

# NEWSLETTER



**CORNING**  
Discovering Beyond Imagination

Corning  
Cabelcon

1st Quarter  
2004



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## CONTENTS

### News

UltraEase™  
Compression Connector  
from Corning Gilbert

CX4  
Sizes and Designations

### Article

Redesign and Extension  
of the CoMeT Method  
for Test of Screening  
Efficiency and Transfer  
Impedance on Connectors

A co-operation between  
Dr. Lauri Halme,  
Helsinki Technical  
University and  
Corning Cabelcon A/S

### Announcement

Upcoming Exhibitions

## News

Corning Cabelcon A/S wishes all our readers a happy new year.

**The new UltraEase™ 59 & 6 Compression Connector from Corning Gilbert is soon available for order.**

The one-piece UltraEase™ compression connector features a "post forward" design. The design makes it easy visually to ensure that the cable dielectric is flush with the post face prior to compression. Due to this concept, UltraEase™ presents a very low activation force in a high performance compression connector.



*The UltraEase™ 6 compressed.*



*The UltraEase™ body is made of black UV resistant polymer and the post is made of C 36000 Brass Alloy.*

The UltraEase™ compression connector uses commonly available compression tools and standard trim dimensions. Each type has a different colored label for easy identification.

UltraEase™ meets all SCTE and Bellcore standards.

UltraEase™ can be supplied with the Gilbert Seal Ring (G-SR-1/2), item no 99900900, for water resistance, when installed on a standard "F" female port meeting.

UltraEase™ Types and Item Numbers:

Type	Item no.
GF-UE-59	99909302
GF-UE-59Q	99909304
GF-UE-6	99909306
GF-UE-6Q	99909308

### CX4 Sizes and Designations

Please be aware, that the improved range of connectors from our CX4-line may differ slightly in sizes from the previous hardline connectors.

The CX4-line is filled with new features and greatly improved technical specifications in order to fulfil the latest requirements for high performance in multimedia networks. The price to be paid for improved performance is more precise mechanical tolerances.

Even if the CX4 connectors cover most of the standard cables used today, there could be found examples where a certain type covers a smaller range of cables.

Therefore it is necessary to check the cable database in our Internet catalogue for the correct new type before ordering.

Alternatively you are most welcome to consult one of our sales departments.

*All new CX4-types are labelled with a "C" in front of the type number (e.g. 5/8M – C525).*



## Article

### Redesign and Extension of the Coupling Measuring Tube Method (CoMeT) for Test of Screening Efficiency and Transfer Impedance on Connectors.

Qualified tests of Corning Cabelcon connectors are vital for developments of still better connectors with optimal performance. The test equipment, the test methods and the test results must be under constant critical surveillance.

And most important - the test results must always be compared to the performance under real working conditions.

For the last one and a half years, our test engineers have been working with the CoMeT equipment for the measurement of screening efficiency and transfer impedance.

The CoMeT equipment was originally developed by Bedea in cooperation with D.Sc.EE Lauri Halme from the Helsinki University of Technology (please see biography on Dr. Halme next to this article).

The equipment was developed for the measurement of cable performances. Our test engineers have extended the equipment to make it work on connectors too. One of the challenges has been to make it work as close as possible to real working conditions. This means that all circumstances that might influence on the tests must be considered when the interpretation and the conclusions are made.

Apart from special calculations and theoretical discussions behind the project, the physical follow up has been impressive. New measuring tubes, angular tubes, adapters and various fittings are among the necessary changes and supplements to make the CoMeT method work on both cables and connectors.

*Theoretical discussions ....*



*The CoMeT set-up for measurements of screening efficiency and transfer impedance.*

To make sure that the knowledge and quality of the developing experiments are truthful Corning Cabelcon draws on the expertise of Dr. Lauri Halme.

Lauri Halme has followed the working methods and the interpretations and has advised the engineers along the process to ensure that the results were scientifically based and properly analysed and documented.

The method works excellent and the knowledge and experiences in interpreting the measuring results are elaborated and detailed. So the next aim for the engineers in cooperation with Dr. Halme is to make it physically and electrically possible to test big connectors up to 2 GHz.



*D.Sc.EE Lauri Halme, expert in screening measurements from the Helsinki University of Technology*

#### **Biography on Dr. Halme:**

Dr. Halme has been employed by Telecom Finland 1962 -1997. As R&D Director he has been responsible for standardization, research & development being active in IEC (Int. Electrotechnical Commission) and the establishment and development of ETSI (European Telecommunications Standards Institute) and EURESCOM (The Research body of European Telecommunication operators).

Since 1964 he has been Assistant and Specialist Lecturer on transmission lines and electromagnetic screening at the Helsinki University of Technology.

After leaving Telecom Finland in 1997, he continues as Lecturer and Specialist at the Communications Laboratory.



## Announcements

### Upcoming Exhibitions

CABSAT 2004  
The 10th Middle East International  
Cable, Satellite, Broadcast &  
Telecommunications Exhibition  
Dubai World Trade Centre  
Dubai International Exhibition Centre  
8 - 10 February, 2004

Cable & Satellite RUSSIA 2004  
Moscow, Russia  
Exhibition center Sokolniki  
10 - 13 February, 2004

Salon de la Reception Numerique  
Paris, France  
Palais des Congres de Paris  
10 - 12 March, 2004

ANGA Cable 2004  
Deutsche Fachmesse für  
Kabeltechnologie und Multimedia  
Cologne, Germany  
Gelände der KölnMesse AG  
11 - 13 May, 2004

Around the world...  
In addition to the above named  
exhibitions, Cabelcon's products can  
be found on many other exhibitions  
around the world - represented by our  
local sales personnel and distributors.

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