

Radiating Cables

Installation Guides

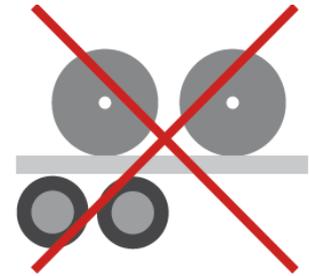
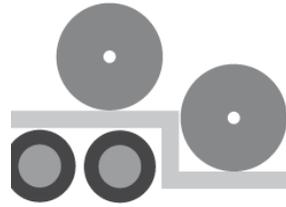
Company
Name

SRFS Teleinfra specializes in designing and manufacturing of Telecom Products. SRFS team has years of experience assisting customers worldwide with their RF and microwave component requirements. R&D is our highest priority, resulting in superior products at fair prices.

Safety On Sites

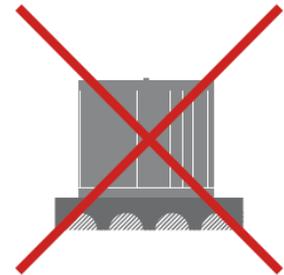
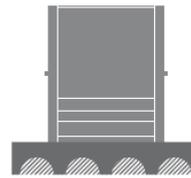
Cordoning - off the working area

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



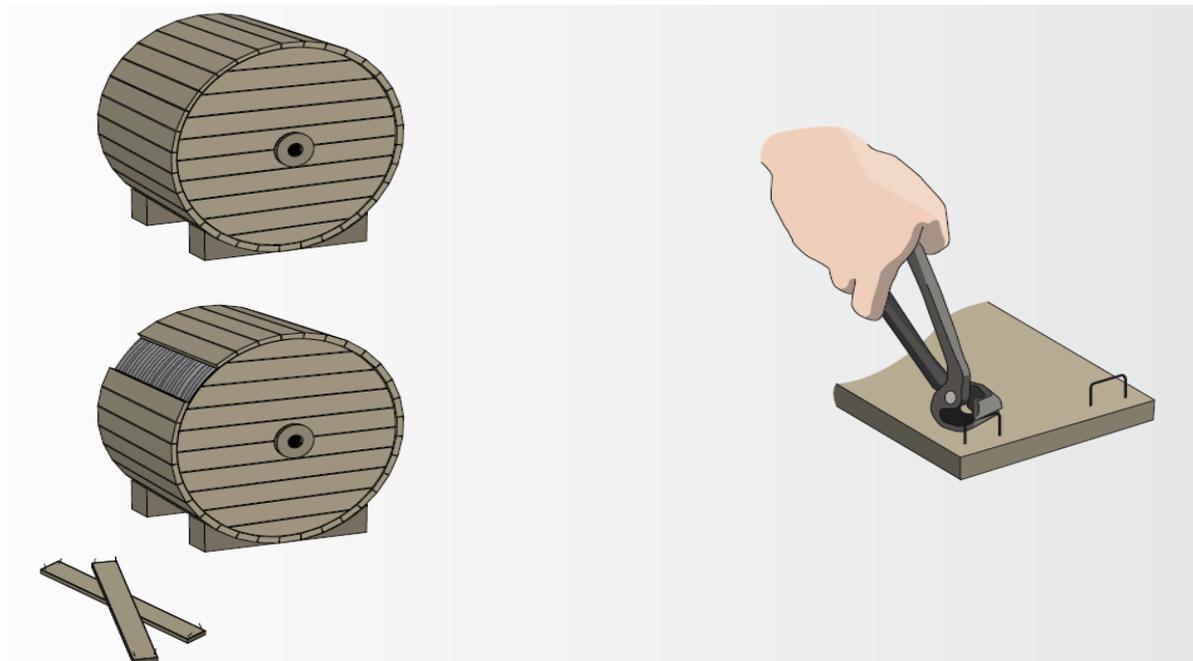
Keeping the access and emergency routes clear of

- Materials
- Tools
- Vehicles

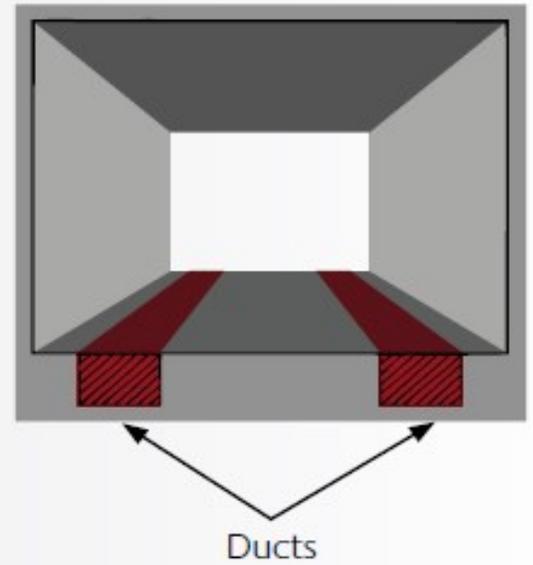
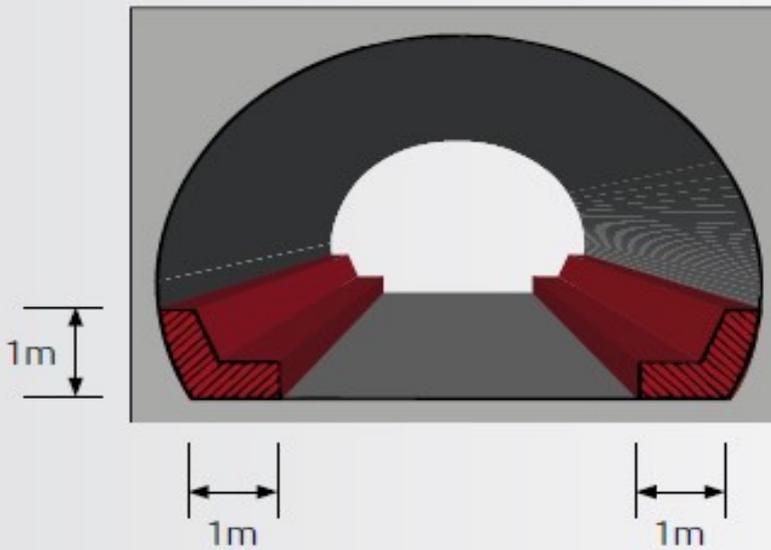
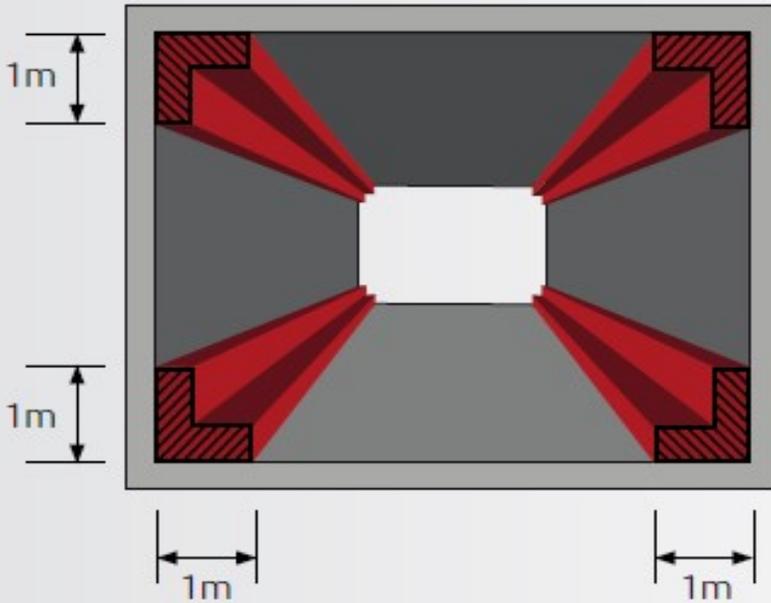


Fire precautions

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



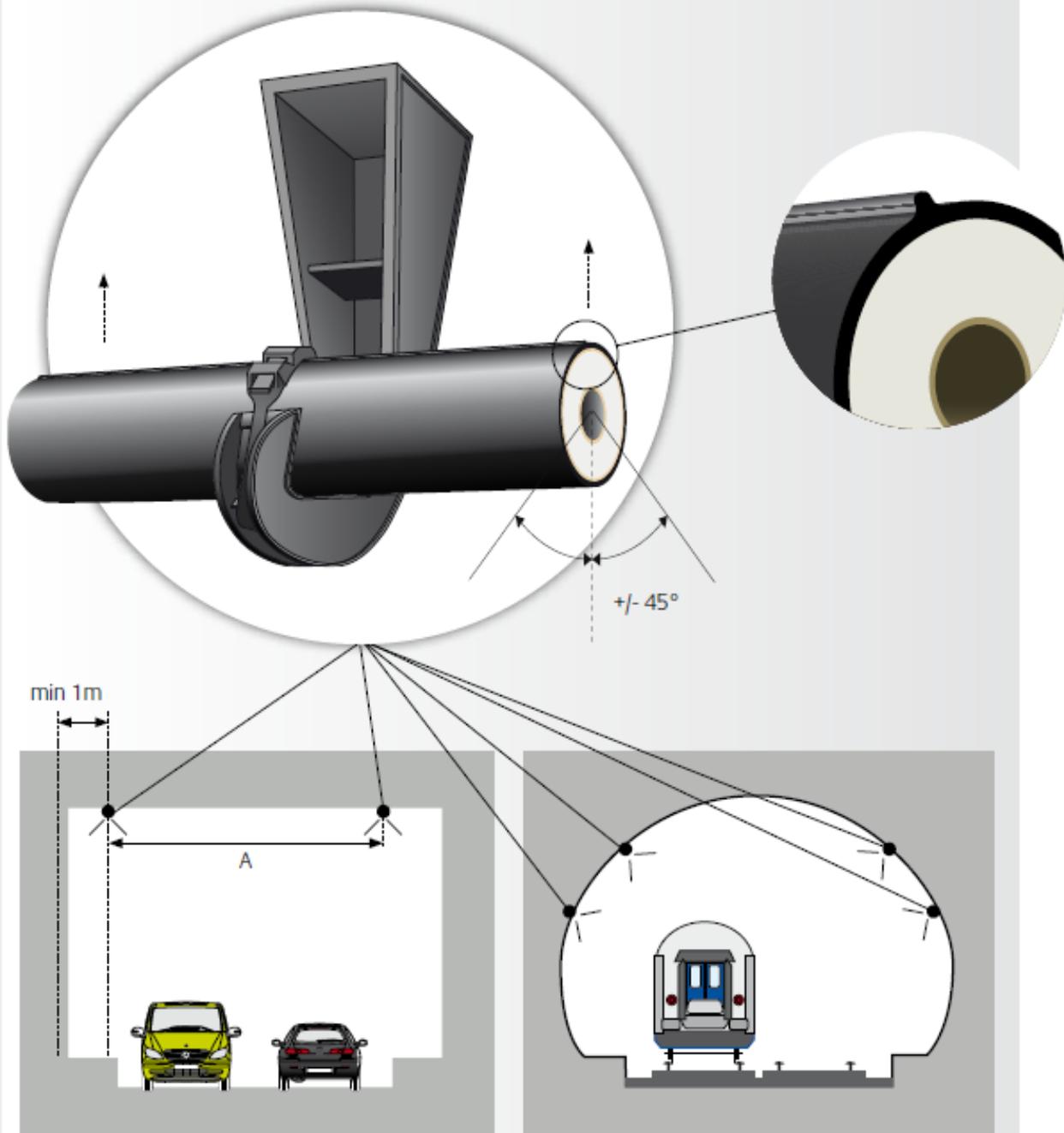
RADIATING CABLE POSITIONING IN TUNNELS



No radiating cable in these areas

ORIENTATION OF SLOTS FOR RMC CABLES

Apertures oriented towards area to be covered.
 The slots are located 180° opposite to an embossed line on the jacket.



ORIENTATION OF SLOTS FOR RMC CABLES

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

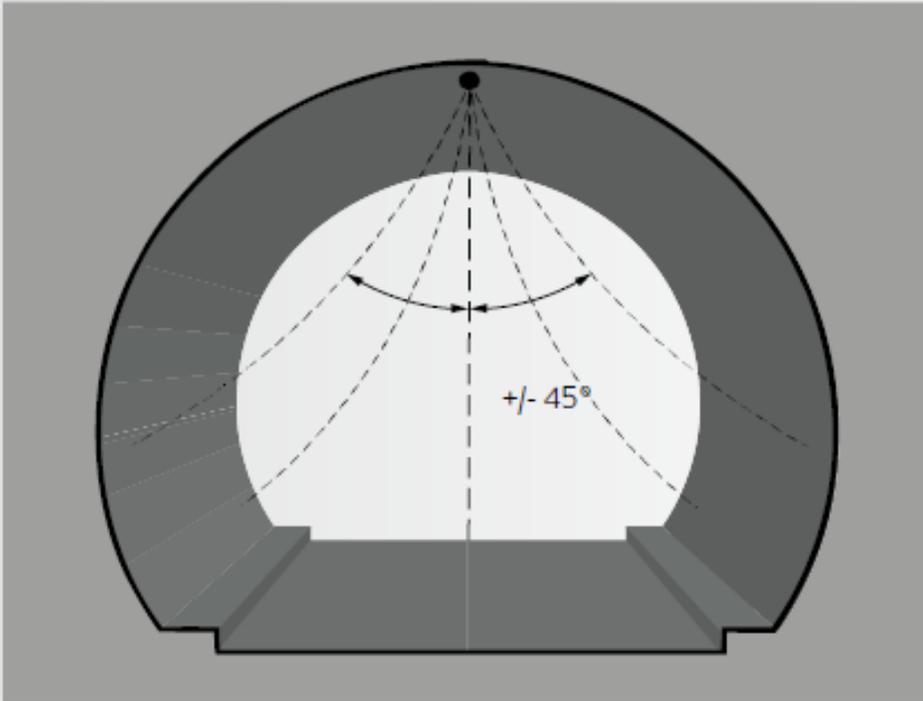


Figure 1:
Electric field lines
with the RC hung
in the centre of
the ceiling

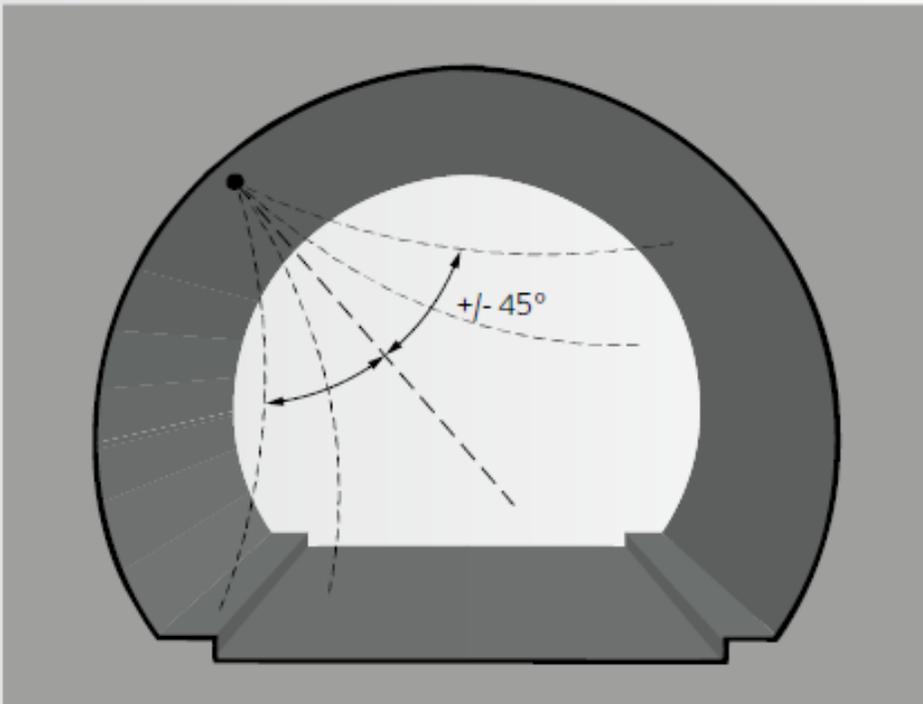
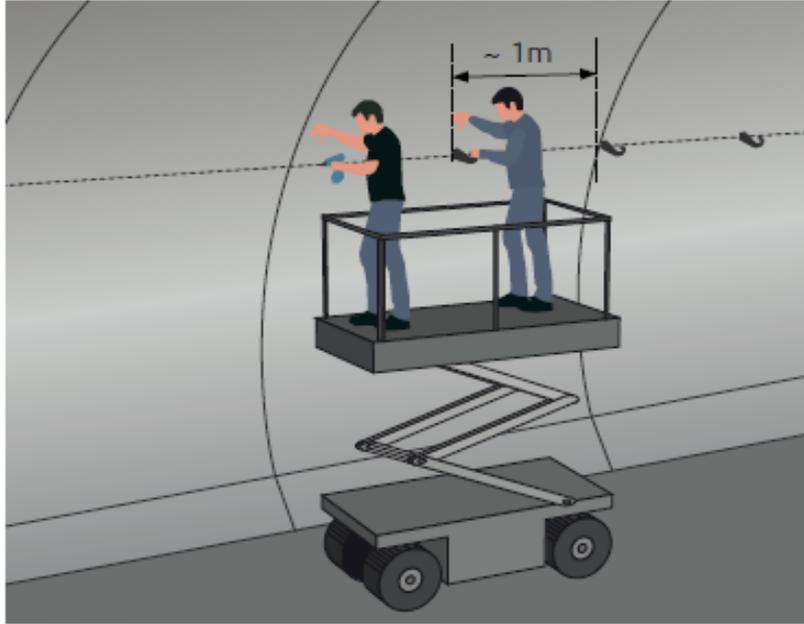


Figure 2:
Electric field lines
with the RC hung
at one side

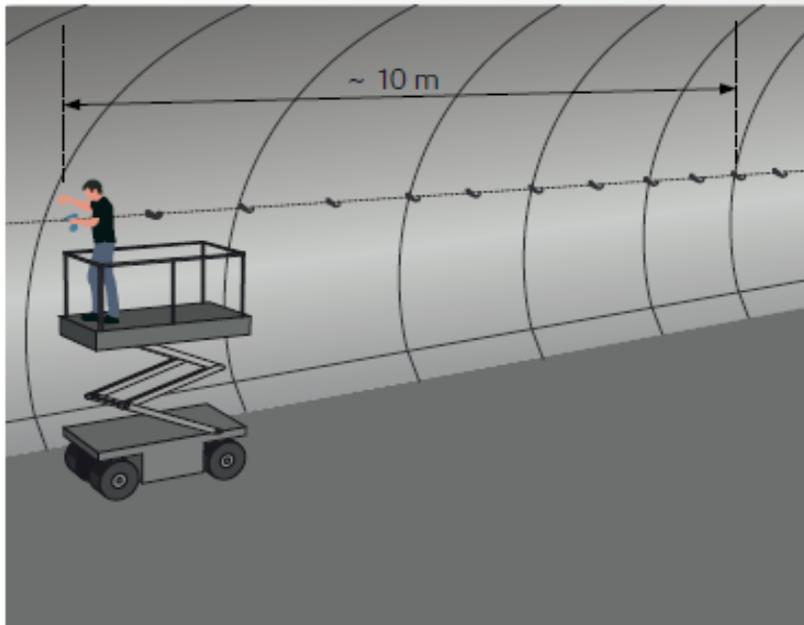
For LSC-and CMC-cables a cable orientation is not needed.

DRILLING AND CLAMPING

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

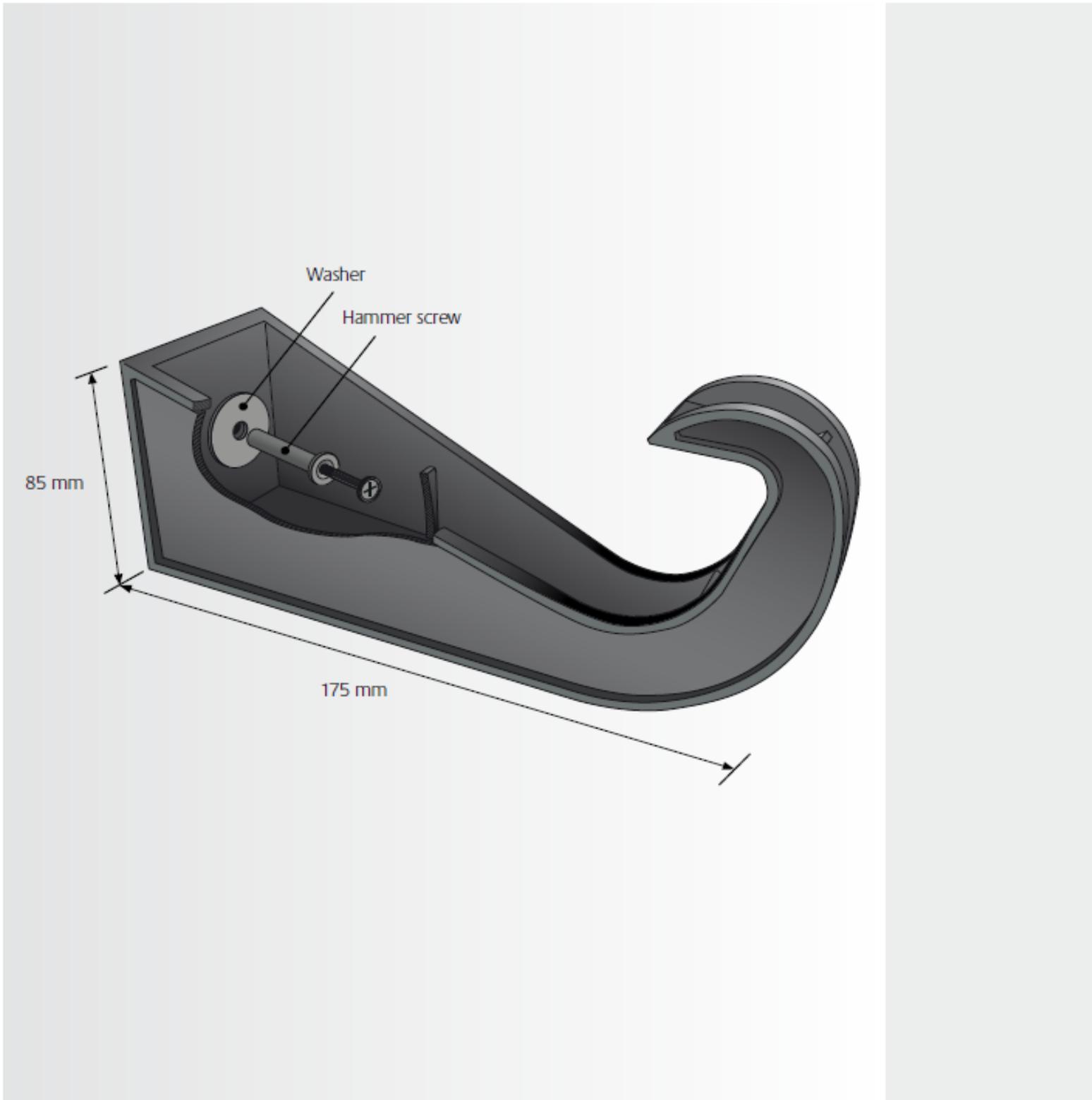


Every 10 meters, the recommended hangers should be of fire resistant type. They can be hook hangers with metal anchor and fire resistant belt, or clip hangers, or steel clamps.

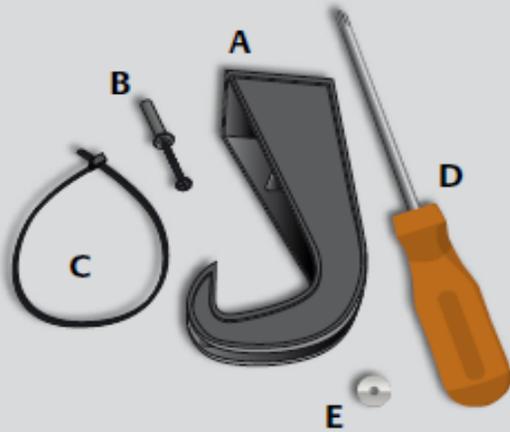


INSTALLATION MATERIAL

Hook hanger for radiating cable installation



Installation Instruction For Hanger With Hammer Screw



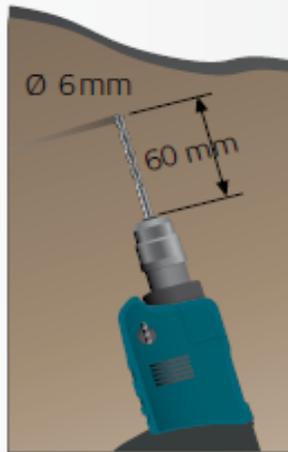
- A hangers for radiating coaxial cable
- B hammer screw
- C cable fastener band
- D adapted tool for hammer screw
- E metal washer

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.

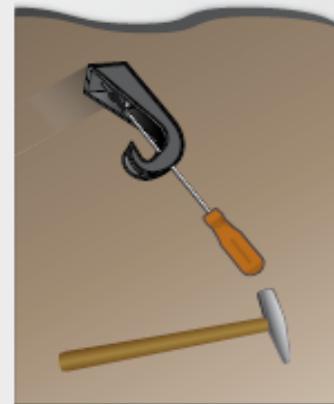
1

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



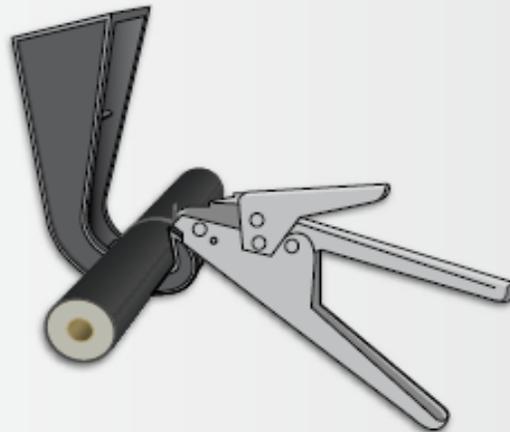
2

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

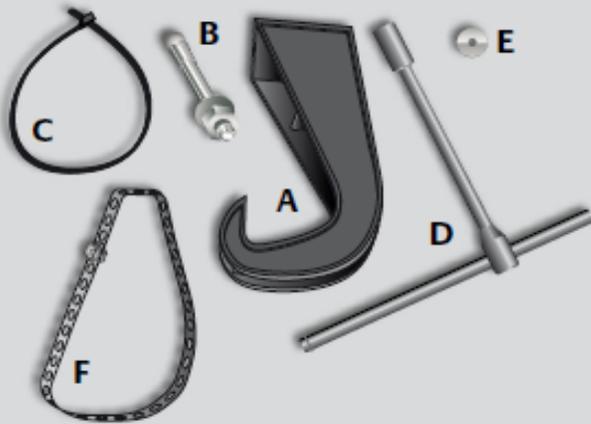


3

Hook the cable and fix it with cable fastener band.



Installation instruction for hanger with metal anchor and fire-resistant belt



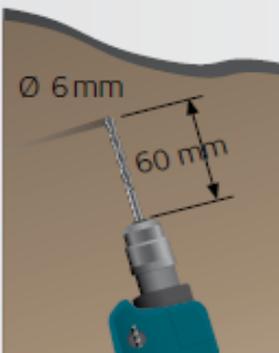
- A** hangers for radiating coaxial cable
- B** Metallic stud anchor M6 + small washer
- C** cable fastener band
- D** adapted tool for metal anchor
- E** Large metal washer
- F** FRSB (Fire Resistant Safety Belt)

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.

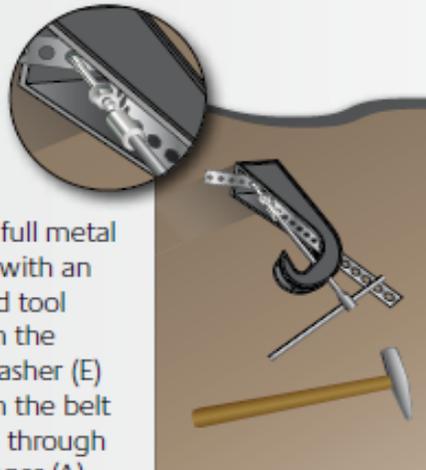
1

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



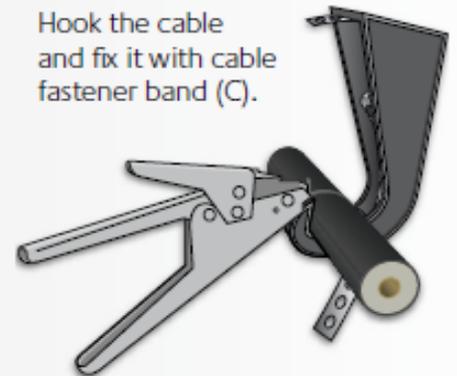
3

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



5

Hook the cable and fix it with cable fastener band (C).



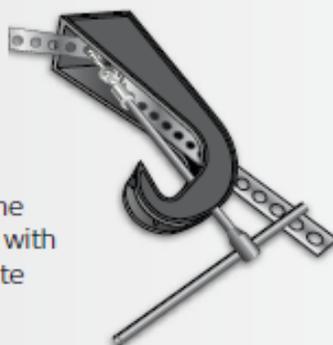
2

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



4

Tighten the fixing nut with appropriate tool (D).

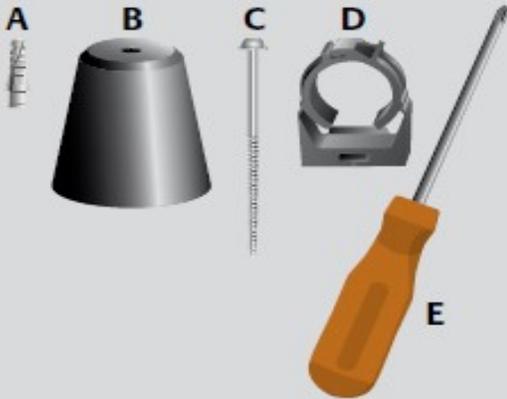


6

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



- 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)

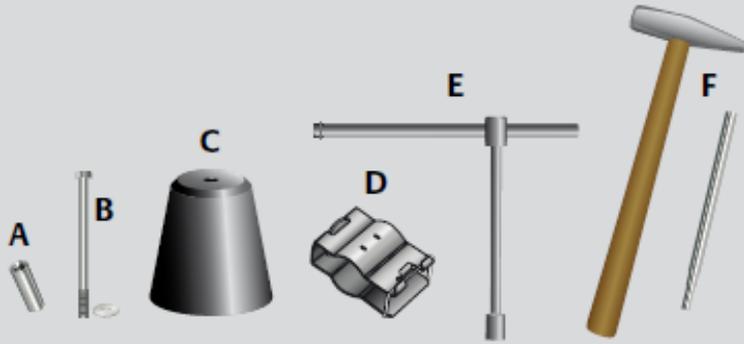
- 1** Drill a hole of 6 mm and insert the Nylon plug into the wall.



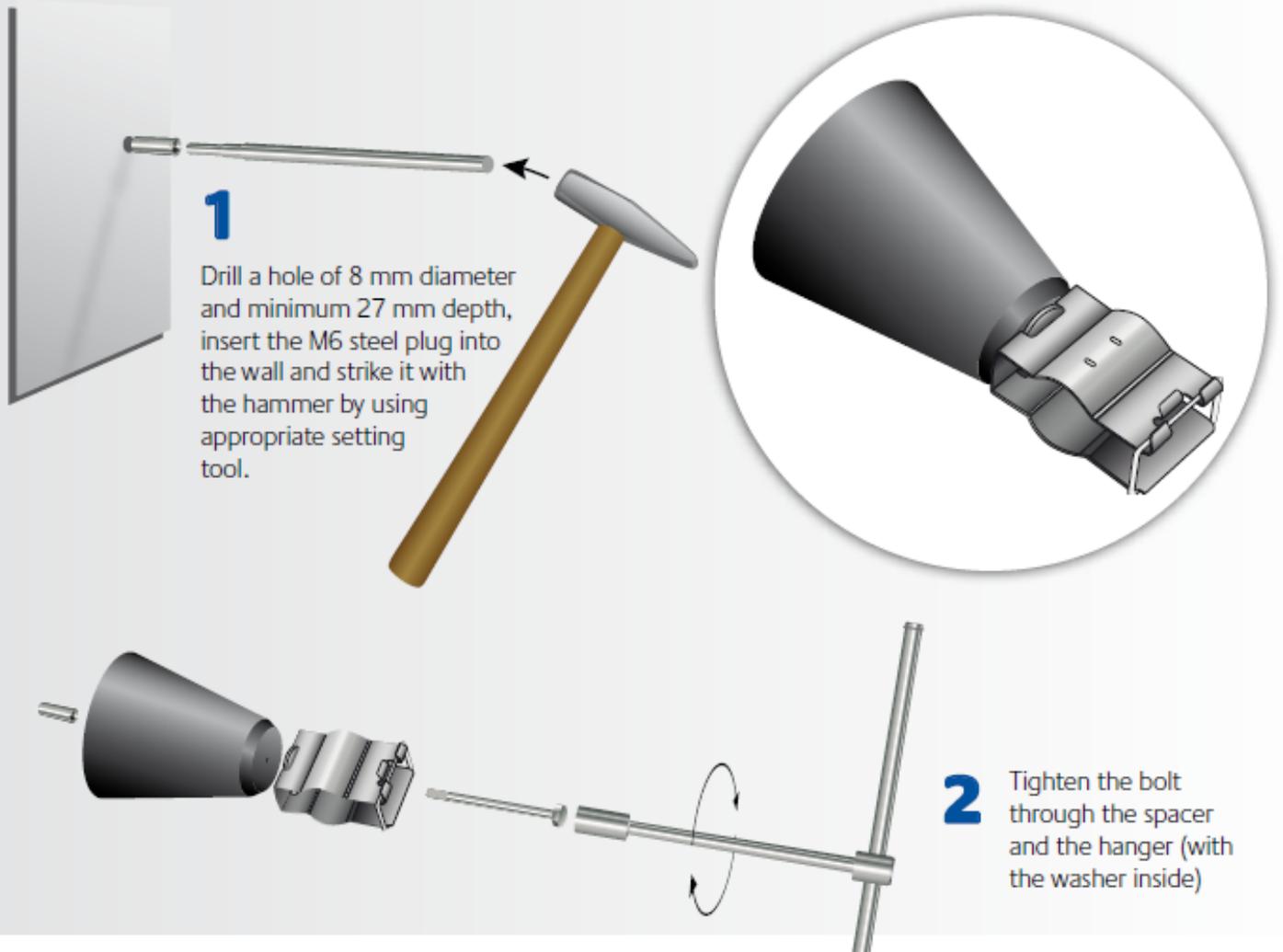
- 2** Tighten the screw with the screwdriver.



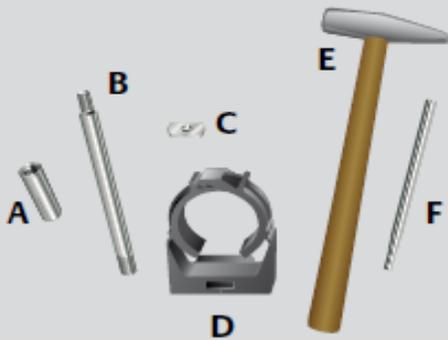
Installation instruction for clip hangers



- 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



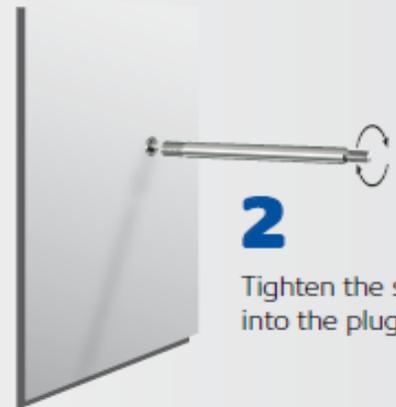
Installation instruction for clip clamp with steel plug and steel spacer



- 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



1
Drill a hole of 10 mm diameter and minimum 33 mm depth, insert the M8 steel plug into the wall and strike it with the hammer by using appropriate setting tool.

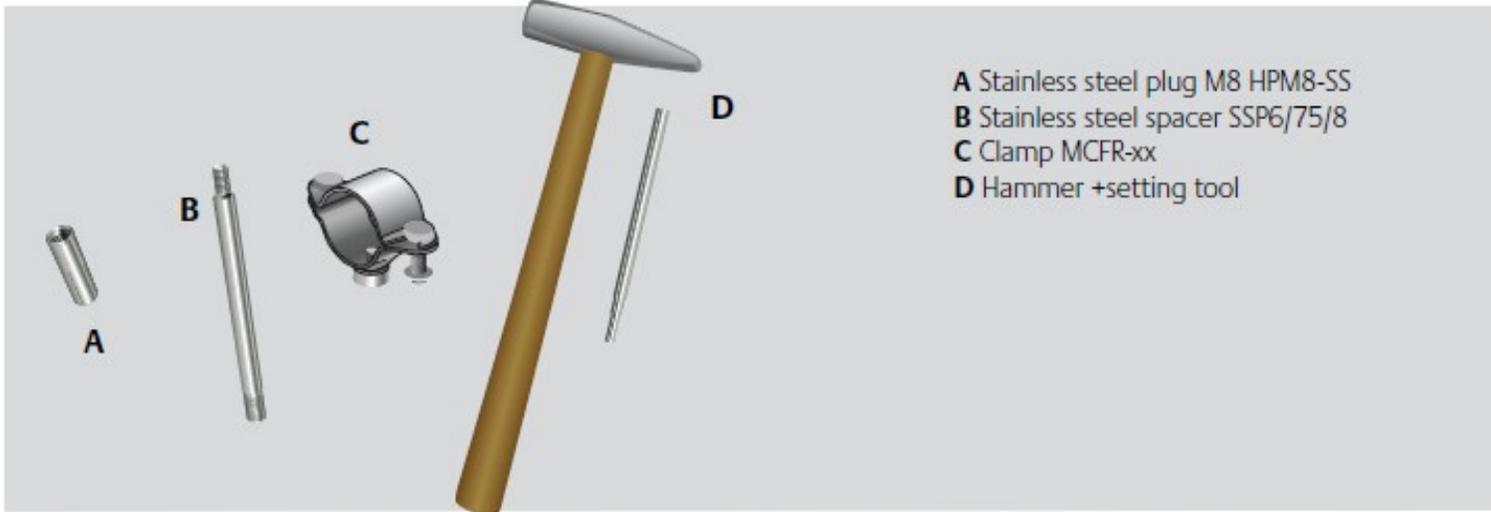


2
Tighten the spacer into the plug.

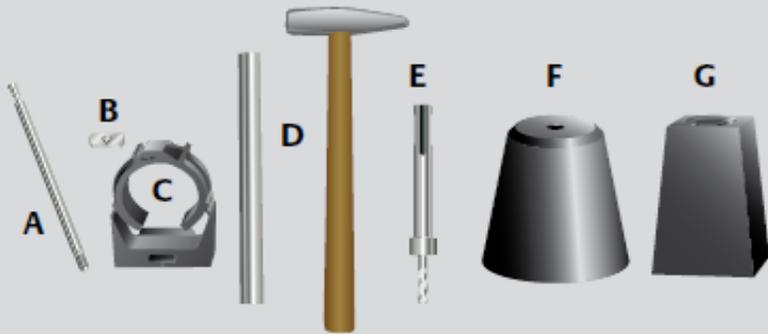


3
Insert the flat nut into the clic clamp and tighten the assembly by screwing it on the steel spacer.

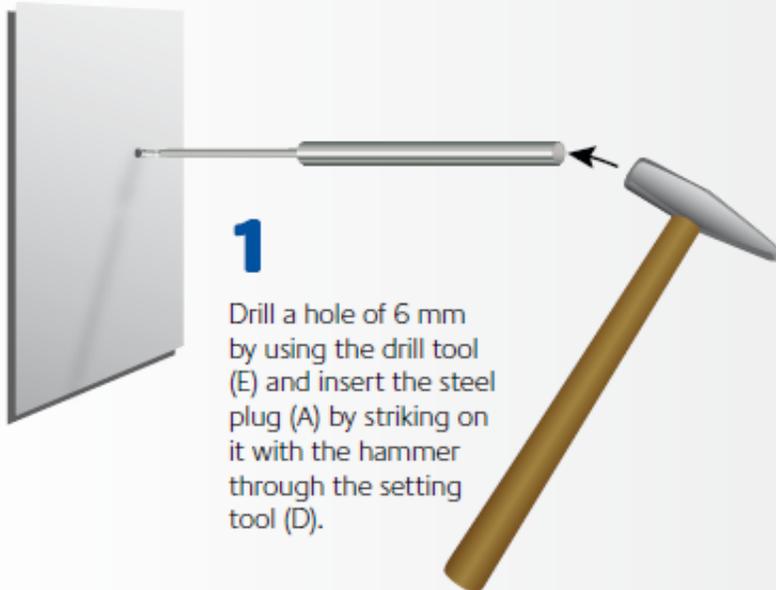
Installation instruction for steel clamp MCFRx with steel plug and steel spacer



Installation instruction for clic clamp with hammer set plug

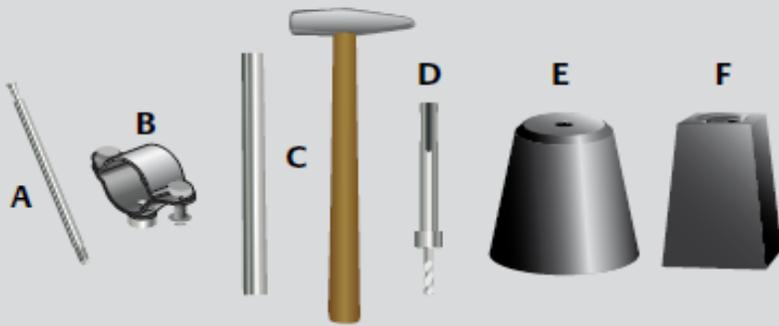


- A Stainless steel hammer set plug HSP6/xx
- B Flat nut M6 FN6
- C Clic clamp
- D Hammer + setting tool
- E Drill tool HSP
- F (optional) round base spacer RB 80 [to be used with HSP6/84]
- G (optional) rectangular base spacer SP85 [to be used with HSP6/90]



[picture of the assembly without F nor G]

Installation instruction for steel clamp MCFRx with hammer set plug



- 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]

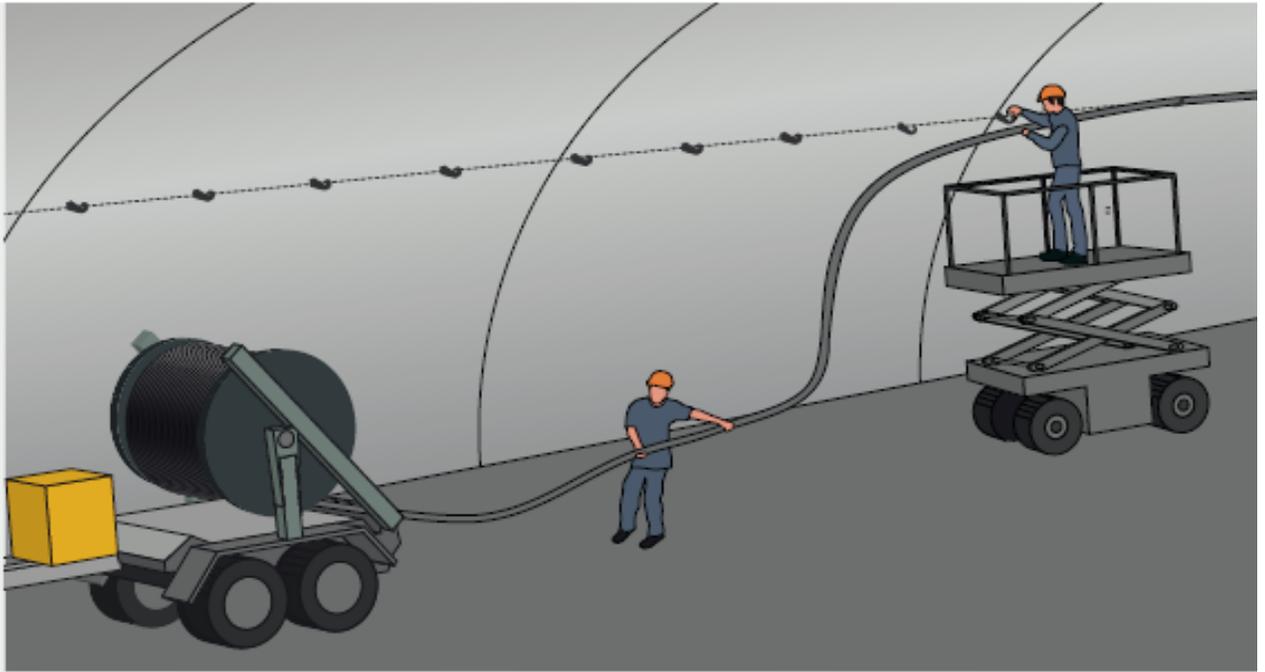


- 2**
Tighten the clamp by screwing it on the plug.

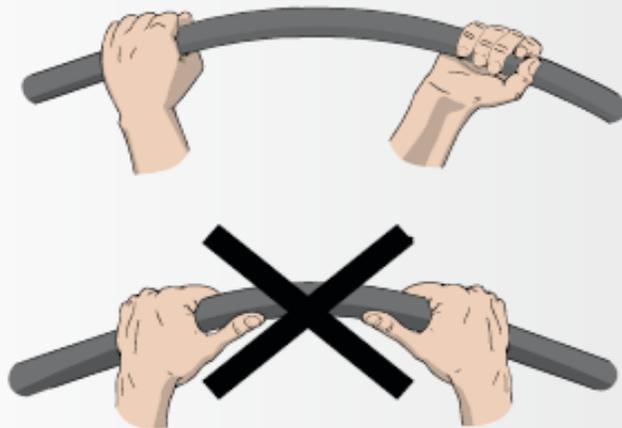


[picture of the assembly without E nor F]

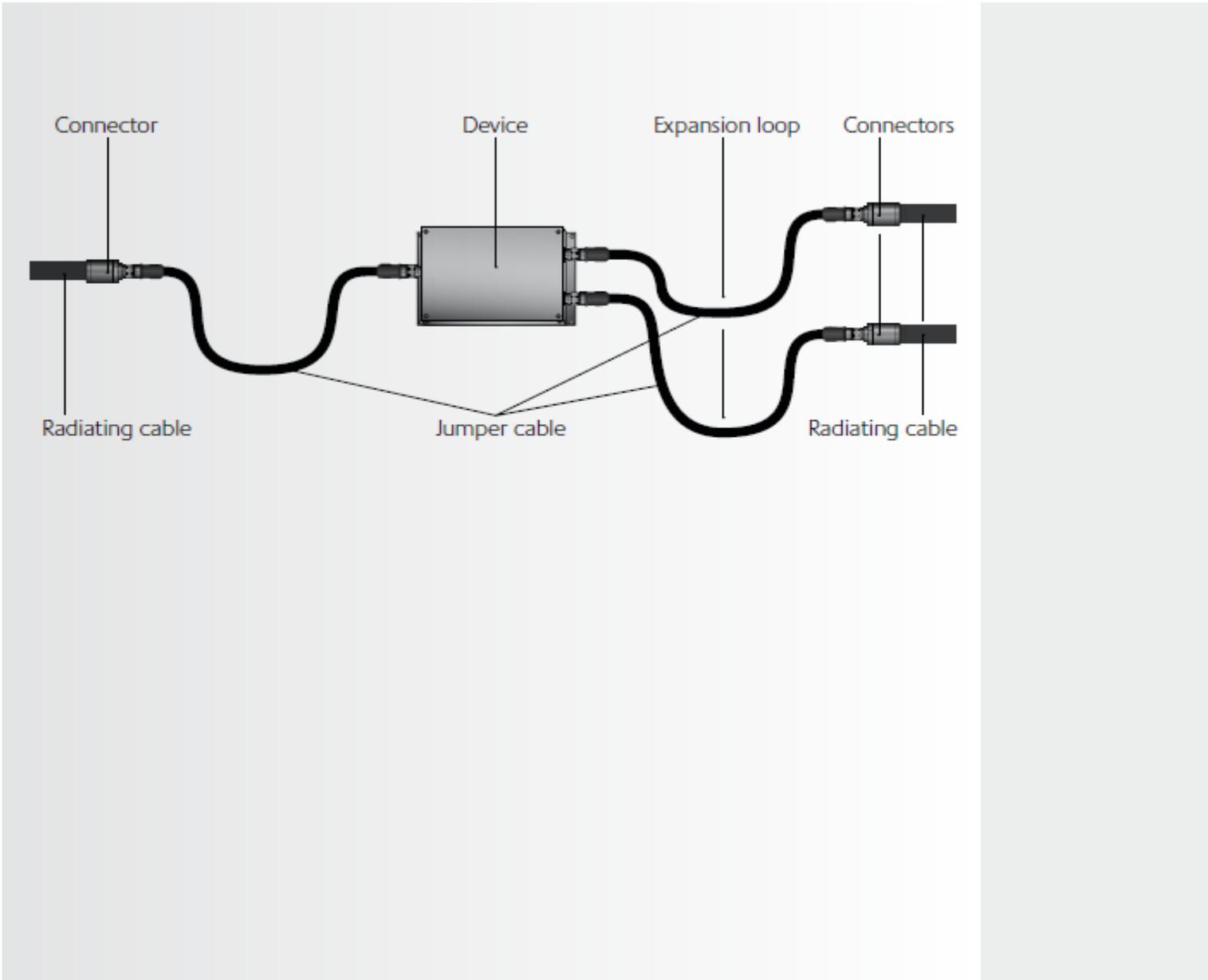
CABLE HANGING AND FIXING



BENDING OF RF-CABLES



EXPANSION LOOPS

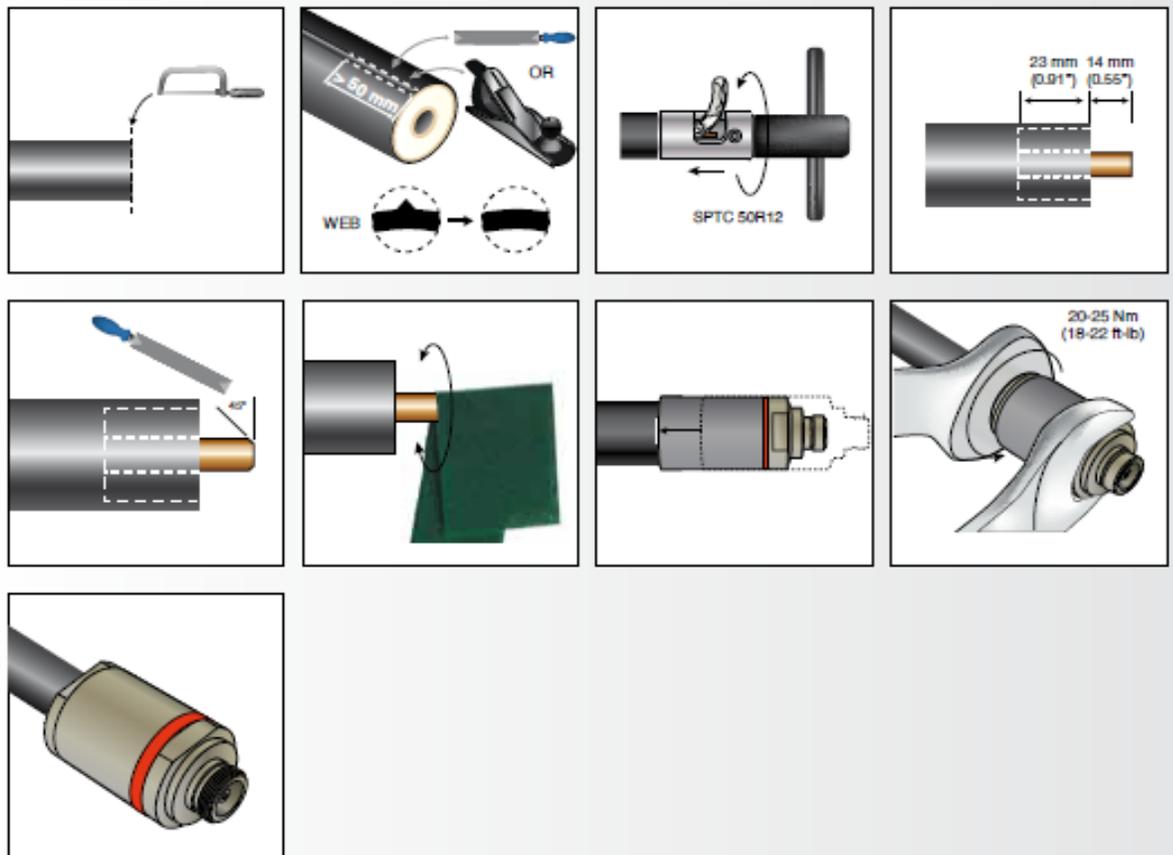


CONNECTORS INSTALLATION FOR RADIATING CABLES 1/ 2"

Typical installation of radiating cables.



| | | | |
|--|-----------|-------------------|-------------------|
| | NF, 7-16F | NM | 7-16M |
| | 2 x 22 mm | 2 x 22 mm & 19 mm | 2 x 22 mm & 32 mm |

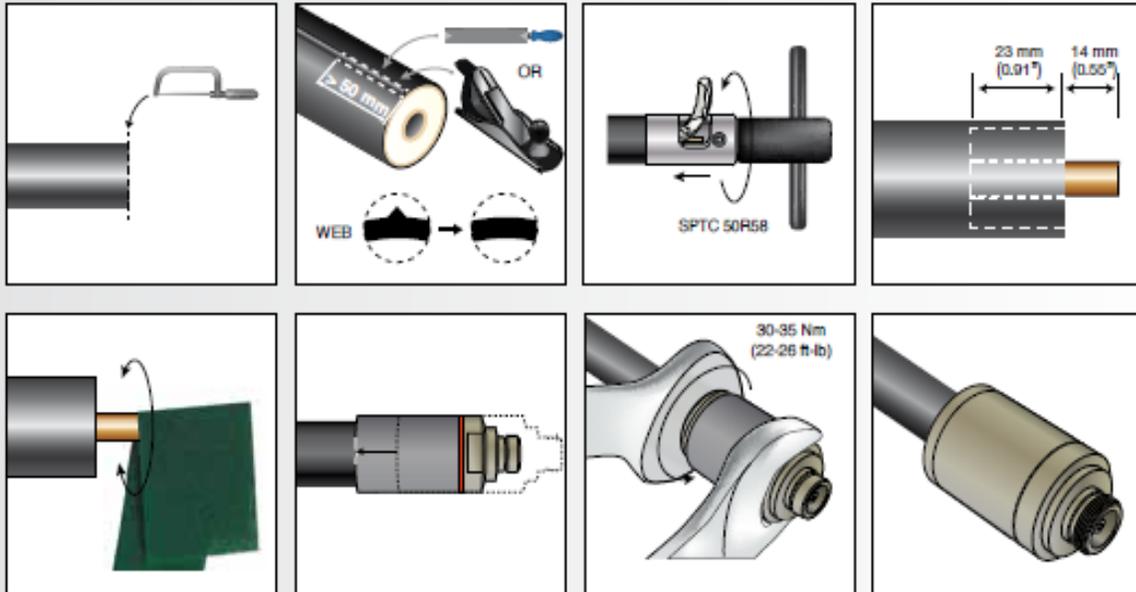


CONNECTORS INSTALLATION FOR RADIATING CABLES 5/8"

Typical installation of radiating cables.



| | | |
|--|-------------------|-----------|
| | NM | 7-16F/NF |
| | 2 x 28 mm & 19 mm | 2 x 28 mm |



CONNECTORS INSTALLATION FOR RADIATING CABLES 7/8"

| | | | |
|--|-----------|-------------------|------------------|
| | NF, 7-16F | NM | 7-16M |
| | 2 x 34 mm | 2 x 34 mm & 19 mm | 2 x 34 mm & 32mm |

Typical installation of radiating cables



CONNECTORS INSTALLATION FOR RADIATING CABLES 1-5/8"

Typical installation of radiating cables.

