easy installation

COC composite insulator to ensure a stable mechanical performance

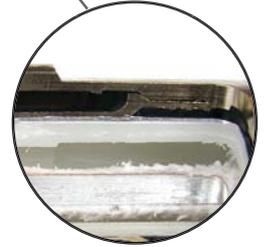
Self locking ferrule system with 360° screen contact



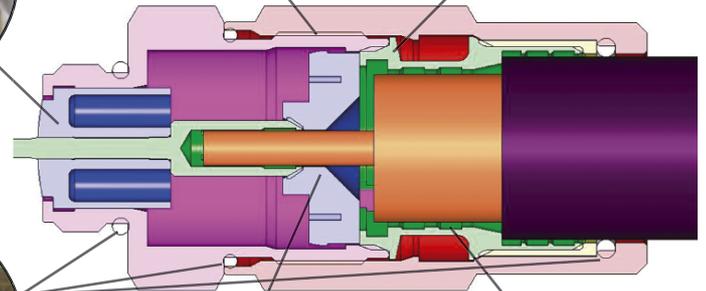
EPDM O-rings ensure resistance against moisture intrusion



Activator made of special PP fibreglass



A Strong grip on the jacket and the outer conductor without damaging the cable



working space.

Self locking ferrule system

CX4 has a patented self-locking ferrule system to prevent rotations on the cable during installation. The conical ferrule locks the cable, while the connector is tightened to physical stop.

The ferrule design also ensures a true 360° grip both on the jacket and the outer conductor of the cable. The grip exceeds the recommended pull strength by more than 50 % while avoiding potential damage to the cable. The powerful and precise grip is important for electrical performances such as transfer impedance, intermodulation and screening efficiency.

The CX4 has a precise and sensitive 360° grip both on the jacket and the outer conductor of the cable. The grip exceeds the recommended pull strength by more than 50 % while avoiding potential damage to the cable. The powerful and precise grip is important for electrical performances such as transfer impedance, intermodulation and screening efficiency.

Watertight

When the body part is tightened, one O-ring in the back nut is activated against the jacket and another O-ring is activated between the body and the back nut. A third O-ring in the front end of the body ensures a watertight connection to the matching interface. This makes a watertight connection between all the connecting parts. The CX4 passes Cabelcon's demanding IPX 8 test: 30 meters of water/8 hours.

Protected to last

Moisture, dust and dirt are enemies to any connector. Therefore each connector is wrapped in airtight plastic to protect the sensitive mechanical and electrical performance all the way to the end user.

The CX4 is indeed a masterpiece. CX4 is user-friendly, secure and tested to perform with great stability for a long time under extreme climatic conditions.

Innovations

CX4 centre seizing system reduces the risk of InterModulation Distortion (CPD)

Every detail counts in the design of a superior connector. The right choice of metals and composites, the moulding process, the plating, the precise tolerances and accurate tools for correct cable stripping are some of many factors decisive for a successful connectorization. In order to secure the performance no design failures can be accepted.

And therefore all Cabelcon products are going through intensive tests with certified test equipment and with reliable and comparable data available for the customer.

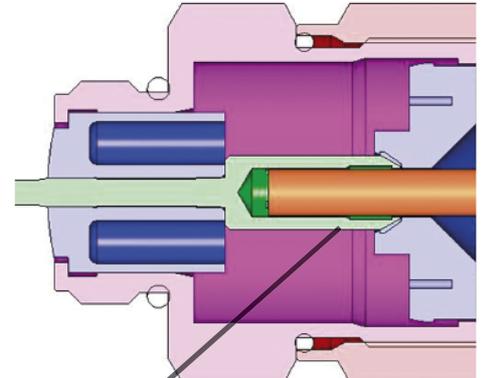
The success will show in the ease and security of installation and in stable performance throughout years of use with the lowest maintenance costs.

A Cabelcon example that illustrates this situation is the development of the CX4 centre seizing system.

Cabelcon's CX4 has a patent pending COC-insulator construction for optimised stability and performance of the insulator itself. Also the inner conductor is unique. The gripping part is a patent pending construction that improves the grip, while eliminating the risk of passive intermodulation.

The final result of this combination is a centre seizing system with stable performance even under harsh climatic conditions – tested to the extreme in Cabelcon's climatic chamber with rapid temperature cycles from -40° to +85° C.

And this is exactly a Corning Cabelcon ambition: To make connectors that perform with excellence under all climatic conditions throughout a long time of life.



The pat. pending gripping construction ensures an exceptional pull off strength, while the flat surface eliminates the risk of scratches on the cable conductor and therefore reduces the InterModulation Distortion IMD (CPD).

Announcement

Upcoming exhibitions

FDA 2004
Braedstrup, Denmark
19 - 20 November 2004

FRK 2004
Globana Trade Center
Leipzig, Germany
Seminar by Reimer Paulsen
9 November 2004

Cable & Satellite RUSSIA 2005
Moscow, Russia
Exhibition center Sokolniki
7 - 10 February 2005

**Global Entertainment & Media
Exhibition (Cabsat) 2005**
Dubai World Trade Center
Dubai International Exhibition Centre
8 -10 March 2005

Salon de la Reception Numerique
Paris, France
Palais des Congres de Paris
9 - 11 March 2005

ANGA Cable 2005
Deutsche Fachmesse für
Kabeltechnologie und Multimedia
Gelände der KölnMesse AG
Köln, Germany
31 May - 2 June 2005

In addition to these exhibitions, Cabelcon's products can be found on many other exhibitions around the world - represented by our local distributors and dealers.

Distributor: