

1st Quarter
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News

**M13/14 nuts and O-rings are now available for IEC male
compression connectors.**

Optional M13 and M14 sized nuts and
O-rings are now available for IEC male
compression connectors.

The nuts & O-rings can be used on
IECM-56-CX3 4.9 & IECM-56-CX3
5.1 connectors. The O-ring ensures a
waterproof connection (only male),
tested according to IPX8:
30 meters/8 hours.

The nut and O-ring kit has to be ordered
separately.

Description

M13 NUT + O-RING F. CX3+CRIMP

M14 NUT + O-RING F. CX3+CRIMP



Item number

99900569

99900570

Article

Corning Cabelcon sets stricter standards for power capacity in CATV connectors

Besides the many signals running in a CATV network, power supply for amplifiers can be added in order to save installation of separate power lines. As the network extends more amplifiers can be supplied from the same source. Consequently several amps are running through some parts of the network including the connectors.

Current creates heat in both connector and cable and an overheated connector can harm the insulator - and harm the cable. This is why Corning Cabelcon sets a very strict test for determining the power capacity of the connector.

The IEC publication 512-3 test 5a states that the maximum current should be put through the connector for five hours without exceeding the chosen temperature reference, which IEC suggests to be 20°C, 30°C or 40°C above ambient. Corning Cabelcon's reference is only 10° C above ambient.

What happens when the amp. rating rises?

Five measures have been made at 5A, 10A, 15A, 20A & 25A respectively (fig.2). Each temperature measurement in the connector is recorded after it has stabilized over time (after five hours). The curve is exponential, meaning that the first 5A do not harm as much as the next 5A and so on. This information is valuable when working with networks, where power capacity needs to be extended - or when working with connectors in places where temperatures are extreme (e.g. in sun heated street cabinets).

Corning Cabelcon goes beyond the IEC standard

In order to ensure a realistic maximum amp. rating to our customers, Corning Cabelcon is testing the connectors according to the IEC standard, However we only allow a temperature increase of 10° C above ambient. This stricter measurement gives a very

Fig. 1 Showing an example of increased inner conductor temperature of less than 10°C above ambient at 15 ampere, and stabilized over 5 hours.

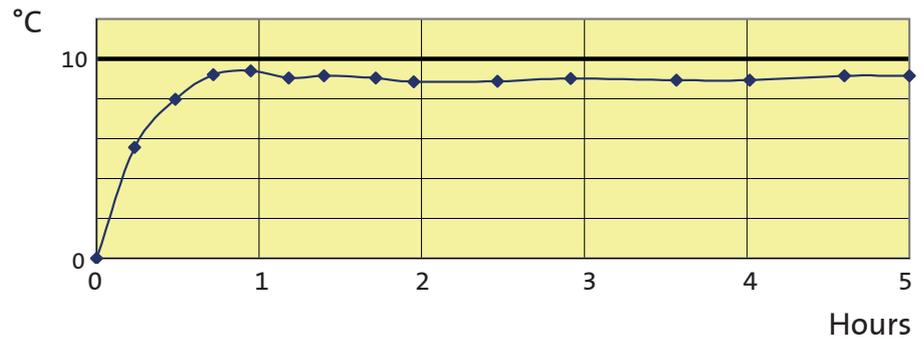
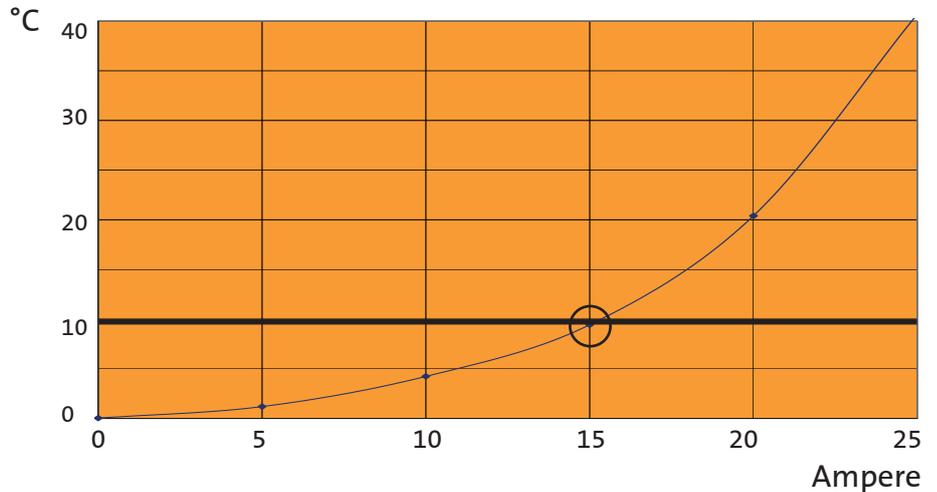


Fig. 2 Showing a typical curve for the stabilized inner conductor temperature at different currents. The fig. 1 situation is marked with a circle.



safe operational margin under all temperature conditions.

And contrary to other test methods we measure the temperature increase directly on the thinnest part of the inner conductor, as this is the most temperature sensitive part.

The amp. rating information on 10° C temperature rise is available on all Corning Cabelcon's data sheets. Extra information is always available on request!

Projects

Back to the creation of the universe with Cabelcon

CERN is the European Organization for Nuclear Research, the world's largest particle physics centre. Here physicists from all over the world come to explore what matter is made of and which forces hold it together.

The first particle accelerator was taken into use in 1957. The largest accelerator – called LEP, was ready in 1989. LEP is 27 km in radius and is placed 180 metres underground, crossing the French – Swiss border. The latest project is the LHC (Large Hadron Collider), being built and installed in the existing LEP tunnel. LHC will be ready for use in 2005.

These accelerators are being used to accelerate particles to almost the speed of light, and the particles are being kept in their track by means of heavy magnetic fields, until they with very high precision can be brought into collision. With these accelerators the scientists can make an experimental journey all the way back to the creation of the universe – 15 billion years

ago. Thus the scientists are trying to create a mini-scale model of the “Big Bang”. The particle physiology is also in use for practical applications such as medical science, medical treatment and microbiology.

Obviously such projects require a very high degree of precision and quality all the way through – not least in all materials and equipment used. We are proud to say, that Corning Cabelcon was selected by CERN to develop and supply carefully designed coaxial connectors for a uniquely developed coaxial cable. This is just another example of Cabelcons engagement in sophisticated projects, where know-how, precision and quality are essential keywords.



Computer-generated image of the LHC tunnel

Announcement

Upcoming exhibitions

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: