Corning
Cabelcon

Rev. Jan 09

Compression
Catalogue

CX3™
UltraEase™

General Information

Cabelcon introduced the CX3™ in 2001 - the first high quality compression connectors designed and manufactured in Europe. Our extensive range of CX3™ connectors are today being used by leading cable operators all over Europe and abroad.

Cabelcon's range of CX3™ and UltraEase™ compression connectors covers a wide variety of applications such as CATV, TriplePlay, SMATV, satellite, broadcast, security and telecommunications applications.
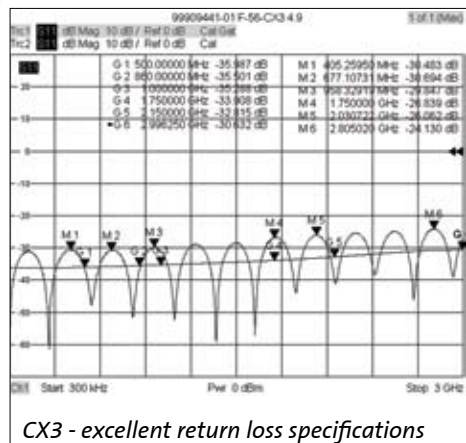
On the following pages you will find much more information and details on our compression connectors including some technical specifications.

Cabelcon is ISO certified.

Detailed datasheets can in most cases be downloaded from our website – or requested from Cabelcon's Customer Service department.

CX3 - excellent return loss specifications

The CX3™ and UltraEase™ is made to fulfil professional requirements with outstanding technical performance and easy installation.
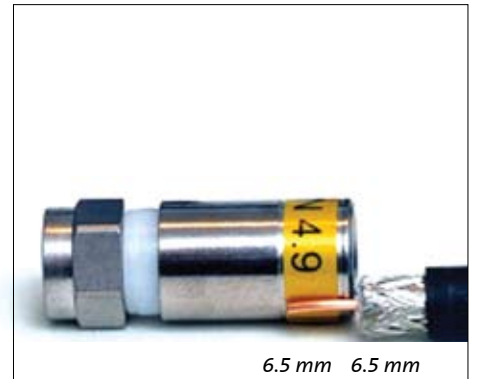
NiTin-6™

All Cabelcon's CX3™ connectors are plated with our unique NiTin-6™ plating for the finest protection against environmental impacts and corrosion.

You can find much more information on NiTin-6™ on our website at www.cabelcon.dk

Waterproof CX3 without additional protection

6.5 mm   6.5 mm

Automatical assembling and labelling

Coloured labels

Cabelcon's full range of CX3™ and UltraEase™ connectors are born with colour coded labels for easy and convenient determination of cable and connector sizes.

The labels can also be used as a guide for proper stripping lengths — which is 6.5 mm for both the inner- and outer conductors on all CX3™ and UltraEase™ connectors.
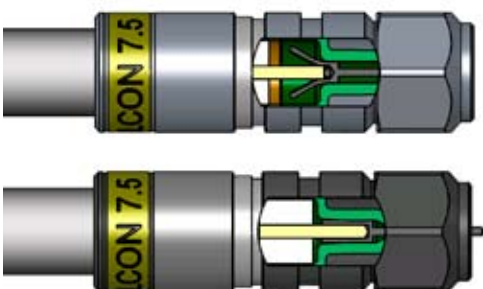
RoHS COMPLIANT

PushPin™

Cabelcon's patented PushPin™ system is the easy and secure way to a perfect connection. The PushPin™ system has three main functions:

- The pin is protected in the body during transportation (except CX3 5/8M) and is automatically pushed forward in place during installation of the cable - before compression.

- The PushPin™ system grips and locks the inner conductor.

- The PushPin™ eliminates blind entry when installing (visible indication of properly installed cable).

- Cabelcon PushPin™ technology is implemented in our full range of CX3™ RG7/11 connectors, CX3™ Mini's and in some of our RG6/59 types. Also our UltraEase™ BNC and RCA connectors are featuring our unique PushPin™ system.

CX3™ pocket compression tool

Position one:
The pin grips the inner conductor and makes sure that the cable is always inserted correctly in the connector

Position two:
The pin locks the inner conductor as the cable is inserted while the pin is pushed forward in place – indicating that the cable is correctly installed

The shown example is our CX3™ RG11 F-connector but the principle is the same for our other CX3™ and UltraEase™ types. See also the CX3™ Mini PushPin™ pictures on page 8.

**CX3™
RG59/6**

CX3™ Compression Connectors

Corning Cabelcon's wide range of CX3-RG59/6 compression connectors is developed for high performance digital multi-media applications and meets the standards of SCTE and IEC. All specifications are excellent – among the best available in the market.

All CX3™ types are plated with Cabelcon's unique Nitin-6™ plating to ensure excellent protection against environmental impacts.

Easy identification of cable series and cable sizes can be done on location through the colour labelling on the body. The label also serves as a stripping guide (see page 3). The stripping dimensions meet the standard preparation lengths 6.5/6.5 mm.
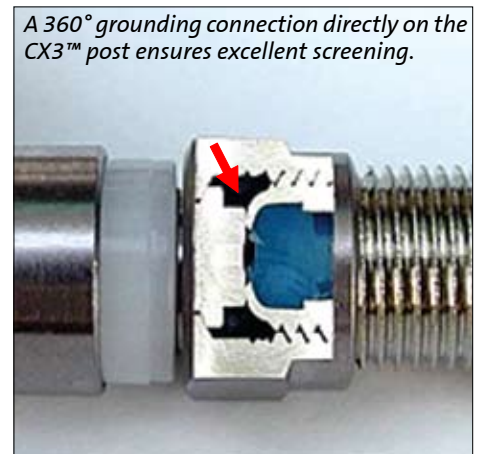

With and without a wide nut.

CX3™ F

The CX3™ F-connectors are available for all cable sizes and also in many special versions beside the standard type. The one-piece F-connector comes with a free spinning nut - hex 11mm - for easy and reliable installation.

The standard CX3™ F-connector can be used for all applications – indoor and outdoor - without any additional protection.

A 360° grounding connection directly on the CX3™ post ensures excellent screening.

CX3™ IEC

The IECM male connectors can be installed with optional M14 nut and an O-ring for a secure and watertight connection to active components. Available in male & female in more sizes for RG6 & 59 cables.

Optional nut and O-ring for CX3™ IEC Male

CX3™ BNCM

Corning Cabelcon BNC male connectors are developed for use in RF, broadcast, video, security and digital multimedia applications. All the well-known weaknesses with ordinary BNC connectors such as time consuming installation, many loose parts to assemble, poor pull-off strength and poor return loss (VSWR) have been eliminated with the Cabelcon CX3™ BNC!

CX3 FM connectors with PushPin™ system

CX3™ Special versions

Short versions are available for easy installation on hard PE cables. Other versions can be supplied without O-rings for indoor and head-end applications. Also versions are available with wide nuts and PushPin™ system for safe and reliable installation. Push-on versions can be supplied for use where quick connection/ disconnection is required.

CX3™ PushPin™

CX3™ one-piece compression connector featuring Cabelcon's unique PushPin™ system. The pin is integrated and protected in the body and moves forward in place as the cable is inserted to indicate proper installation before compression.

CX3™ Push-on connectors for RG6 cables

CX3™ short versions

Technical Data (typical) F-56-CX3 4.9

Operational to 3 GHz
Impedance	75 Ohm
Shielding Eff. 30-862 MHz	100 dB*
Return loss@1000 MHz	38 dB*
Return loss@3000 MHz	24 dB*
IMD (3rd order@2x100mW)	-120 dBc*
IMD (IP3 value)	+80 dBm*
AMP rating	Cable data
Max. Tensile strength (overall)	120 N
Sealing test (IPX8 30 m/8 hours)	Passed

* Depending on the used cable

Detailed datasheets for all types and sizes are available on request

CX3™ IEC versions

CX3™ RG59/6

... continued

CX3 compressed - view inside

Waterproof CX3™

CX3™ is 100 % waterproof – no additional protection is needed. All types with O-ring in the front part secure a watertight connection according to IPX8*

CX3™ is Nitin-6™ plated for excellent corrosion resistance. And the performance is excellent.
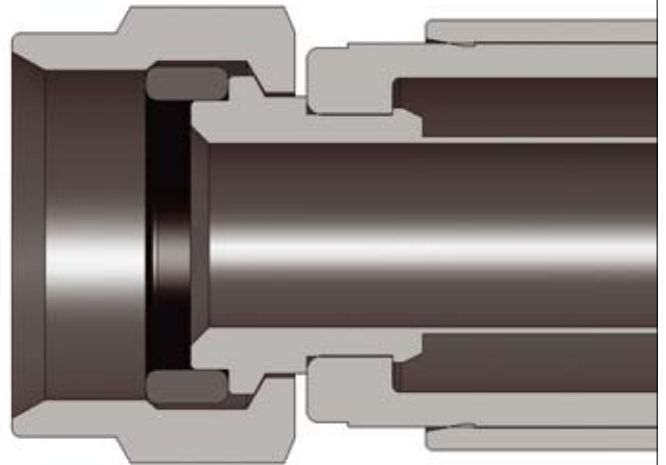
*(30 m water / 8 hours).

Order information

1	F-59-CX3 3.7	99909416-01
1	F-59-CX3 3.9	99909421-01
1	F-59-CX3 3.9 HEC	99909435-01
1	F-56-CX3 4.9	99909441-01
1	F-56-CX3 5.1	99909446-01
1	F-56-CX3 5.3	99909450-01
1	F-56-CX3 5.7	99909460-01
1	F-59-CX3 B 3.7	99939416-01
1	F-59-CX3 B 3.9	99939421-01
1	F-56-CX3 B 4.9	99939441-01
1	F-56-CX3 B 5.1	99939445-01
1	F-56-CX3 B 5.3	99939450-01
2	F-56-CX3 5.1 SHORT	99939445-01
2	F-56-CX3 B 5.1 SHORT	99909446-01
2	F-56-CX3 H 4.9 SHORT	99949442
1	F-56-CX3 5.1 Wide interface	99909468
1	F-5C-CX3 5.7	99909467-01
4	F-Push-on 56-CX3 4.9 Short	99909512
4	F-Push-on 56-CX3 5.1 Short	99909513
4	F-Push-on 59-CX3 3.9 Short	99909514
3	FM-56-CX3 4.9 Wide interface	99909517
3	FM-56-CX3 5.1 Wide interface	99909519
9	E-56-CX3 4.9	99909540-01
9	E-56-CX3 5.1	99909545-01
5	BNCM-59-CX3 3.7	99909472-01
5	BNCM-59-CX3 3.9	99909473-01
5	BNCM-59-CX3 3.9 HEC	99909474-01
5	BNCM-56-CX3 4.9	99909475-01
5	BNCM-56-CX3 5.1	99909476-01
6	IECM-59-CX3 3.9	99909482-01
6	IECM-56-CX3 4.9	99909484-02
6	IECM-56-CX3 5.1	99909486-02
6	IECF-59-CX3 3.9	99909492-01
6	IECF-56-CX3 4.9	99909494-01
6	IECF-56-CX3 5.1	99909496-01
	M14 nut and O-ring for IECM	99900570-01
	M13 nut and O-ring for CX3	99900569

Corning Cabelcon CX3™ compression has a specially designed O-ring in the front to secure a watertight connection.

Corning Cabelcon CX3™ compression is also the professional solution for satellite dish installations.

CX3™ N/50 Ohm

CX3™ for RG8 & RG58

The two new Cabelcon CX3™ N/50 Ohm compression connectors for RG8 and RG58 cables are unique high performance connectors developed for replacement of the old "time-consuming to-install" N-connectors.

Installation is easy, simple and more precise than ever before.

CX3™ N/50 compression features

- Unique patented PushPin™ system •
- Easy and safe installation in seconds •
- Fits most RG8 (RG58) types* of cables •
- One-piece connectors – no loose parts •
- Replaces old "difficult-to-install" connectors •
- Waterproof without any additional protection •
- Professional quality and excellent performance •
- Simple instructions – can be installed by anyone •

with solid inner conductors. Stranded inner conductors to be soldered before installation.

Technical Data (typical) NM/50-RG8-CX3 7.5

Operational to 5 GHz	
Impedance	50 Ohm
Shielding Eff. 50-1000 MHz	100 dB*
Return loss 50-1000 MHz	33 dB*
Return loss @ 900 MHz	40 dB*
Return loss @ 1800 MHz	40 dB*
IMD (3rd order@2x1W)	-114 dBc*
IMD (IP3 value)	+86 dBm*
AMP rating	7.5 A
Max. Tensile strength (overall)	800 N
Sealing test (IPX8 30 m/8 hours)	Passed

Technical Data (typical) NM/50-RG58-CX3 3.1

Operational to 6 GHz	
Impedance	50 Ohm
Shielding Eff. 50-1000 MHz	105 dB*
Return loss 50-1000 MHz	41 dB*
Return loss @ 900 MHz	42 dB*
Return loss @ 1800 MHz	35 dB*
Return loss @ 2450 MHz	31 dB*
IMD (3rd order@2x100 mW)	-120 dBc*
IMD (IP3 value)	+80 dBm*
AMP rating	9 A
Max. Tensile strength (overall)	300 N
Sealing test (IPX8 30 m/8 hours)	Passed

* Depending on the used cable

Detailed datasheets are available on request

NM/50-RG8-CX3

NM/50-RG58-CX3

Order information

16	NM/50-RG8-CX3 7.5	99760833
17	NM/50-RG213-CX3 7.5	99760834
17	NM/50-RG58-CX3 3.1	99760100

CX3™ MINI

Cabelcon CX3™ Mini is the perfect choice for HDTV, Digital Video, Broadcast & Security applications

The unique compression system (patent pending) makes the installation easier than ever before.

The well-known installation difficulties with most other brands of mini crimp- and compression connectors have now been eliminated as the cable slides very smoothly into the one piece connector without damaging the cable.
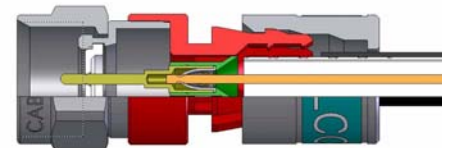
The CX3™ mini's are available with BNCM, IECM and FM interfaces. All parts are NiTin-6™ plated – including the inner conductors to ensure long-time resistant and reliable contacts.
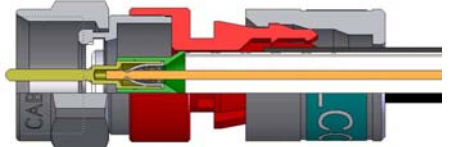

Cable partly inserted - not compressed

Cable fully inserted - not compressed

Cable fully inserted and compressed
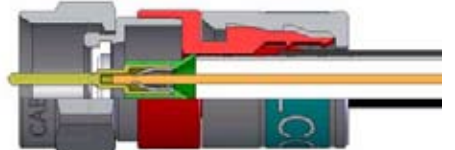
Unique PushPin™ System

Cabelcon's PushPin™ System ensures perfect installation result every time. The pin is pushed forward in proper position as the cable is inserted, while it grips and locks the inner conductor when proper pin positions have been reached.

IECM-60-CX3 Mini 4.5

CX3 pocket tool for CX3 Mini 4.5

FM-60-CX3 Mini 4.5

BNCM-60-CX3 Mini 4.5

Please find the latest information on www.cabelcon.dk

CX3™ MINI compression features

- Easy and safe installation in seconds
- Covers a fairly large range of MINI cable sizes
- PushPin™ System – for safe and visible installation
- Nitin-6™ plated for excellent corrosion resistance
- Unique compression system (pat. pending)
- One-piece connectors – no loose parts
- Operational to 3 GHz

Mini size markings

The size marking for Cabelcon mini connectors such as M 4.5 indicates that this connector covers most mini cables with a jacket diameter close to 4.5 mm.

Safe connections with PushPin™

Cabelcon's unique 0.9 mm F-Push-Pin™ makes a proper and safe connection to female ports – sensitive to thin inner conductors.

PushPin™ - before and after compression

M4.5 FT version

M4.5 is also available as FT (feed through) type without the Push-Pin™ system. The FT version is equipped with two special designed O-rings to make M4.5 FT completely waterproof.

FM - RG179-CX3 Mini 3.1

F 60-CX3 Mini 4.5 - before and after compression

Technical Data (typical) FM-60-CX3 Mini

Operational to 3 GHz	
Impedance	75 Ohm
Shielding Eff. 30-862 MHz	100 dB*
Return loss@1000 MHz (typ)	36 dB*
Return loss@3000 MHz (typ)	32 dB*
IMD (3rd order@2x100mW)	-120 dBc*
IMD (IP3 value)	+80 dBm*
AMP rating	5 A
Max. Tensile strength (overall)	120 N

 * Depending on the used cable

Order information

7	F 60-CX3 Mini 4.5	99909405
7	FM-RG179-CX3 Mini 3.1	99909402-01
7	FM-60-CX3 Mini 4.5	99909404-01
7	IECM-60-CX3 Mini 4.5	99909487-01
8	BNCM-RG179-CX3 Mini 3.1	99909462-01
8	BNCM-60-CX3 Mini 4.5	99909464-01

Please checkout www.cabelcon.dk for the latest information about types and item numbers

CX3™ for RG7/11 cables

3.5/12F-RG11-CX3 7.5

Corning Cabelcon's wide range of CX3-RG7/11 compression connectors are developed for high performance digital multimedia applications and meet the standards of SCTE and IEC. All specifications are excellent — among the best available in the market.

Type 220

PushPin™ System
For safe indication of proper cable installation before compression takes place

3.5/12M-RG11-CX3 7.5

CX3™ replaces hardline RG11 connectors

CX3™ RG11 compression features

- PushPin™ System
- Waterproof design
- Easy & safe installation
- Excellent specifications
- Replaces hardline RG11 connectors
- Available in FM, 3.5/15M&F, 5/8MU, IEC14M & BNC

The CX3™ RG7/11 connectors features Cabelcon's unique patented PushPin™ (movable pin) system. The pin is protected in the body during transportation (except 5/8M) and is automatically pushed forward in place during installation of the cable before compression takes place.

This is an easy way to ensure a perfect connection (read more about PushPin™ on page 3 & 8).

Cabelcon CX3™ has passed our "Arctic" test to perform perfect down to -60° C.

5/8MU-RG11-CX3 7.5

5/8MU-RG11-CX3 7.5

All RG7/11 connectors come with a free spinning nut for easy installation:

- Coloured labels to indicate size and serve also as a guide for proper stripping dimensions (6.5/6.5 mm)

- No need for additional sealing. O-rings in the front part secure a watertight connection according to IPX8 (BNC excluded)

- Wide range of tools available for easy and secure installation

Technical Data (typical) FM-RG11-CX3

Operational to 3 GHz
Impedance	75 Ohm
Shielding Eff. 30-862 MHz	100 dB*
Return loss@1000 MHz	36 dB*
Return loss@3000 MHz	28 dB*
IMD (3rd order@2x100mW)	-135 dBc*
IMD (IP3 value)	+92 dBm*
AMP rating	7.5 A
Max. Tensile strength (overall)	200 N
Sealing test (IPX8 30 m/8 hours)	Passed

* Depending on the used cable

Detailed datasheets are available on request

Order information

10	FM-RG7-CX3 6.0	99909500-01
10	FM-RG11-CX3 7.5	99909510-01
10	FM-RG11Q-CX3 7.5	99909515-01
11	3.5/12M-RG11-CX3 7.5	99909520-01
12	3.5/12F-RG11-CX3 7.5	99909530
13	5/8MU-RG11-CX3 7.5	99909525
13	5/8MU-RG11Q-CX3 7.5	99909527
14	IEC14M-RG11-CX3 7.5	99909535
15	BNCM-RG11Q CX3 7.5	99909536
	CX3 Type 220	
*10	FM-220-CX3	99909511
*11	3.5/12M-220-CX3	99909521
*13	5/8MU-220-CX3	99909526

* Coring/strip tool 220 STI, item no.98120102 is required for type 220 cable preparation

UltraEase™ for RG59/6 & Mini

UltraEase™ BNC with PushPin™ System

UltraEase™ is the next generation in high performance "F" connectors.

This series of compression connectors combines ease of installation with superior performance.

The UltraEase™ 59 & 6 connector design incorporates a patented free spinning nut making installation faster and more reliable. Patented grooved nut design provides improved grip and ease of installation in tight locations.

UltraEase™ compression technology provides 360 degrees of contact to the cable, providing excellent RF shielding integrity and a complete seal to the cable jacket that locks out moisture.

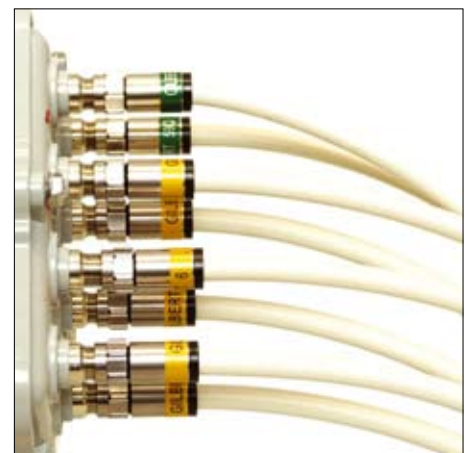*UltraEase™ RCA connectors with PushPin™ System*

UltraEase™ features
- Screening Class A (F)
- Free spinning nuts
- Operational to 3 GHz
- Very easy installation in seconds
- Lowest activation force available
- Covers a large range of cable sizes
- One-piece design – no loose parts
- F-male, BNCmale & RCA male available
- Coloured labels with size marking
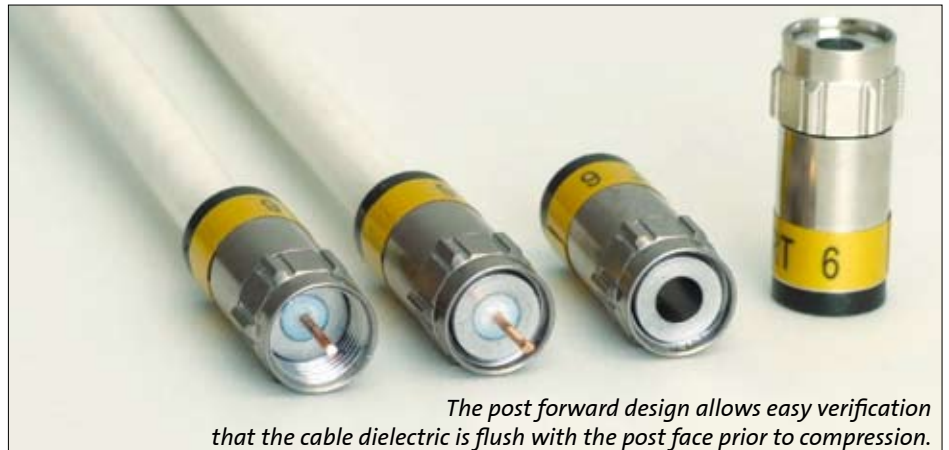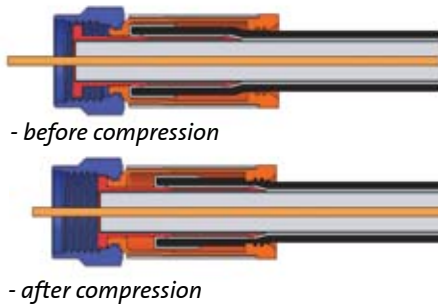- 360 degrees contact to the cable

UltraEase™ M & MQ with PushPin™ System

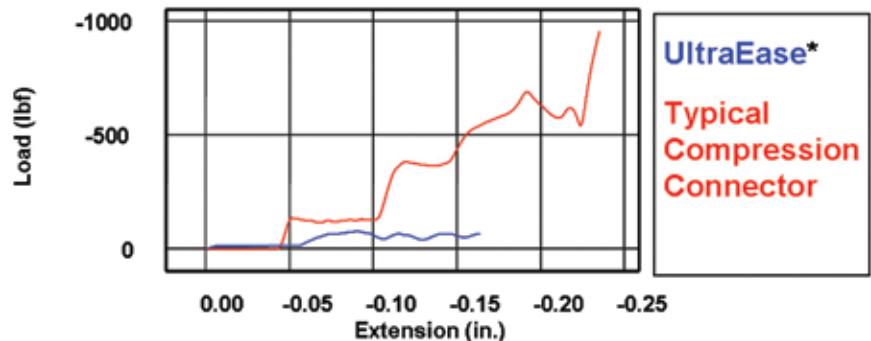*Finger-friendly patended nut design*

Post forward design

- before compression

- after compression

The post forward design allows easy verification that the cable dielectric is flush with the post face prior to compression.

Easy and safe installation

After compression the connector post has a conventional recessed position. This is another feature that helps the technician to install the connector correctly every time.

This significantly unique concept presents the lowest activation force available in a high performance compression connector.

Ordering information

18	GAF-UE-M	99909300
18	GAF-UE-MQ	99909301
18	GF-UE-59-03 Nitin	99909382
18	GF-UE-59Q-03	99909304-01
18	GAF-UE-59-HEC	99909305
18	GF-UE-6-03 Nitin	99909386
18	GF-UE-6 (5.1)	99909307
18	GF-UE-6Q-03	99909308-01
20	GA-RCA-UE-M	99909310
20	GA-RCA-UE-MQ	99909311
20	GA-RCA-UE-59	99909312
20	GA-RCA-UE-59Q	99909314
20	GA-RCA-UE-6	99909316
20	GA-RCA-UE-6Q	99909318
18	GF-UR-59	99909319
18	GF-UR-6	99909321
18	GF-UR-6 w. Interface O-ring	
		99909322
18	GF-UR-59-SR	99909345
18	GF-UR-6-SR	99909348
19	GA-BNC-UE-M	99909350
19	GA-BNC-UE-MQ	99909351
19	GA-BNC-UE-59	99909352
19	GA-BNC-UE-59Q	99909354
19	GA-BNC-UE-59-HEC	99909355
19	GA-BNC-UE-6	99909356
19	GA-BNC-UE-6Q	99909358

Technical Data (typical) GF-UE 6

Operational to 3 GHz

Impedance	75 Ohm
Shielding Eff. 30-862 MHz	125 dB*
Return loss@1000 MHz (typ)	36 dB*
Return loss@3000 MHz (typ)	24 dB*
IMD (3rd order@2x100mW)	-150dBc*
IMD (IP3 value)	+94 dBm*
AMP rating	cable data
Max. Tensile strength (overall)	200 N

*Depending on the used cable

Detailed datasheets are available on request

This tool is intended for home-installations (not recommended for professional use)

How to find the right tools

1. Find the reference number in the order information boxes on the previous pages

2. Choose the corresponding reference number in the tools matrix and select the matching tools

Picture number	1	2	3	4	5	6	7	8	9	10	11
Tools Matrix — Reference number / Select your connector below	Cable cutter drop RG 59/6/11 CC for copper cladded steel 98028619	Cable cutter drop RG59/6/7/11 98028621-01	Rotary cable stripper LDT Mini 98500995	Rotary Cable stripper EUR LDT 98501004	Rotary cable stripper RG 6/59 98501010	Rotary cable stripper RG11 98501102	CAT-AS-IEC/RCA-FX 98029049	G-CAT Multimedia tool 98029064	Pocket Installer RG6/59 98501040	CX3 pocket tool 59/6 98029070	CX3 pocket tool 59/6 BNC 98029074
1 CX3 F-series RG 59/6 (ex. SHORT)	•	•		•	•		•	•	•	•	
2 CX3 F-series all Short versions	•	•		•	•				•		
3 CX3 FM-series RG 59/6 (with pin)	•	•		•	•				•		•
4 CX3 F Push-on Short RG 59/6	•	•		•	•				•		
5 CX3 BNCM series RG 59/6	•	•		•	•				•		•
6 CX3 IECM/IECF series RG 59/6	•	•		•	•				•	•	
7 CX3 Mini Series F & IEC	•	•	•			•				•	
8 CX3 Mini Series BNC	•	•	•			•					•
9 CX3 E-series RG 59/6	•	•		•	•				•		
10 CX3 FM-series RG 7/11 6.0/7.5	•	•				•			•		
11 CX3 3.5/12M RG11 7.5	•	•				•					
12 CX3 3.5/12F RG11 7.5	•	•				•					
13 CX3 5/8MU RG11 7.5	•	•				•					
14 CX3 IEC14M RG11 7.5	•	•				•					
15 CX3 BNCM RG11 7.5	•	•				•					
16 CX3 NM/50 - RG8 (50 Ohm)	•	•				•					
17 CX3 NM/50 – RG 58 (50 Ohm)	•	•			•						
18 UltraEase/UltraRange F-series	•	•		•	•			•	•	•	•
19 UltraEase BNC-series	•	•		•	•				•	•	
20 UltraEase RCA-series	•	•		•	•			•	•	•	
21 UltraRange F-series	•	•		•	•			•	•	•	

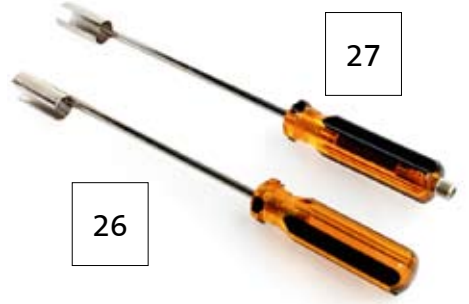|	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
	Compression tool RG 6/59, mini universal 98029071	Compression tool RG11 Universal 98029073	Compression tool CX3 all size 98029072-01	Multimedia Compression Tool 98029075	Mounting tool for BNCM connectors 98028782	Mounting tool for 3.5/12F 98028783	Mounting tool for IEC 14mm 98028784	Mounting tool for 3.5/12M 98028787-01	Mounting tool for NM 98028788	Mounting tool for UltraEase GF-UE (F series) 98028804	Mounting tool for F connectors 98028805-01	Torque wrench AH HEX 11mm 4.5 Nm 98029080-01	Torque wrench 14 mm 4.5 Nm 98029095	Torque wrench 22 mm 3.5/12M 9 Nm 98029110	Installation tool HT-2206 for BNC 98028796	Installation tool HT-2206F for F 98028798	Rubber tool for cable support 98028785	Tool for security shield ø 20 mm 98028794

CABELCON
connectors

Changes, errors and omissions

Corning Cabelcon strives to provide the most complete and accurate information on all products and services. However our product program is under continuous development.

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Please contact our service department or checkout our website for the latest information.

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