RADIATING CABLES

Installation Guide

Edition 1



cable



SAFETY ON SITE

- Cordoning - off the working area

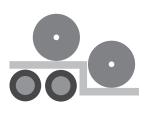
- Warning Signs
- Warning Cones
- Warning Lights
- Warning Tape

- Keeping the access and emergency routes clear of

- Materials
- Tolls
- Vehicles

- Fire precautions

- Easily inflamable materials should be ...
- kept to a minimum
- disposed of immediately if not necessary any longer
- brought into the tunnel only in the amount required



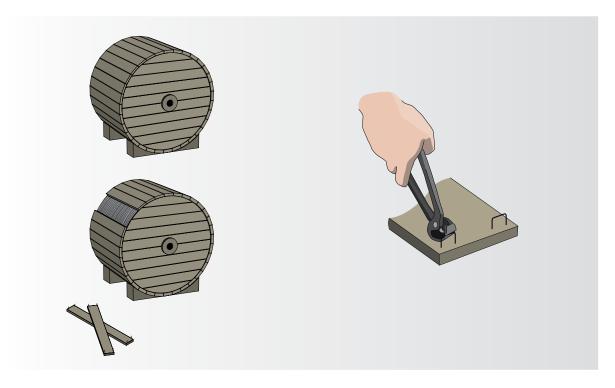






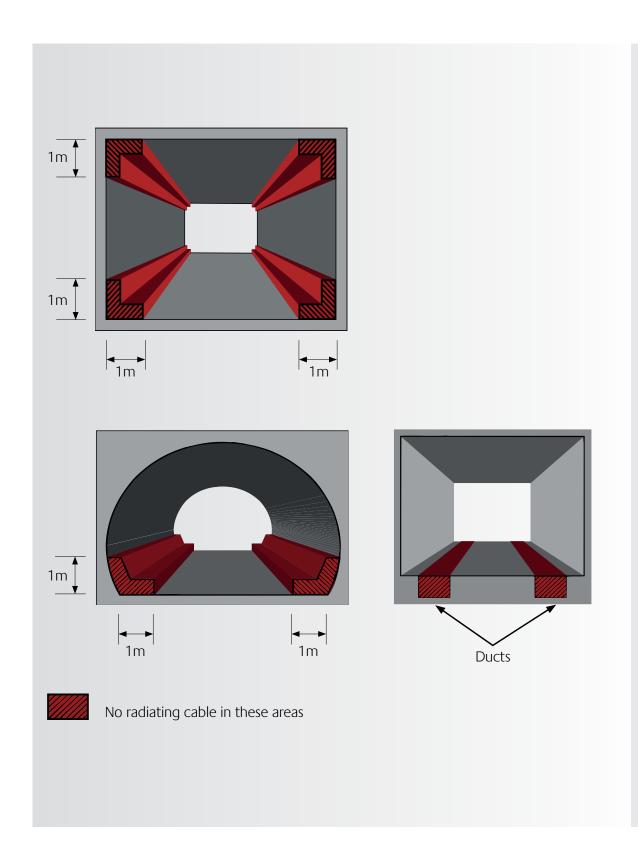






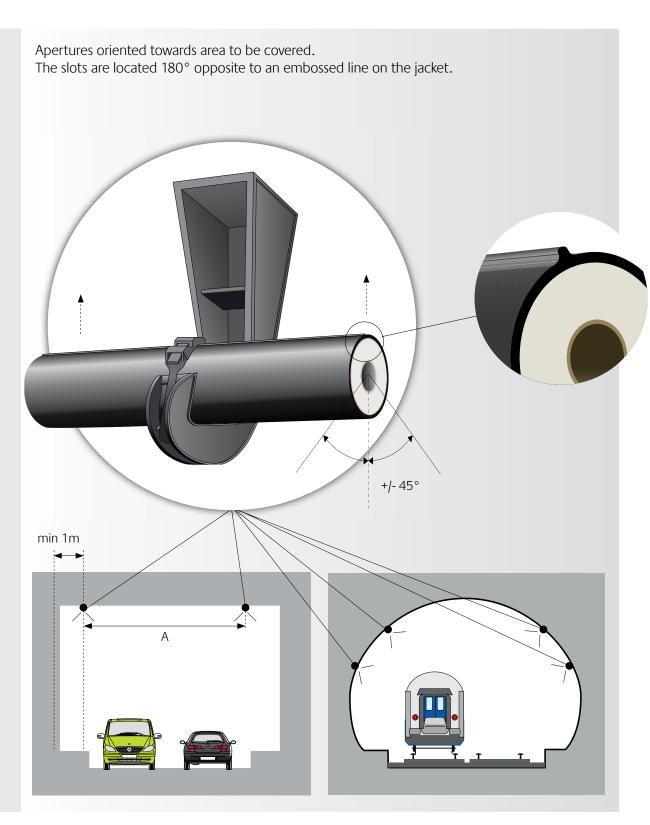


RADIATING CABLE POSITIONING IN TUNNELS





ORIENTATION OF SLOTS FOR RMC CABLES



A= Recommended zone for RMCcable



ORIENTATION OF SLOTS FOR RMC CABLES

The slots are located 180° opposite to an embossed line on the jacket.

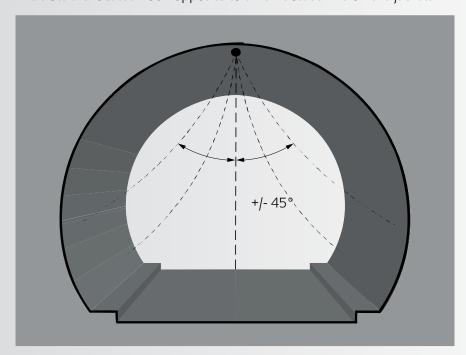
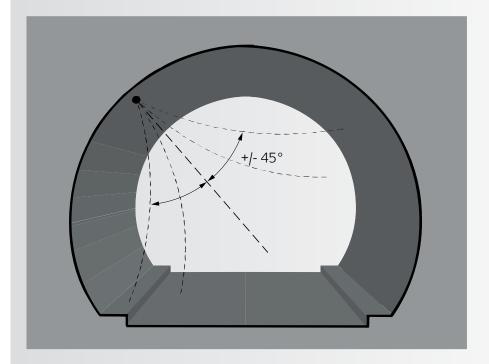


Figure 1: Electric field lines with the RC hung in the centre of the ceiling



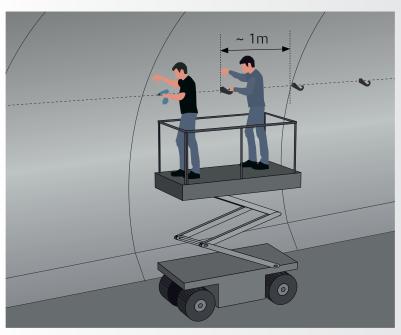
For LSC-and CMC-cables a cable orientation is not needed.

Figure 2: Electric field lines with the RC hung at one side

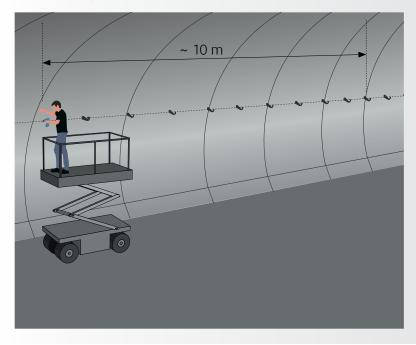


DRILLING AND CLAMPING

Every 1 meter, the recommended hangers can be clic clamps or hook hangers without fire resistant belt.



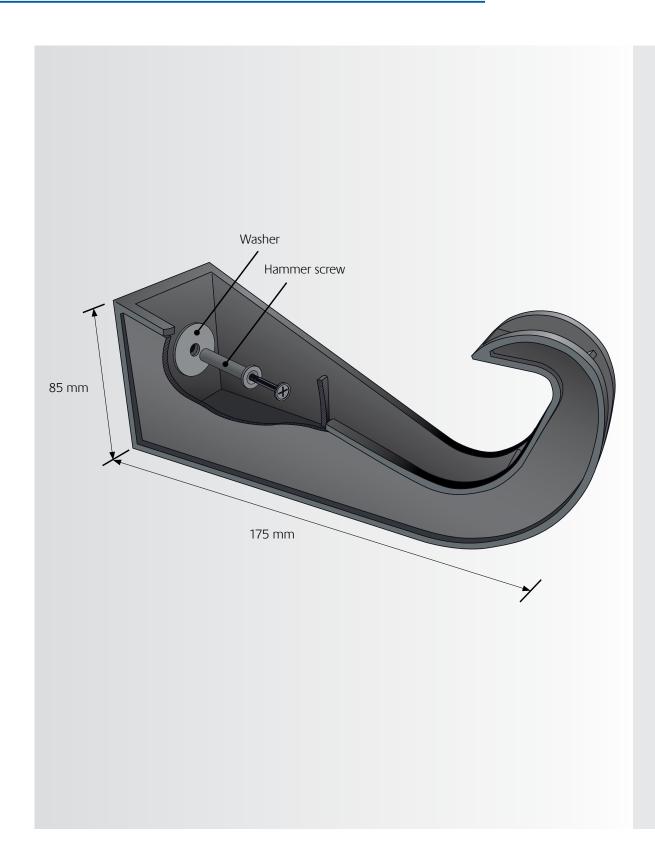
Every 10 meters, the recommended hangers should be of fire resistant type. They can be hook hangers with metal anchor and fire resistant belt, or clip hangers, or steel clamps.





INSTALLATION MATERIAL

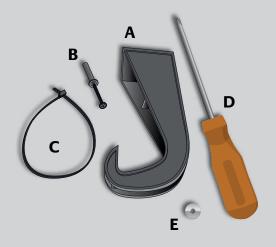
Eupen hook hanger for radiating cable installation





Installation instruction for hanger with hammer screw

(recommended every 1 meter)



- **A** hangers for radiating coaxial cable
- **B** hammer screw
- **C** cable fastener band
- **D** adapted tool for hammer screw
- **E** metal washer

Hangers for radiating coaxial cable from 1/2" to 1-5/8", consisting of glass fiber strengthened "Durethan":

- halogen free, according to DIN VDE 0472 part 815;
- fire retardant according to UL 94 class V-O;
- UV-resistant.

Drill a hole of 6 mm diameter and minimum 60 mm depth into a solid ground.



2

Using an adapted tool, strike the hammer screw through the washer and the hanger into the 6 mm drilling hole.



3

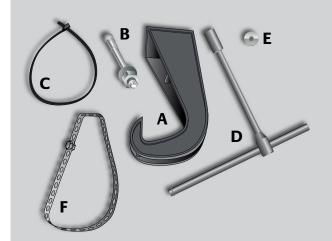
Hook the cable and fix it with cable fastener band.





Installation instruction for hanger with metal anchor and fire resistant belt

(recommended every 10 meters)



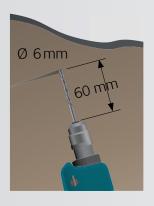
- A hangers for radiating coaxial cable
- **B** Metallic stud anchor M6 + small washer
- **C** cable fastener band
- **D** adapted tool for metal anchor
- **E** Large metal washer
- F FRSB (Fire Resistant Safety Belt)

Hangers for radiating coaxial cable from 1/2" to 1-5/8", consisting of glass fiber strengthened "Durethan":

- halogen free, according to DIN VDE 0472 part 815;
- fire retardant according to UL 94 class V-O;
- UV-resistant.

1

Drill a hole of 6 mm diameter and minimum 60 mm depth into a solid ground.



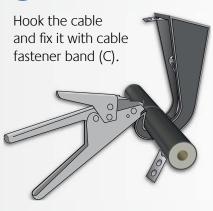
3

anchor with an adapted tool through the large washer (E) through the belt (F), and through the hanger (A)

Drive a full metal



5



2

Insert the fire resistant band (F) through the bottom of the hanger.



4

Tighten the fixing nut with appropriate tool (D).



6

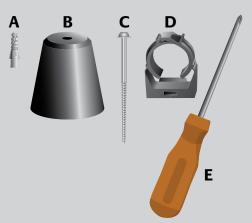
Close fire resistant band (F) around cable by tightening the nut and bolt.



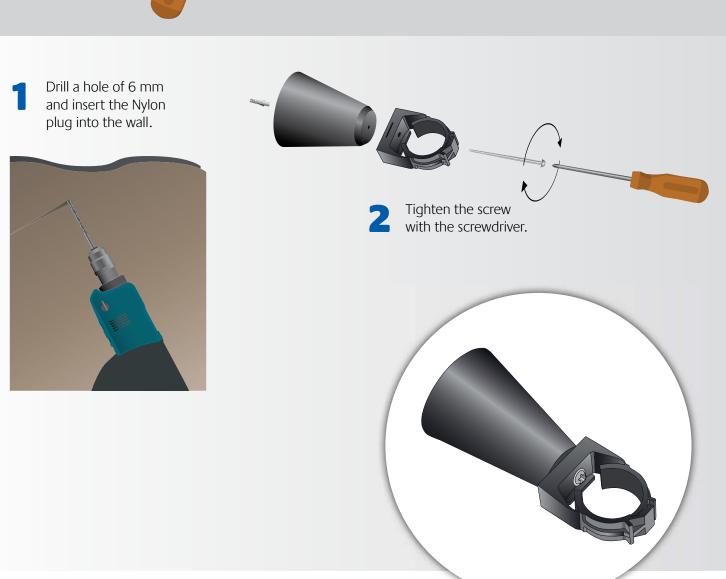


Installation instruction for clic clamp with Nylon plug and round base spacer

(recommended every 1 meter)



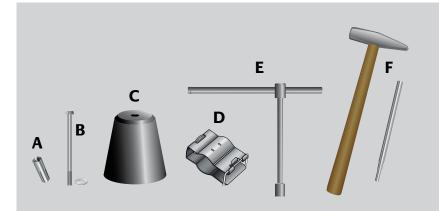
- A Nylon plug P6
- **B** Round base spacer RB80
- **C** Wood screw WS125 Ø 4,5 mm
- **D** Clic clamp
- E Screwdriver (Torx T 25)



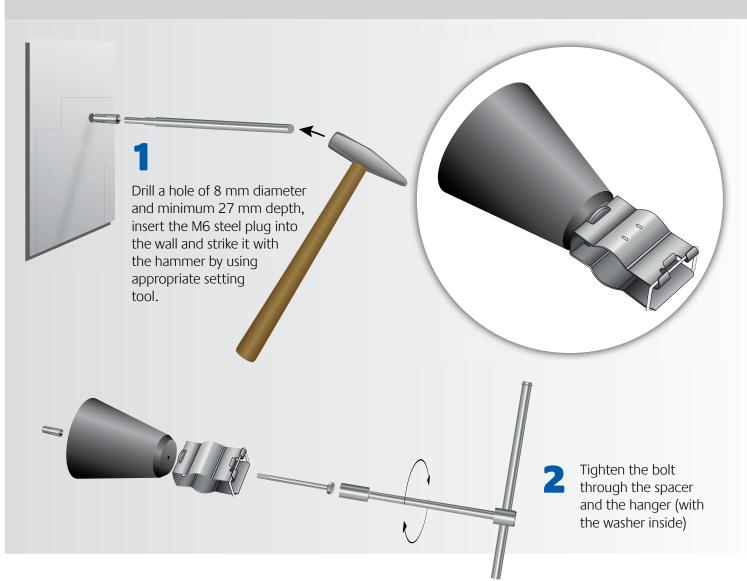


Installation instruction for clip hangers EUCH-xx-NH

(recommended every 10 meters)



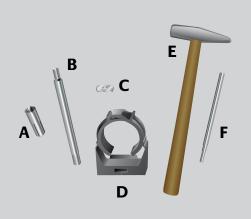
- A Stainless steel plug M6 HPM6-SS
- **B** Bolt with metric thread, stainless steel B6/90-SS (M6 x 90, hex socket head), with washer
- **C** Round base spacer RB80
- **D** Clip hanger EUCH-xx-NH
- **E** Tool with hexagonal head 10
- **F** Hammer + setting tool



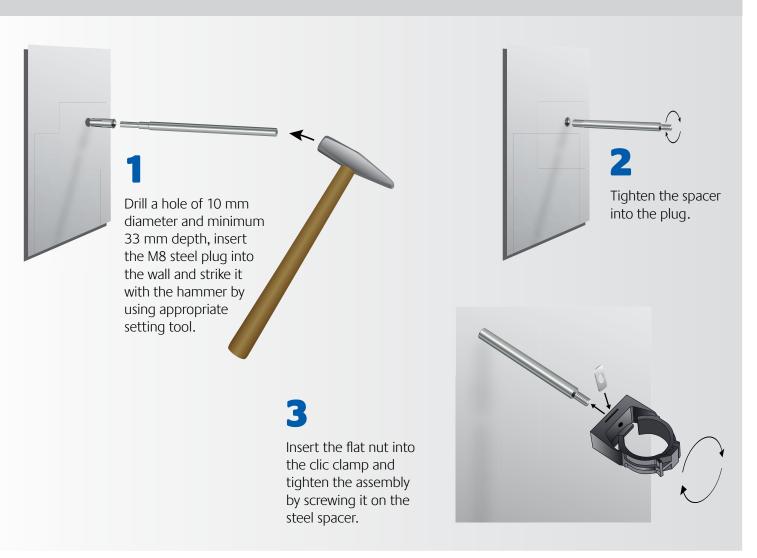


Installation instruction for clip clamp with steel plug and steel spacer

(recommended every 1 meter)

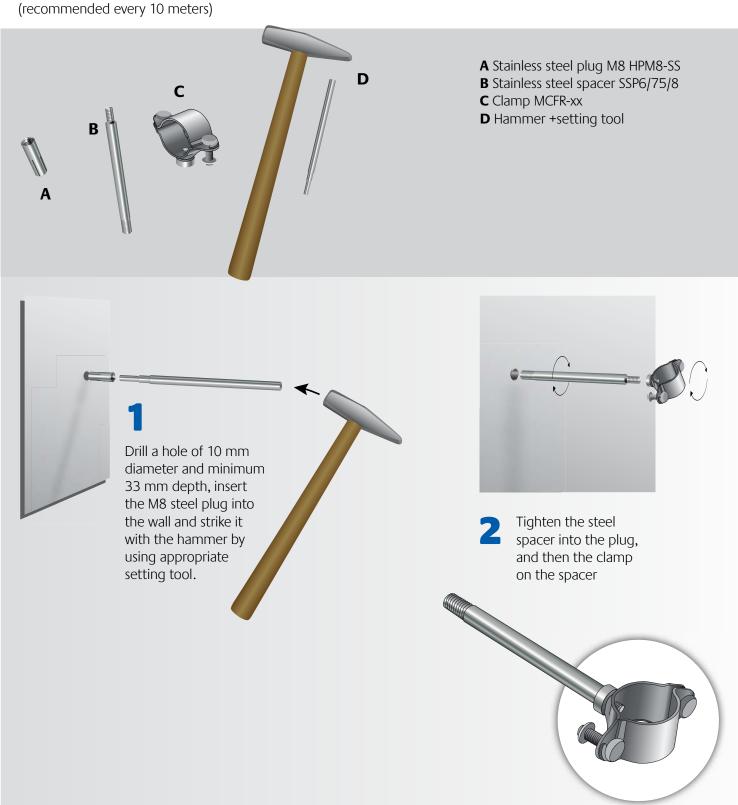


- A Stainless steel plug M8 HPM8-SS
- **B** Stainless steel spacer SSP6/75/8
- C Flat nut M6 FN6
- **D** Clic clamp
- **E** Hammer
- **F** Recommended setting tool





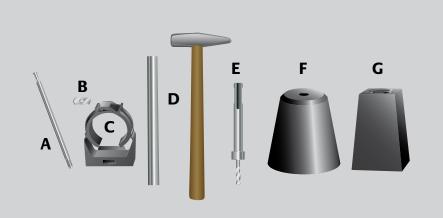
Installation instruction for steel clamp MCFRx with steel plug and steel spacer





Installation instruction for clic clamp with hammer set plug

(recommended every 1 meter)



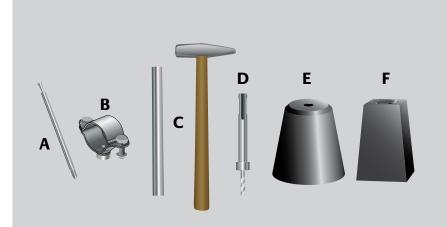
- A Stainless steel hammer set plug HSP6/xx
- **B** Flat nut M6 FN6
- **C** Clic clamp
- **D** Hammer + setting tool
- **E** Drill tool HSP
- **F** (optional) round base spacer RB 80 [to be used with HSP6/84]
- **G** (optional) rectangular base spacer SP85 [to be used with HSP6/90]



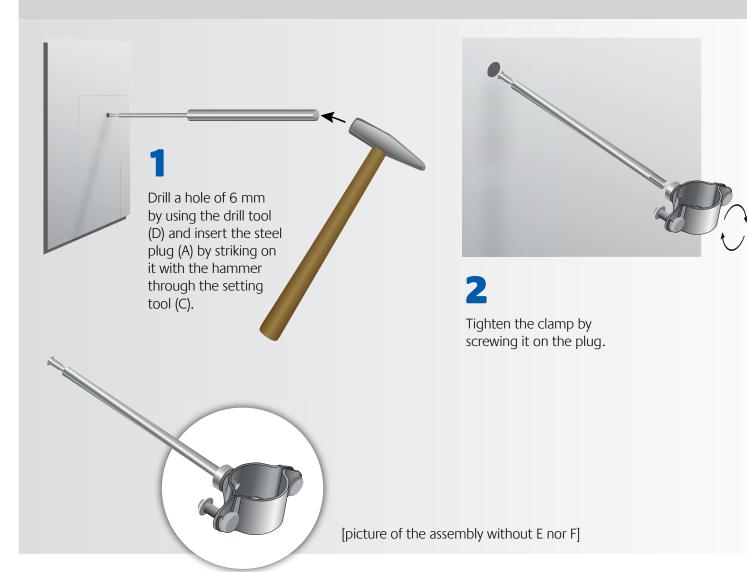


Installation instruction for steel clamp MCFRx with hammer set plug

(recommended every 10 meters)

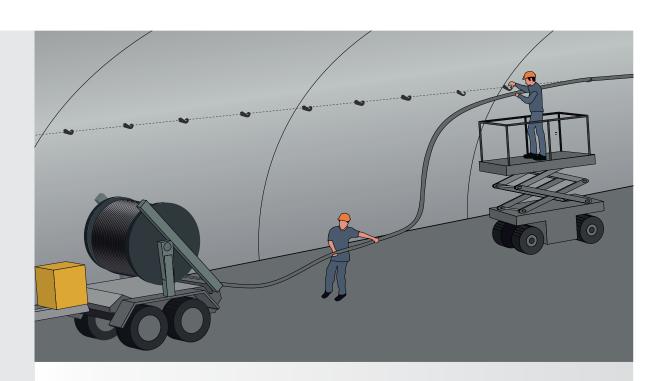


- A Stainless steel hammer set plug HSP6/xx
- **B** Clamp MCFR XX
- **C** Hammer + setting tool
- **D** Drill tool HSP
- **E** (optional) round base spacer RB 80 [to be used with HSP6/84]
- **F** (optional) rectangular base spacer SP85 [to be used with HSP6/90]

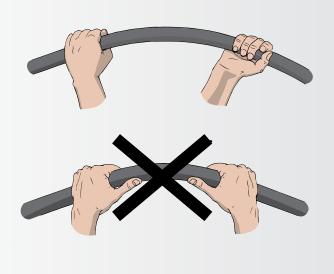




CABLE HANGING AND FIXING

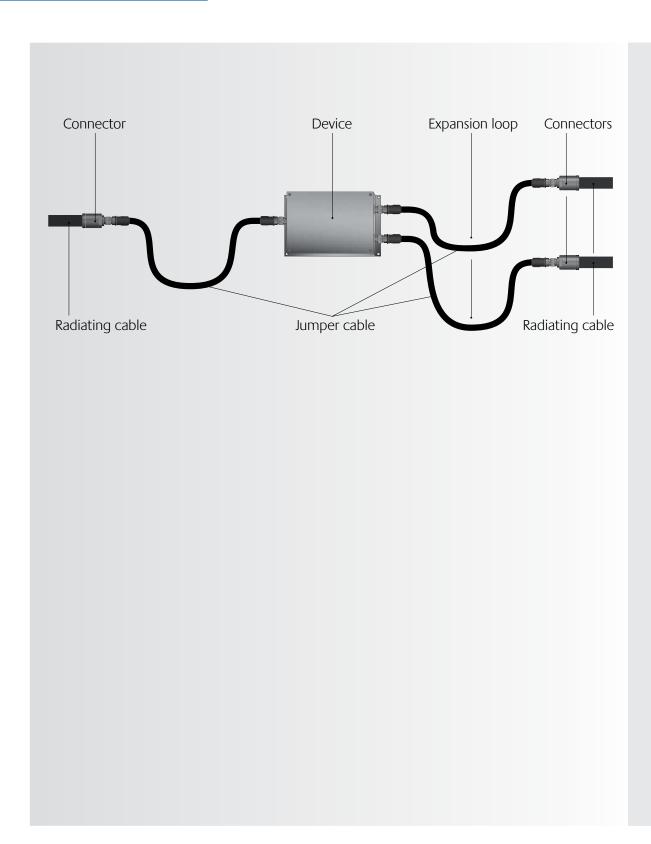


BENDING OF RF-CABLES





EXPANSION LOOPS





CONNECTORS INSTALLATION FOR RADIATING CABLES 1/2"



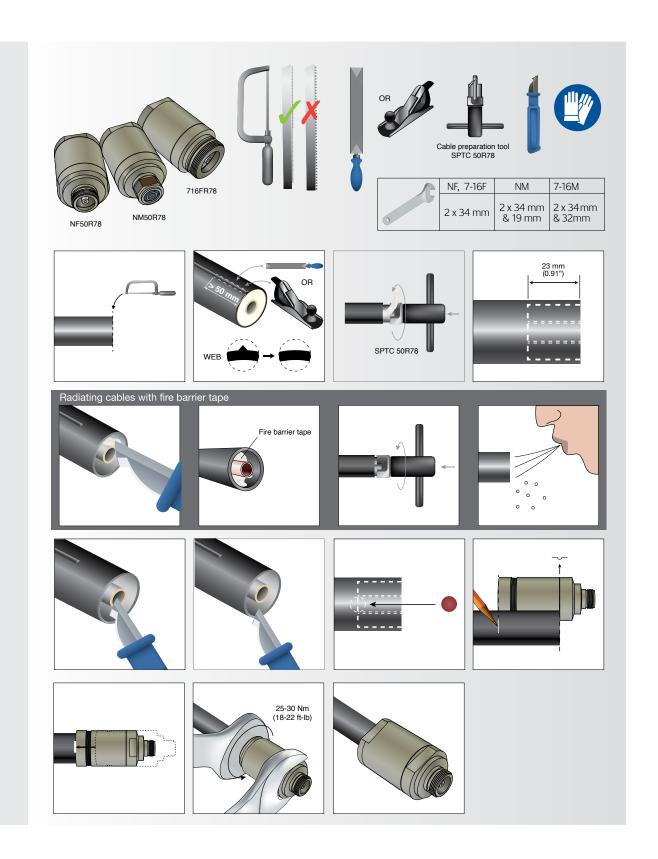


CONNECTORS INSTALLATION FOR RADIATING CABLES 5/8"



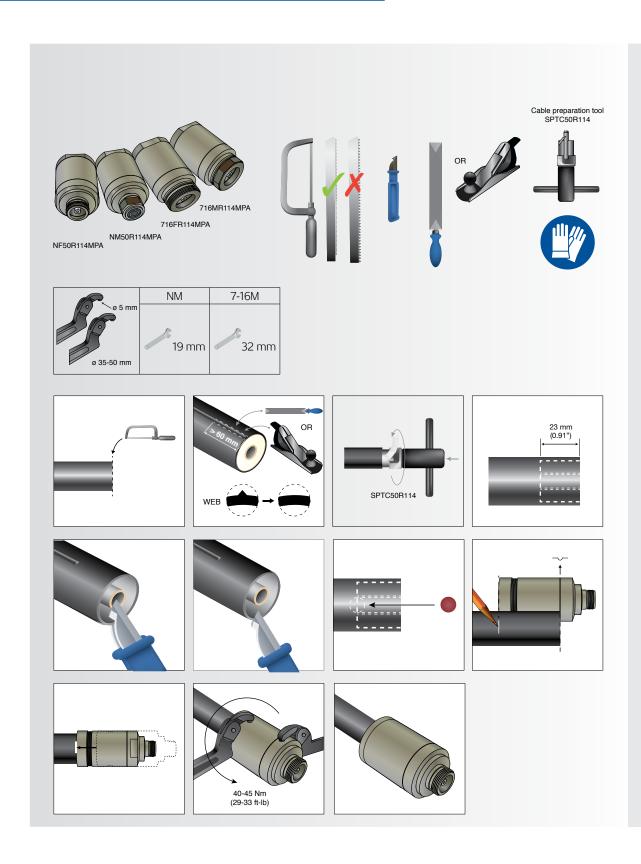


CONNECTORS INSTALLATION FOR RADIATING CABLES 7/8"





CONNECTORS INSTALLATION FOR RADIATING CABLES 1-1/4"



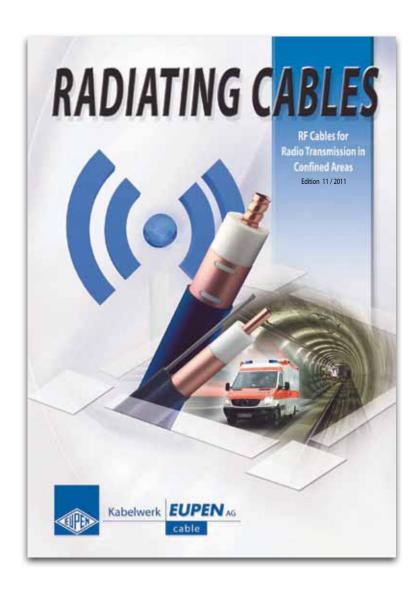


CONNECTORS INSTALLATION FOR RADIATING CABLES 1-5/8"





Fot further information, you can refer to our catalogue for Radiating Cables:





Malmedyer Str. 9 - 4700 EUPEN - BELGIUM

Tel.: +32(0)87.59.70.00 http://www.eupen.com Fax: +32(0)87.59.71.00

e-mail:info@eupen.com

ISO Certified Company