

Article

CX3 RG11 and RG7 - intelligent and powerful compression connectors

The UV resistant POM is specially designed to complete the compression process with both the strength and the flexibility that is needed to form a strong and tight connection.

The CX3 RG11 and RG7 compression connectors have a compression principle that brings about the best features of the connectors in a safe and easy system. It ensures high installation security, an excellent mechanical and electrical performance - and a watertight connection. This is illustrated in this article:

The moveable pin

The CX3 RG11/7 feature a moveable pin. The pin is protected in the body during transportation; a simple and strong protection that leaves the pin perfectly centred.

A visual indication

The moveable pin visually indicates, when the cable is placed correctly in the connector, as the pin is pushed forward in place by the cable. The conical opening on the back part of the pin ensures that the inner conductor of the cable is always correctly centred in the connector. The grip on the inner conductor obtained hereby alone, provides a pull strength up to 8 kg.

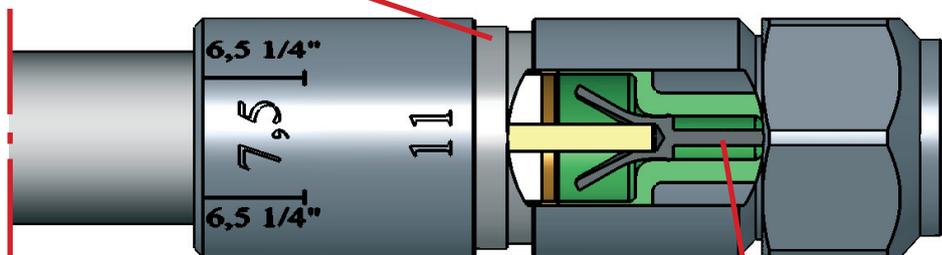
A sensitive compression

When the compression ring is pushed forward over the plastic part of the body, the plastic body seals 360° around the cable. Thanks to the properties of the strong yet flexible UV resistant POM composite the plastic part provides a 360° contact to the inner conductor.

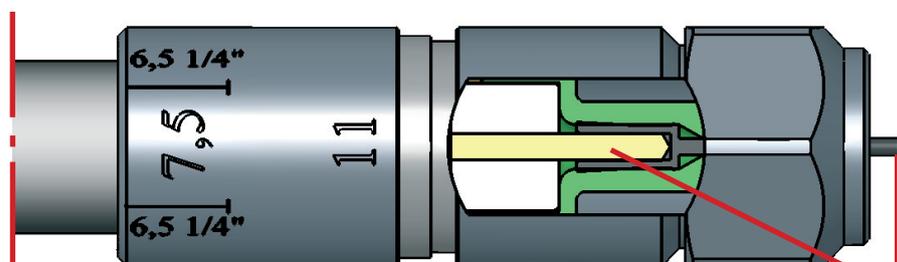
The flexibility also means that the connector accepts cables with varying dimensions while ensuring a watertight connection from the cable end.

Also the pull strength is high - a guarantee for a strong connection whatever the climatic changes.

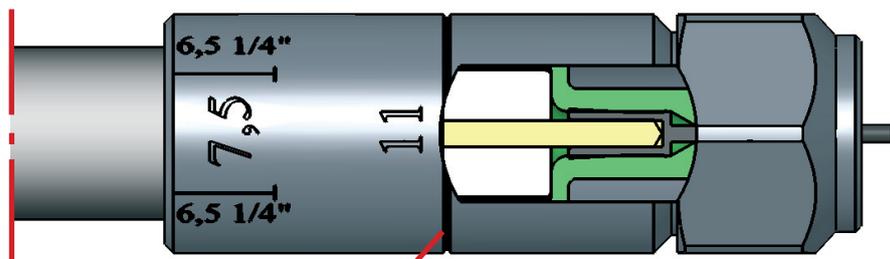
The smooth contact between the



1. The pin is protected inside the body until the cable is inserted



2. When the cable is inserted, the pin is pushed into position by the inner conductor



3. And then the connector is compressed

conducting parts obtained by this construction makes the transfer impedance low – less than 0.2 mOhm/connector within the return path band (5 – 30 MHz). This is important for the screening efficiency for connectors used in return path applications.

Free spinning nut with O-ring

The free spinning nut ensures easy tightening where space is limited and also rotations on the cable are avoided. When the nut is tightened the EPDM

O-ring between the nut and the front part of the connector prevents water immersion from the front side. Thus the connection is completely watertight without any additional sealing.

The CX3 RG11/7 are indeed examples of a well coordinated development where form and function compliment each other in an intelligent and powerful connector, that is able to stand up to extreme climatic changes for ages.