1st Quarter
2007

CONTENTS

Contact
cabelcon@cabelcon.dk

Product News

New colour-coded CX3 design

The new label bands can be used as checkmarks

We are pleased to inform you, that from the beginning of 2007 the existing CX3 design will be changed successively as the present designs are running out of stock. The new colour coded design replaces the "body print" design and makes it much easier to distinguish between the different sizes of connectors. The colour coded design will be implemented on the full CX3 range – F, E, IEC and BNC and on all sizes RG6, 7, 11 & 59.

The size numbering and functionality will remain the same. The colour labelling is placed 6.5 mm from the edge of the connector and can be used as checkmark for proper stripping lengths (see picture). The well-known CX3 high performance specifications and sizes remain unchanged.

The label colours will be the same as for the Corning Gilbert UltraEase™ colours, where sizes are equal.

(The complete colour table can be downloaded from our website).

Corning Cabelcon's mini size locking terminators

- now a widely used product

That is why we decided to promote the product in this issue. The LT-R75S is developed to fulfil the requirements for a high-specified locking terminator with very small mechanical dimensions. LT-R75S is designed for the termination of unused data F-ports on multimedia wall outlets and to protect against unauthorized access to the subscriber taps.

LT-R75S is only 2 cm long and can also be supplied with a thread (LT-R75ST) for »blind« installation of the disconnected drop cable.

The special designed locking tool is required for easy installation and removal of the terminators.

Technical specifications (typical)

- Termination resistance 75 Ohm
- Return loss @ 862 MHz > 32 dB
- Return loss @ 1 GHz > 31 dB
- Return loss @ 2 GHz > 23 dB

Mechanical dimensions

- Length 20 mm (26 mm/ F thread).
- Diameter 15 mm.

LTR-75S features:

- Patented system.
- Competitively priced
- Very short construction
- Unique, easy - install tool
- Silicone gasket to protect the subscriber taps from penetration of moisture
- Plastic caps to prevent for damage to the inner conductor during transportation.
- Double locking function:
  Locks the unused data port and prevent unauthorised removal of the front cover from wall outlets

Available versions:
LLT-R75S Short Locking Terminator
99901910
LT-R75ST Short Loc. Term. w/ F thread
99901915
Locking Tool
98030005

CABELCON connectors

Article

What is your IP3 value?

If you want to upgrade your network performance for additional digital and HDTV services, it would be a good idea to add the IP3 information to your decision criteria.

Shielding effectiveness, return- and insertion loss are obvious parameters to be aware of in a CATV network. However, nowadays modern networks are being built for Triple Play applications; CATV, IP telephony and Internet. PIM (passive intermodulation) now becomes an even more important and critical parameter.

Intermodulation specs can be presented in different ways - not always directly comparable. That is why Cabelcon uses the IP3 value. We wish to make it easy to compare our products to other products. The IP3 value gives you an universal comparable indication of the intermodulation stability of the product under test.

What is passive intermodulation?

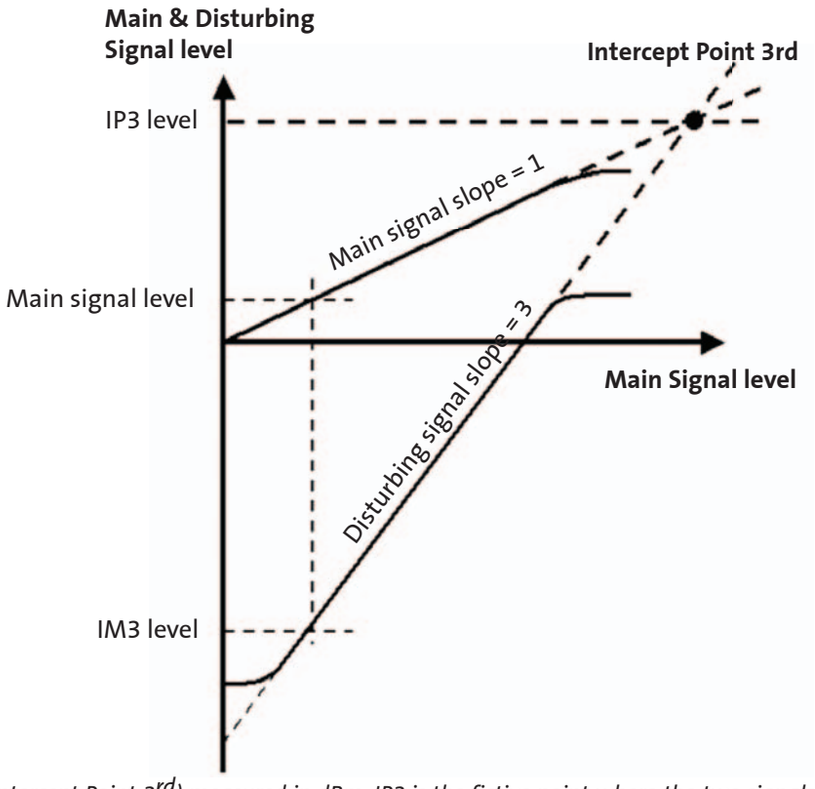
Intermodulation designates that two or more signals mix up and generate new unwanted signals at other frequencies. This phenomenon is used under controlled circumstances in receivers, mixers and converters etc.

Passive components like connectors and cables should in the theory be linear, which means that they do not change the signal form. Unfortunately they can be a little non-linear and hereby generate an unwanted intermodulation effect, called passive intermodulation.

What creates passive intermodulation?

More factors can cause non-linear paths and following intermodulation. Typical reasons are use of low quality products or poor or faulty installation. It is important that the connector is designed with a strong and permanent contact to the inner – and outer conductor and that creation of corrosion is prevented on the surfaces of the conducting parts.

The contact points must be designed to remain firmly in place over many years. For this reason Corning Cabelcon makes IMD testing before and after climatic chamber tests.



The IP3 (Intercept Point 3rd) measured in dBm. IP3 is the fictive point where the two signals meet, if one imagines that the main signal strengthens until the two signals come together as shown on the illustration.

Furthermore the conducting parts must be clean, free of flooding compound and grease, when installed on the cable. And not least - the connector must be properly installed according to manufactorer's instructions.

How to measure Intermodulation?

The **I**nter **M**odulation **D**istortion (IMD) or **C**ommon **P**ath **D**istortion (CPD) value describes the relation between the main signal and the unwanted disturbing signals. Cabelcon uses three ways to describe the IMD:

One describes the relationship between the two signals, measured in dBc, typically used for 75-Ohm connectors.

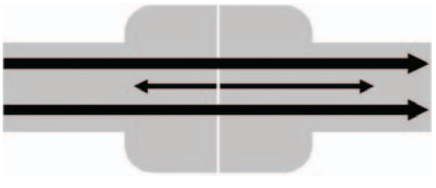
Another describes the size of the two signals, both measured in dBm, typical for 50-Ohm connectors.

A third way to describe the IMD value is the IP3 (Intercept Point 3rd) measured in dBm. IP3 is the fictive point where the two signals meet, if one imagines that the main signal strengthens until the two signals come together (see graph above).

IP3 is the most user friendly way to describe the relationship between the main signal and the disturbing signal as this value is immediately comparative to other manufacturers' IP3 values - if available - no matter the level of the main original signal.

If you want to learn more on IMD and IP3 values, please refer to our website www.cabelcon.dk under the link "technical-subjects" and then "technical terms".

It is important that connectors show strong and stable IMD readings to ensure long and stable operation under all conditions. No chain is stronger than the weakest link.



The IMD value describes the relation between the main signal and the unwanted disturbing signals

CABELCON connectors

Announcements

New RH-series of aluminium connectors

Corning Gilbert has introduced the new "RH-Series" of aluminium connectors – manufactured from a low-lead aluminium alloy. In general the technical specifications and high performance are unchanged from the time tested 6262 alloy versions.

The only visible difference is the colour and the type descriptions. The new clear trivalent chromium coating to protect the aluminium has a "silver" look - and "RH" is simply added to the descriptions in the new versions.

The new RH-versions will be supplied as old versions are out of stock.

New "silver" look of Corning Gilbert's RH-series

Upcoming exhibitions

Salon de la Reception Numerique
Paris
4 - 6 April 2007

CACC 2007
Prague
23 - 24 April 2007

Anga Cable 2007
Cologne - Germany
22 - 24 May 2007

FDA
Braedstrup - Denmark
November 2007

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.

Corning modernizes it's logo

Corning has modernized it's logo and layout.

Corning Cabelcon customers will already now notice these changes in the newsletter front cover. The flame in the old logo is removed, leaving the wordmark on its own as shown to the right.

CORNING

New Corning logo

Most of Cabelcon's letterheads, forms and documents will be modernized accordingly over time.

Corning Cabelcons own well-known product brand will not be influenced by this change.

Distributor:

CABELCON connectors

Corning Cabelcon ApS
Industriparken 10
DK-4760 Vordingborg
Denmark

T +45 55 98 55 99
F +45 55 98 55 04

cabelcon@cabelcon.dk
www.cabelcon.dk