



EUPEN Cable USA

CONNECTOR INSTALLATION MANUAL

50 Ohm Coaxial, Elliptical Waveguide, Radiating

INNOVATION & TRADITION

100 Years of Cable Manufacturing

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About this Manual

This connector installation manual will give installers a step by step instruction on how to properly install Eupen 50 Ohm Coaxial, Elliptical Waveguide and Radiating connectors. This will include different methods of installation by the use of common hand tools and or automated tooling. Any liability or responsibility for the results of improper or unsafe installation is here by disclaimed.

Contact **Eupen Cable USA, Inc.** for field support at **1-800-419-5100**
or on the web **www.eupen.us**



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Certificate of Training

THIS IS TO CERTIFY

The holder of this certificate has successfully completed
The Eupen Authorized

- | | |
|--------------------------|--------------------------------------|
| ☐ | Coax Training Course |
| ☐ | Elliptical Waveguide Training Course |
| ☐ | Hybrid Fiber Training Course |

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Cables | Connectors | Tools | Jumpers | Site Accessories
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Safety Precautions

Safety on the job site must be the primary consideration and top priority at all times. Before beginning any installation, the appropriate OSHA safety guidelines should be reviewed with all onsite personnel and adhered to at all times. All personnel must wear the appropriate construction safety gear including gloves and eye protection at all times.



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50 Ohm Coaxial Connectors	Section 2
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Cable Products Reference Sheets	Section 5





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BEST PRACTICES AND TECHNICAL DOCUMENTS

SECTION 1

Best Practices for PIM Performance	1
Torque Wrench Specification Guide	1
Connector Cleaning	1
Coupler Nut Torque Specifications	2
Attaching Connector Couplers Instructions	2



BEST PRACTICES

There are a few common practices that can be applied when installing connectors to ensure PIM does not become an issue.

Dirty Tools - tools should be inspected prior to use to ensure they are free of grease, dirt, and debris and cleaned if necessary.

Bent Cable Ends - cable end should be straight and cut in the valley before connector installation.

Center Conductor - center conductor should be free from scrapes and properly chamfered (see picture below).

Contaminated Dielectric - dielectric should be inspected to ensure it is free of grease, dirt and debris and cleaned if necessary

Torque Specifications - proper torque wrenches should be used to ensure sufficient contact pressure is achieved.

Contaminated Contacts - connector interfaces should be cleaned before mated to each other.



TORQUE WRENCH SPECIFICATION GUIDE

CONNECTOR BACK NUTS		
Cable Type	Connector Torque Specification	Torque Wrench
EC4-50-HF	20 ft lbs	TQ-34-F20
EC4-50	16 ft lbs	TQ-34-F16
EC5-50-A	22 ft lbs	TQ-30MM-F22
EC6-50-A	29 ft lbs	TQ-11116-F29
EC7-50-A	37 ft lbs	TQ-214-F37
Connector Interface		
Interface Type	Interface Torque Specification	Torque Wrench
N	2.2 - 3.7 ft lbs	TQ-34-F4
4.1-9.5	11 ft lbs	TQ-78-F11
7-16 DIN	18 ft lbs	TQ-114-F18-M
4.3-10	6 ft lbs	TQ-78-F6

Cleaning Connector Interfaces

Using alcohol pads containing 70% isopropyl alcohol, clean the inside of the connector interface to include the centerpin and dielectric. Ensure that all dust, dirt and debris are removed before mating connectors. Clean compressed air can be used to remove any residual alcohol.



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TECHNICAL DOCUMENT

ATTACHING CONNECTOR COUPLERS

Style	Torque Specification	Torque Wrench Part Number	Connector Body Size (standard)	Connector Body Size (Hiflex)
"N"	2.2 - 3.7 ft lbs	TQ-34-F4	19 mm	19 mm
"4.1-9.5"	11 ft lbs	TQ-78-F11	19 mm	N/A
"7/16 Din"	18 ft lbs	TQ-114-F18-M	21 mm	21 mm
"4.3- Din"	6 ft lbs	TQ-78-F6	21 mm	N/A

Please note standard and hiflex right angle connector bodies require an 24mm open ended wrench



Step 1 - Attach coupler nut finger tight



Step 2 - With an open ended wrench hold connector body in a fixed position



Step 3 - Use torque wrench to tighten coupler nut until the wrench handle "clicks", at this point the proper torque has been applied



Step 4 - Remove wrench and torque wrench

50 Ohm Coaxial Connector Installation Instructions

SECTION 2

EC1-50- HF 1/4"

EC4-50-HF 1/2"

EC1-50 1/4"

EC4-50 1/2"

EC4-50-PL 1/2"

EC4.5-50 5/8"

EC5-50 A 7/8"

EC6-50 A 1-1/4"

EC7-50A 1-5/8"

EIA Flange Connector EC4-50 1/2"

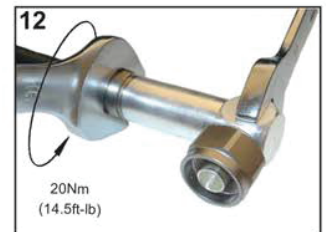
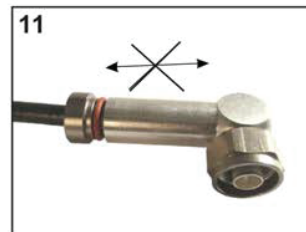
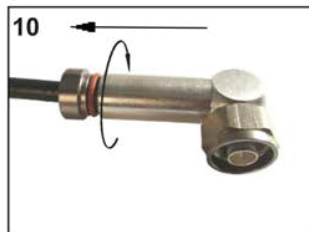
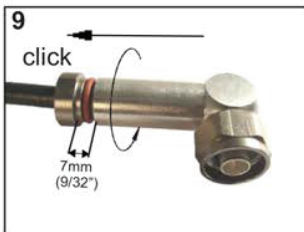
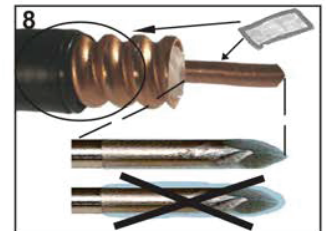
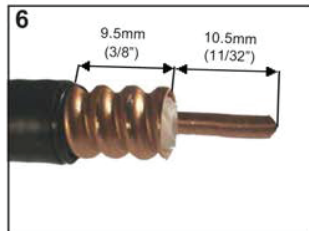
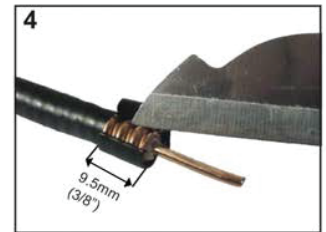
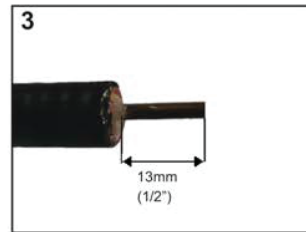
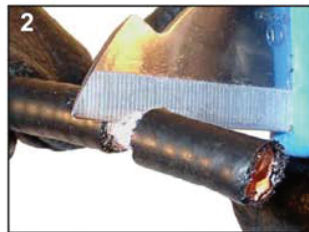
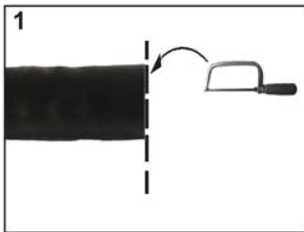
EIA Flange Connector for 7/8" to 1-5/8"





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B + C



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1/2" X (1/2" HIFLEX) - straight connectors

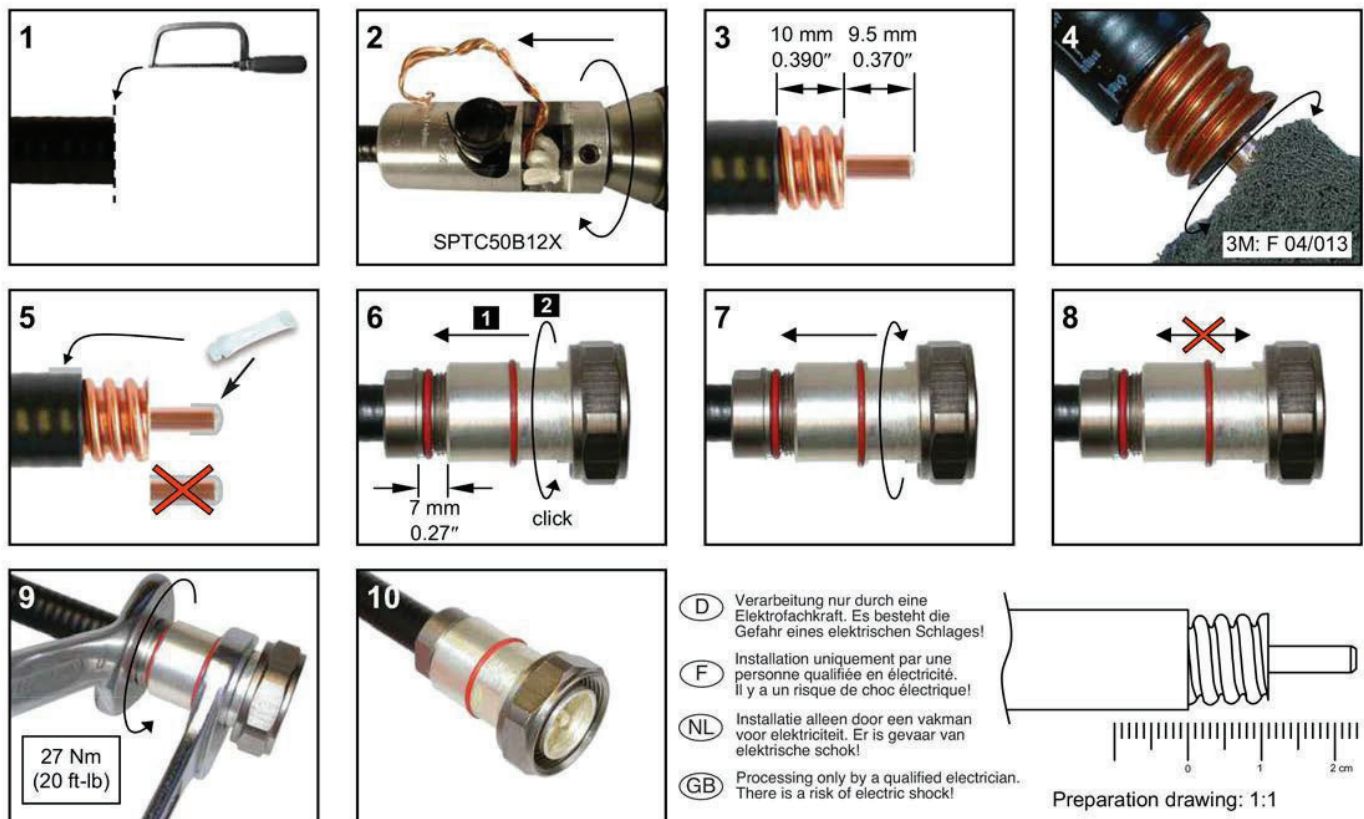


1/2"X	SPTC50B12X

	NF, NM	7/16M	7/16F
	2 x 19 mm	19 mm & 21 mm & 32 mm	19 mm & 21 mm



PREPARATION TOOL METHOD





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1/2" X (1/2" HIFLEX) - right angle connectors

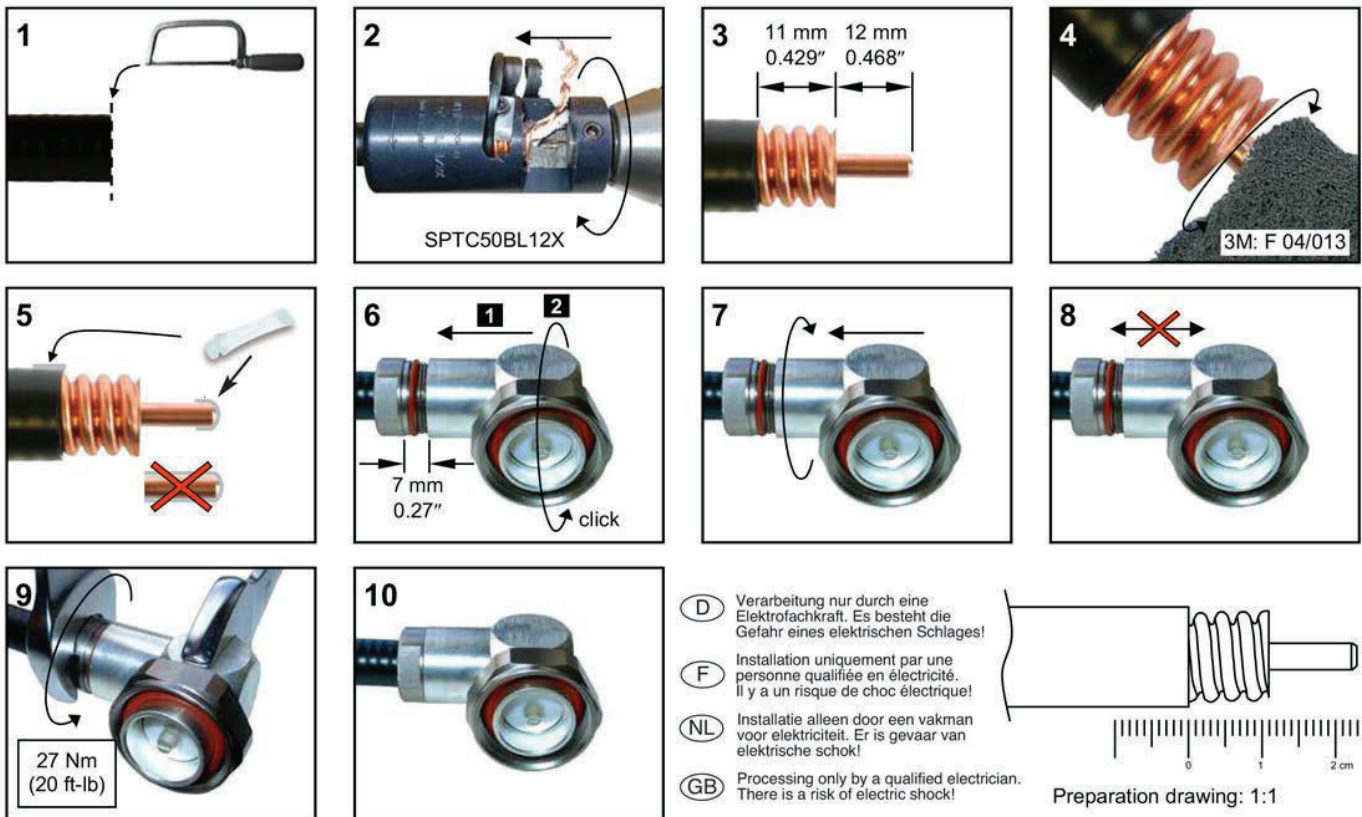


1/2"X	SPTC50BL12X

	NM	7/16M
	19 mm & 23 mm	19 mm & 23 mm & 32 mm



PREPARATION TOOL METHOD



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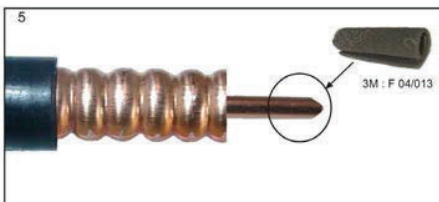
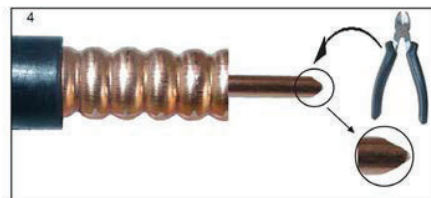
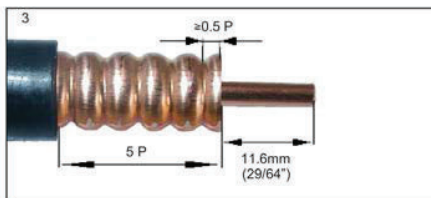
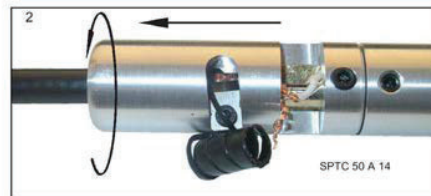
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INSTALLATION INSTRUCTIONS

... A 1/4 & ... A L 1/4 CONNECTORS



	NM - NF	NML
	2 x 14mm + 1 x 19mm	1 x 14mm + 1 x 19mm + 1 x 16mm





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1/2" - Straight & right angle connectors - O-Ring type



EC4-50 (5128) EA4-50 (5127)	SPTC50AV12

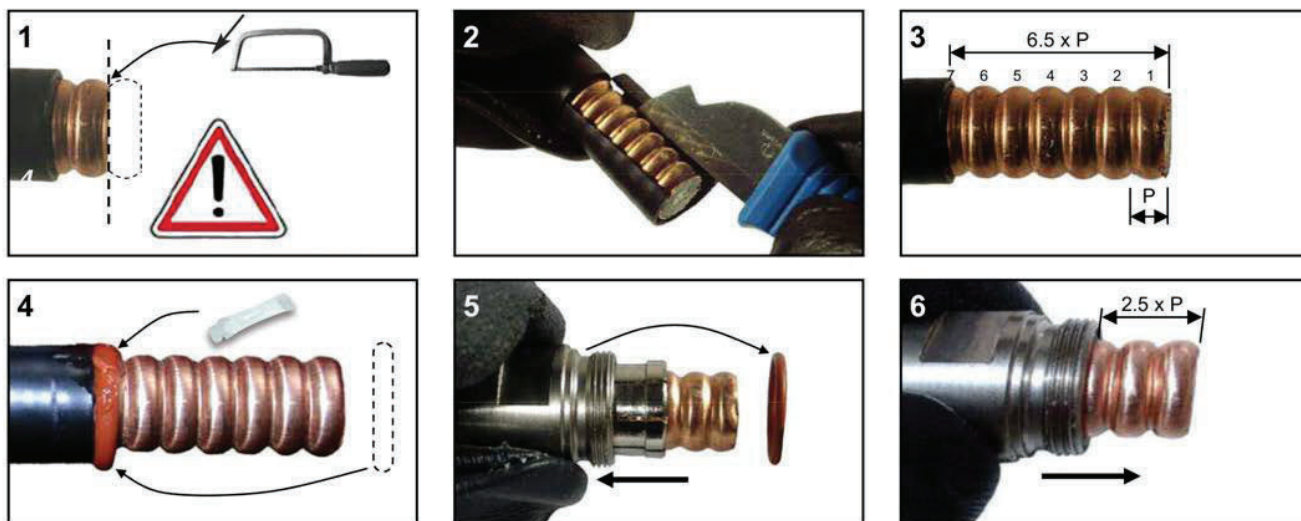
Please use the cable preparation tool SPTC50AV12 and refer to its instructions for use.

Follow the instruction process below only if the tool SPTC50AV12 is not available.



	NF, NM	NM50VL12	4.3/10M N1	7/16M N1	7/16MVL12	7/16F N1 4.3/10F N1
	2 x 19 mm	19 mm & 23 mm	19 mm & 21 mm & 22 mm	19 mm & 21 mm & 32 mm	19 mm & 24 mm & 32 mm	19 mm & 21 mm

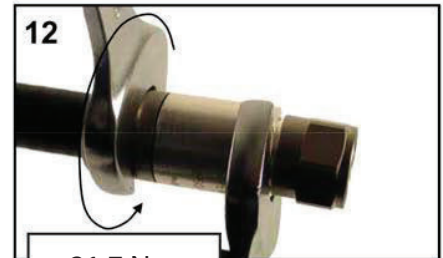
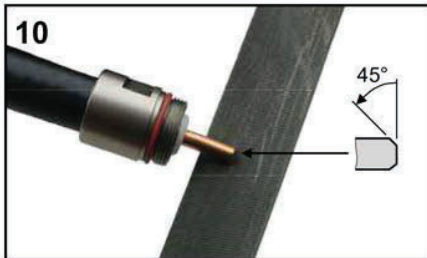
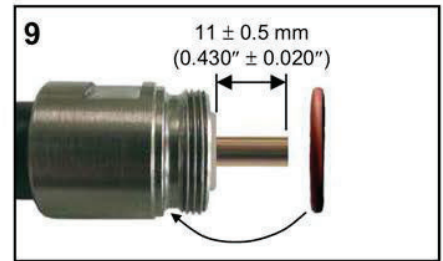
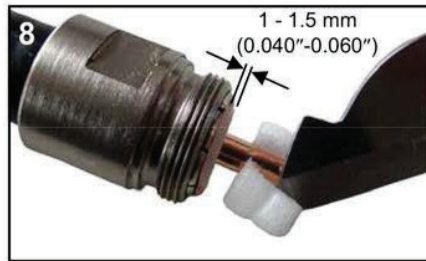
MANUAL METHOD



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1/2" - Straight & right angle connectors - O-Ring type



For installation on aluminium cable 5127/EA4-50 in a corrosive environment, an additional sealing is mandatory. It can be achieved with one of the following methods:

Weatherproofing Tape Kit



Eucaseal



Cold Shrink Tube





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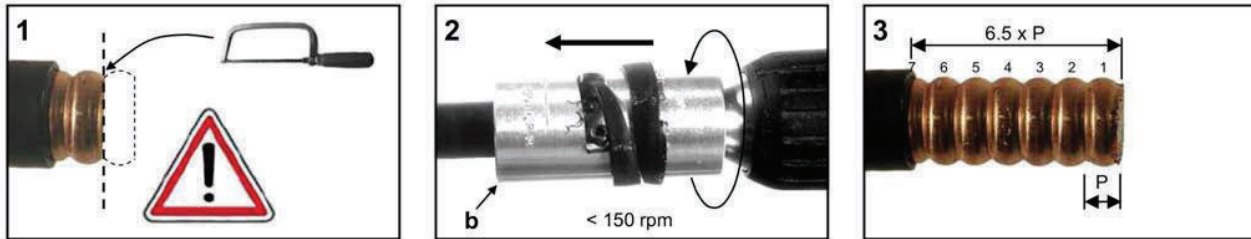
SPTC 50 AV 1/2



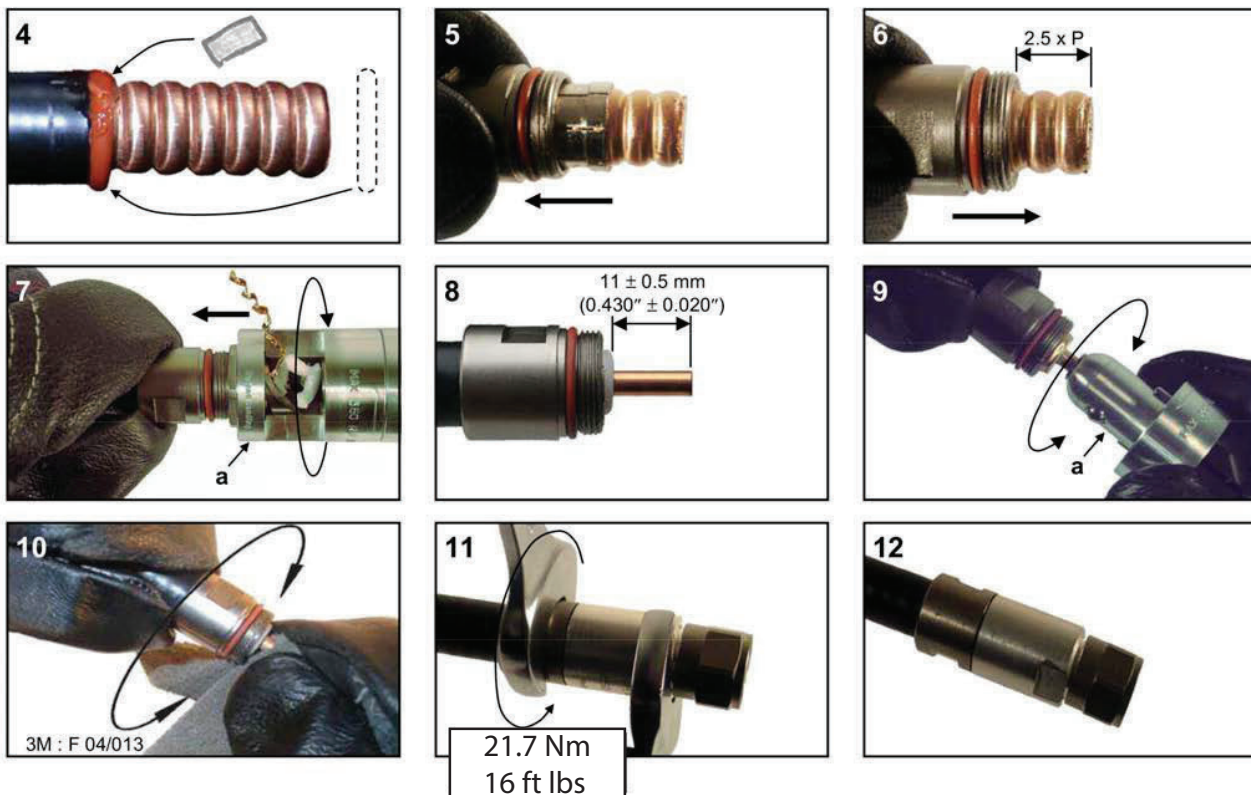
for cables EC4-50 (5128) and EA4-50 (5127)

	NF, NM	NM50VL12	4.3/10M N1	7/16M N1	7/16MVL12	7/16F N1 4.3/10F N1	EIA
	2 x 19 mm	19 mm & 23 mm	19 mm & 21 mm & 22 mm	19 mm & 21 mm & 32 mm	19 mm & 24 mm & 32 mm	19 mm & 21 mm	2 x 10 mm & 19 mm & 24 mm

PREPARATION TOOL METHOD



O-RING CONNECTORS



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For the installation on cable 5127/EA4-50, an additional sealing is mandatory. It can be achieved with one of the following methods:

Weatherproofing Tape Kit



Eucaseal



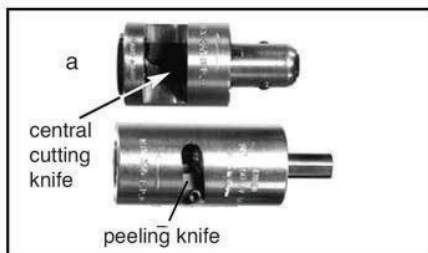
Cold Shrink Tube



Order code for the tool and replacement parts

Code de l'outil et des pièces de rechange

Bestelcode van het gereedschap en van zijn wisselstukken



Description Description Beschrijving	Reference Référence Verwijzing	Part# Code# Bestel#
Tool - 1/2"	SPTC50AV12	A032 996
Cutting tool (a)*	CFT50AV12	F933 996
Central cutting knife**		A257 996
Peeling knife		A256 996

* complete front part including central cutting knife

** delivered with instructions for knife replacement



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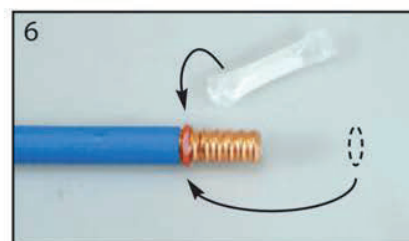
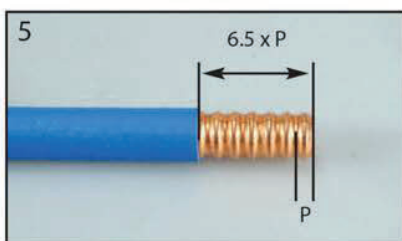
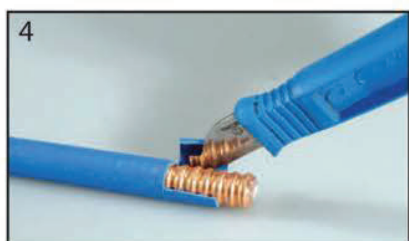
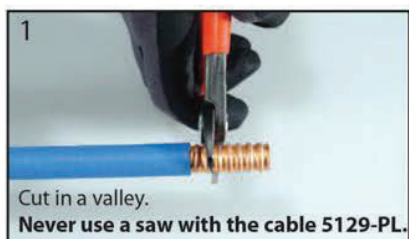
1/2" - Straight & right angle connectors - O-Ring type Installation on Plenum cable 5129-PL (EC4-50-PL)



Procedure for manual installation



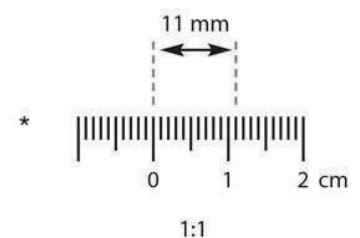
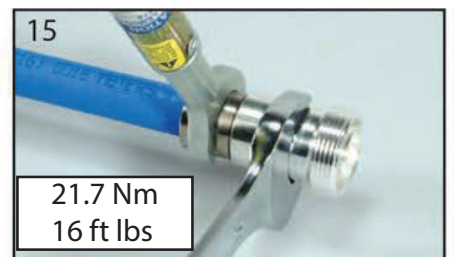
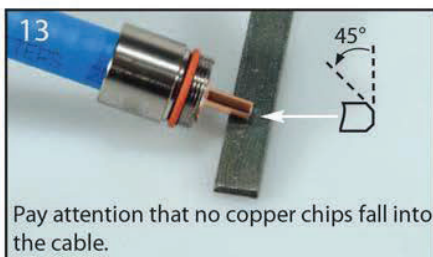
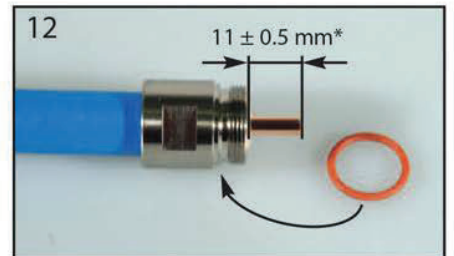
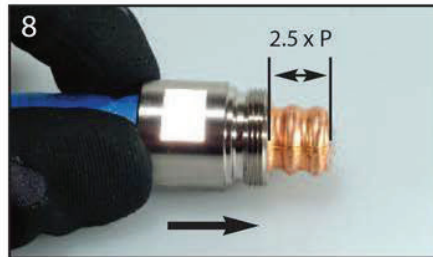
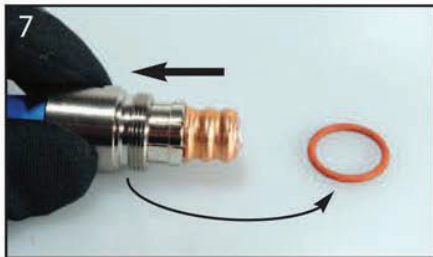
	NF, NM	NM50VL12	7/16M N1	7/16MVL12	7/16F N1	EIA
	2 x 19 mm	19 mm & 23 mm	19 mm & 21 mm & 32 mm	19 mm & 24 mm & 32 mm	19 mm & 21 mm	2 x 10 mm & 19 mm & 24 mm



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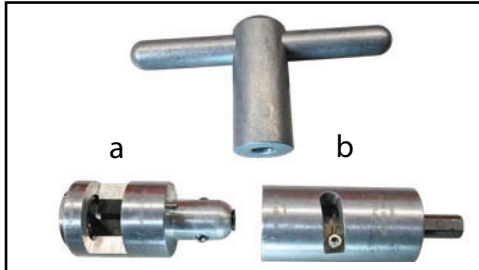
1/2" - Straight & right angle connectors - O-Ring type Installation on Plenum cable 5129-PL (EC4-50-PL)





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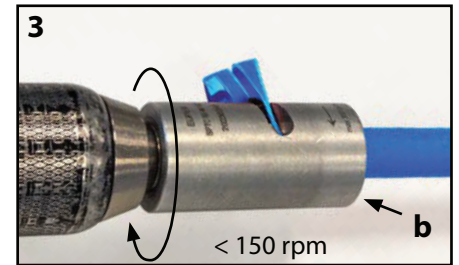
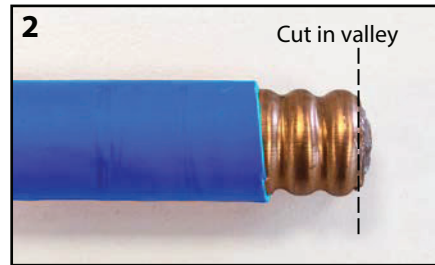
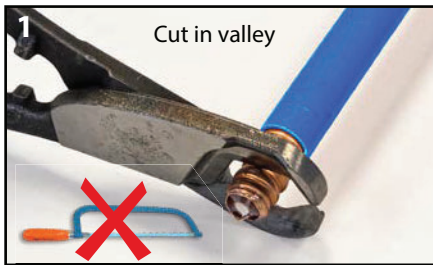
SPTC 50 AV 1/2 for EUPEN 5129-PL



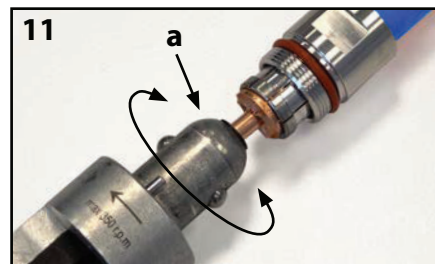
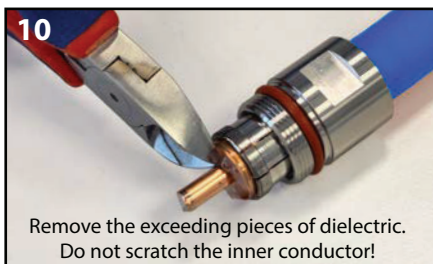
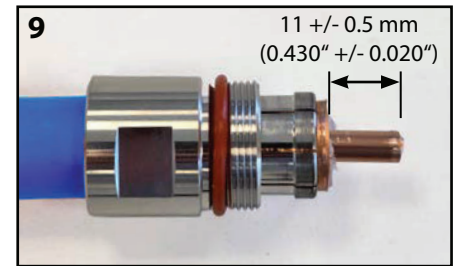
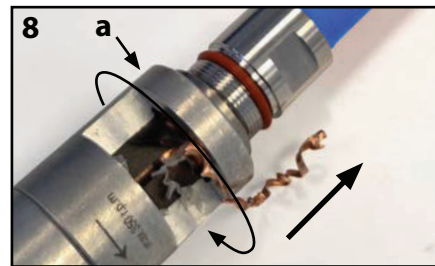
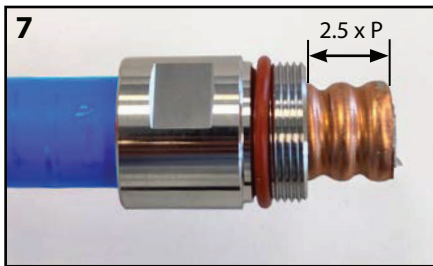
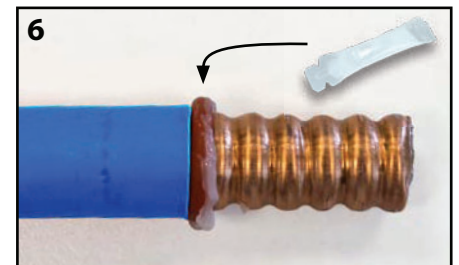
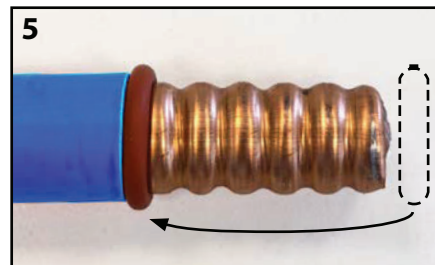
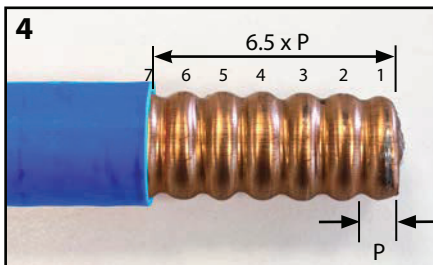
for EC4-50-PL (5129 - PL)

	NF, NM	NM50VL12	4.1/9.5M	4.3/10M N1	7/16M N1	43MVL12	7/16MVL12	7/16F N1 4.3/10F N1
	2 x 19 mm	19 mm & 23 mm	2 x 19 mm & 22 mm	19 mm & 21 mm & 22 mm	19 mm & 21 mm & 32 mm	19 mm & 22 mm	19 mm & 24 mm & 32 mm	19 mm & 21 mm

PREPARATION TOOL METHOD



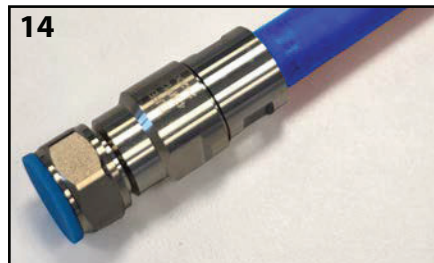
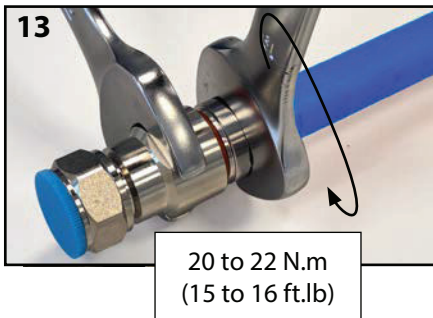
O-RING CONNECTORS



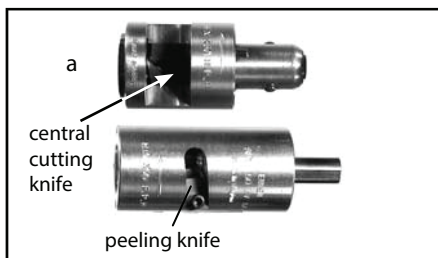
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SPTC 50 AV 1/2 for EUPEN 5129-PL



Order code for the tool and replacement parts



Description	Reference	Part#
Tool - 1/2"	SPTC50AV12	U343 996
Central cutting knife*		A257 996
Peeling knife		A256 996

* delivered with instructions for knife replacement



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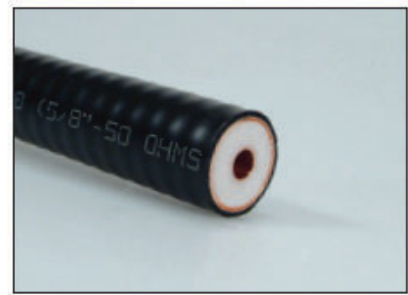
5/8" Connectors - O-Ring type



NF50V58



NM50V58



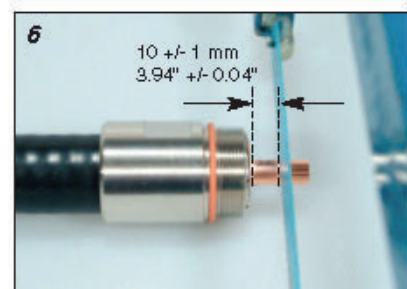
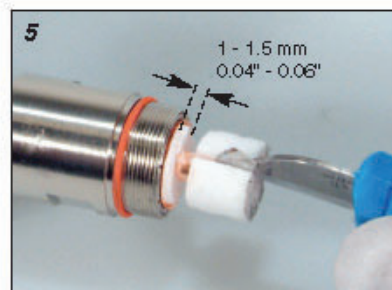
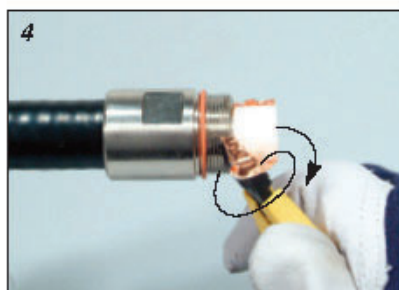
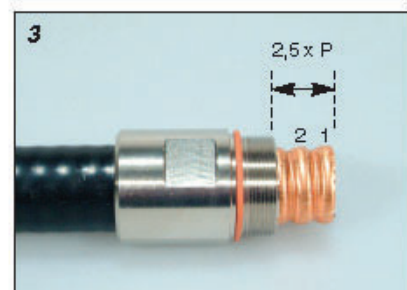
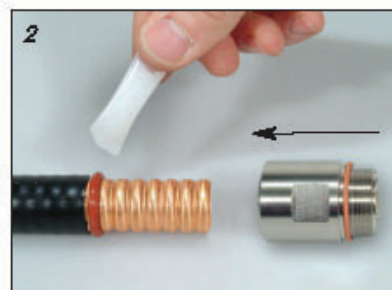
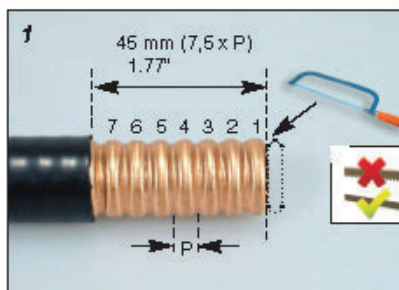
5/8"



Vaseline
Vaselina

26 mm (1.024")

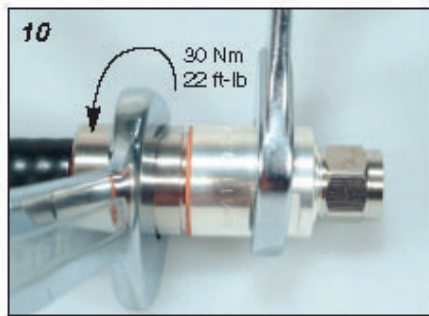
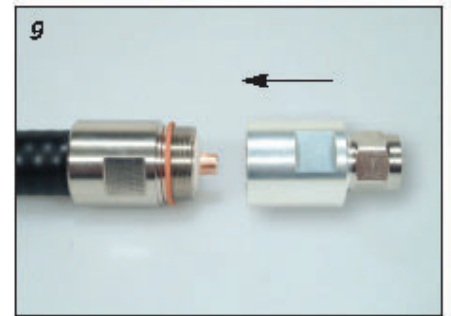
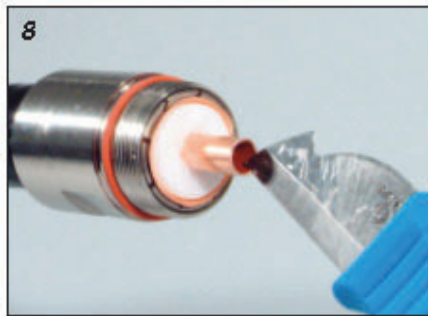
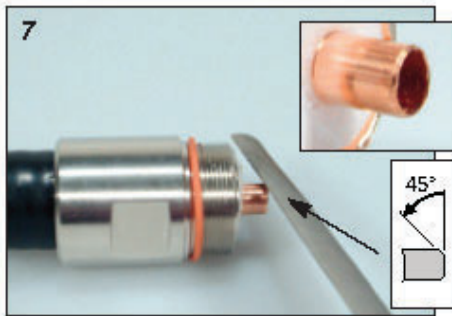
Manual method



INNOVATION & TRADITION

100 Years of Cable Manufacturing

5/8" Connectors - O-Ring type





EUPEN Cable USA

SPTC 50 V 58



for cable EC4.5-50 (5168)

Required equipment



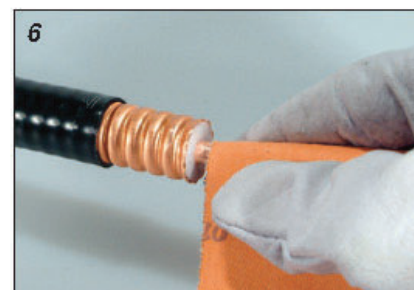
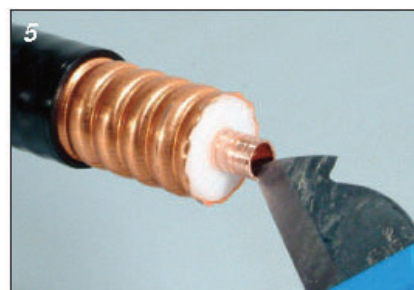
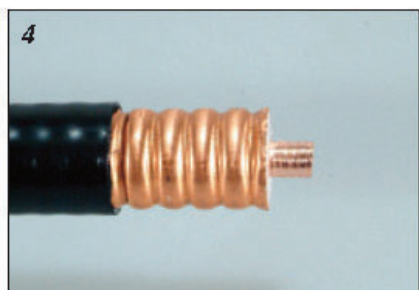
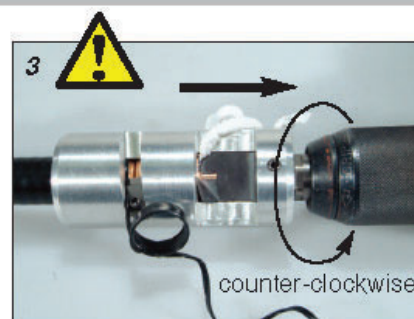
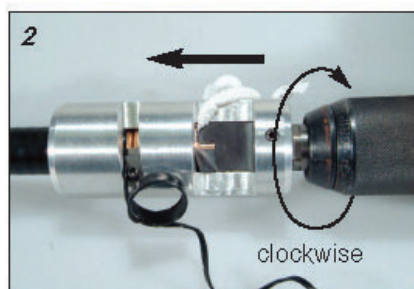
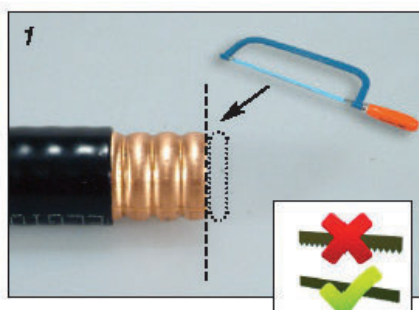
Vaseline
Vaselina



5/8"
26 mm
(1,024")

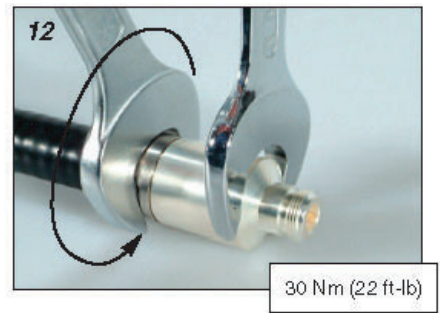
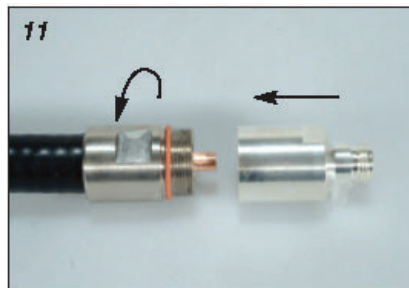
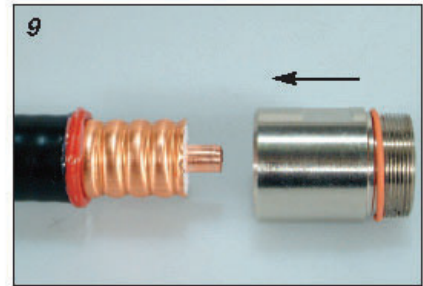
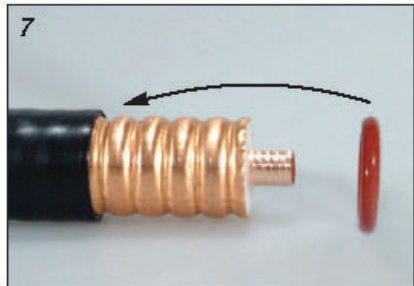
NM
19 mm
(3/4")

Instruction process



INNOVATION & TRADITION

100 Years of Cable Manufacturing





EUPEN Cable USA

7/8", 1-1/4" & 1-5/8" Connectors - N1 (O-ring)



Cable	Preparation tool
 5228A / EC5-50-A (7/8") 5227 / EA5-50 (7/8" Alu)	 SPTC50AV78M / US: F-78
5328A / EC6-50-A (1-1/4") 5327 / EA6-50 (1-1/4" Alu)	SPTC50AV114M / US: F-114
5328X / EC6-50-HF (1-1/4" Hiflex)	SPTC50AV114X
5438A / EC7-50-A (1-5/8")	SPTC50AV158M / US: F-158
5437 / EA7-50 (1-5/8" Alu)	

We strongly advise the use of cable preparation tools. Please refer to their instructions for use.

Manual method

Follow the instruction process below only if the cable preparation tools are not available.



Vaseline
Vaselina



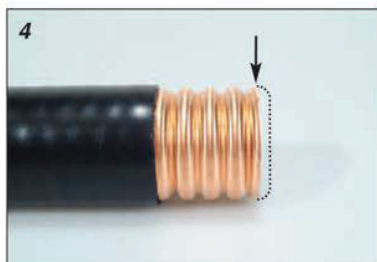
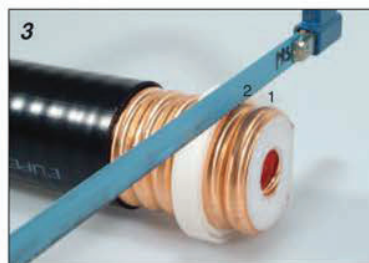
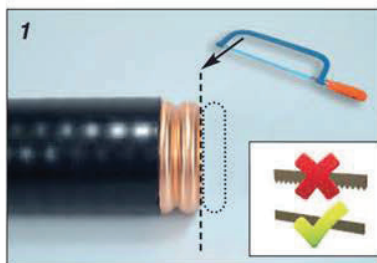
Guide-scie
Saw-guide
Sägeführung



Mastic tape*

* A Butyl mastic tape is available in our Weatherproofing Tape Kit (ref. 2849996)

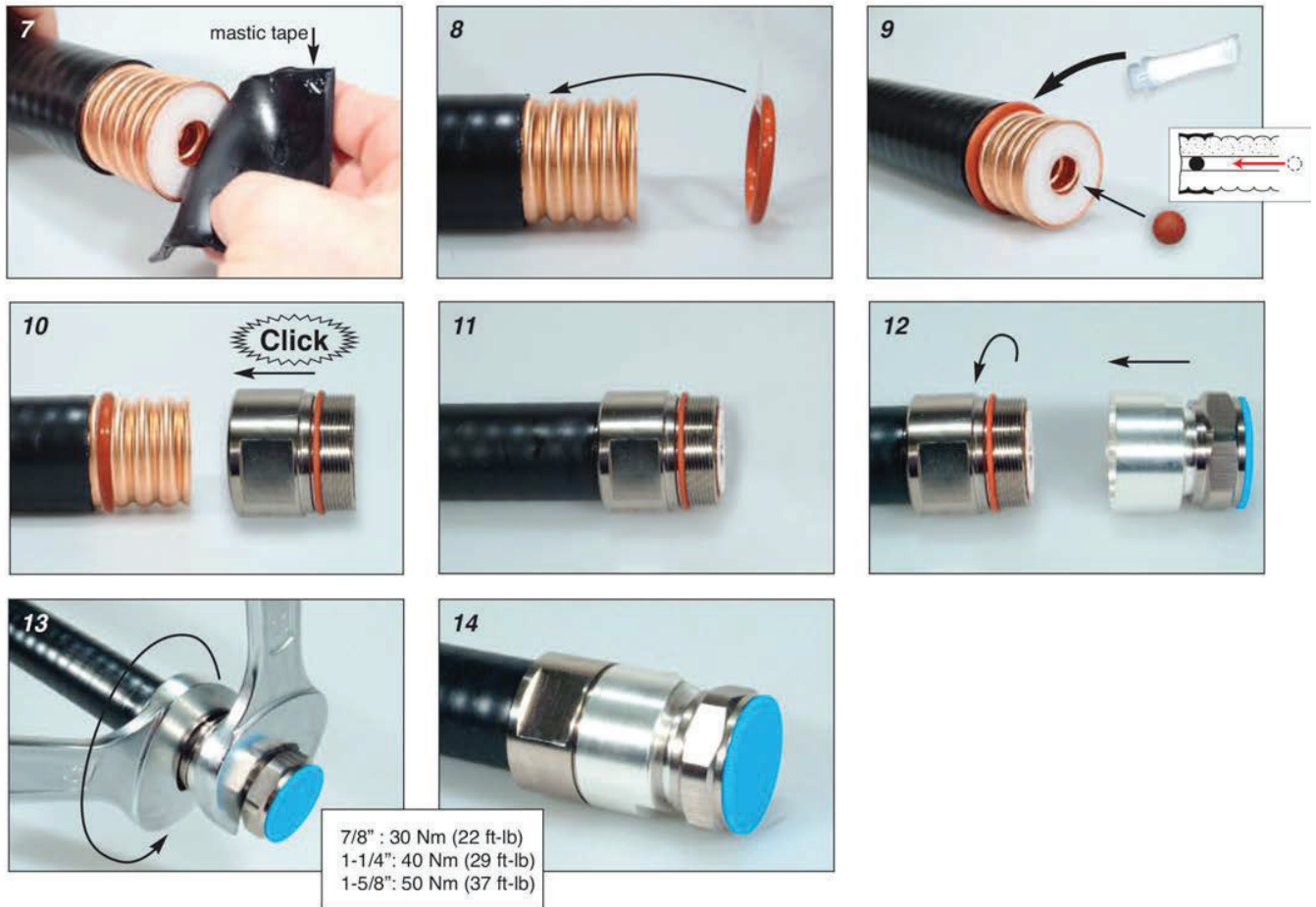
	NM	7/16M	7/8"	1 1/4"	1 5/8"
	19 mm	32 mm	 30 mm	 1-11/16" /  48 mm	 2-1/4" /  63 mm



INNOVATION & TRADITION

100 Years of Cable Manufacturing

7/8", 1-1/4" & 1-5/8" Connectors - N1 (O-ring)



For the installation on aluminium cables 5227/EA5-50, 5327/EA6-50 and 5437/EA7-50 in a corrosive environment, an additional sealing is mandatory. It can be achieved with one of the following methods:

Weatherproofing Tape Kit



Eucaseal



Cold Shrink Tube





EUPEN Cable USA

F-Series Cable Prep Tool Instructions



The Eupen F-Series Tool is a dual function, drill-mounted cable prep tool designed for use with Eupen MonoBlock connectors and Eupen feeder cable.

ATTENTION: Safety glasses and gloves should be worn at all times when operating drill-mounted tools. Always use tools in accordance with safety procedures and only for the intended purpose. Your safety program should include but should not be limited to standards of OSHA, NEC and NESC.

1. Begin with a STRAIGHT section of cable cut in the valley of corrugation for best results.
2. With the Jacket Cutter attached to the Trim Head, use a drill to turn the F-Series Tool onto the cable clockwise at low rpm.

Push slightly while the jacket is being cut until the tool stops forward travel and spins freely.

3. Remove tool from cable.
Note: Outer jacket should be cut to peak of corrugation.

- 4A. Install O-ring in the valley next to the jacket cut.
- 4B. Install silicone rubber ball inside inner conductor. Apply grease as per connector instructions.

5. Install rear portion of connector over the O-ring, then pull forward so that the forward edge of the connector is covering the spring fingers and aligned over the corrugation peak.



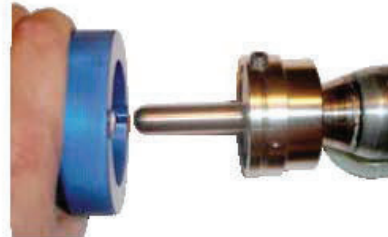
INNOVATION & TRADITION

100 Years of Cable Manufacturing

F-Series Cable Prep Tool Instructions

(continued)

6. Remove Jacket Cutter from Trim Head.
(Hold Jacket Cutter firmly. Lift locking pin and separate from Trim Head).



7. Using drill turning clockwise on low RPM.
Cut the end of the cable with the Trim Head.

The Trim Head will spin freely and bottom out on the connector body when the cut is complete.



LOW SPEED – CLOCKWISE



8. Complete connector installation as per connector instructions.



REPLACEMENT PARTS

	F-78	F-114	F-158
Jacket Cutter Assembly	F-78-JCA	F-114-JCA	F-158-JCA
Trim Head Assembly	F-78-THA	F-114-THA	F-158-THA
Jacket Cutter Blade	SPB09	SPB12	SPB10
Trim Head Blade	SPB14	SPB14	SPB11
Pilot Pin	SPB03PP	SPB05PP	SPB01PP



EUPEN Cable USA

1/2" EIA connectors EIA78V12N



EIA78V12N



EIA78CH = coupling hardware (sold separately)

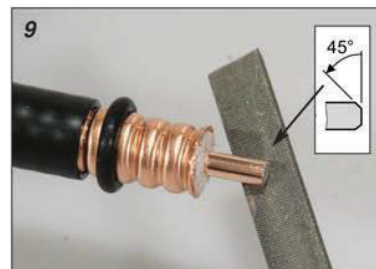
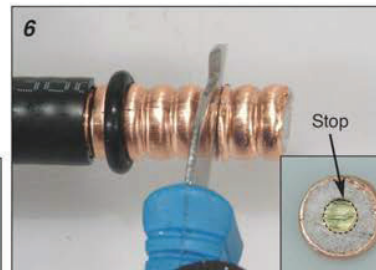
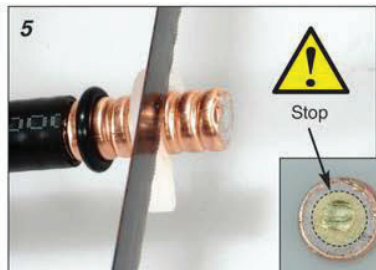
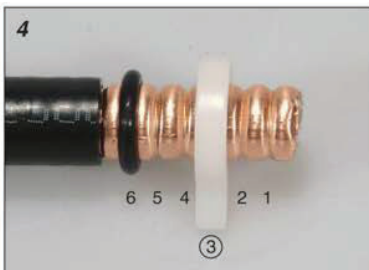
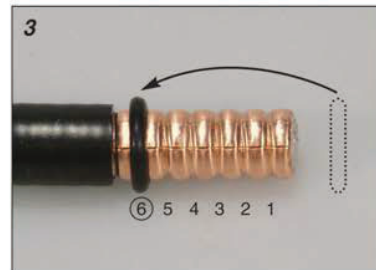
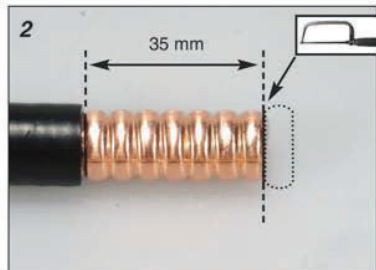
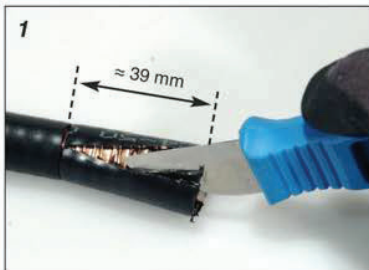


EC4-50 (5128)

EIA
19 mm & 21 mm



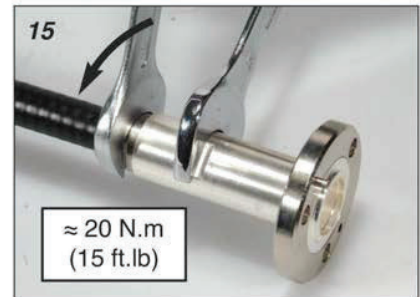
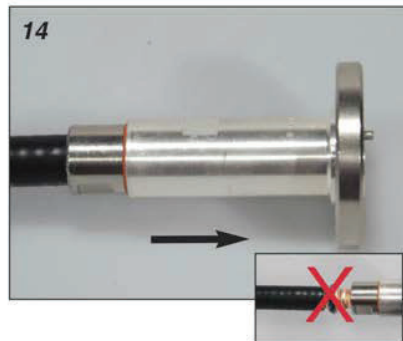
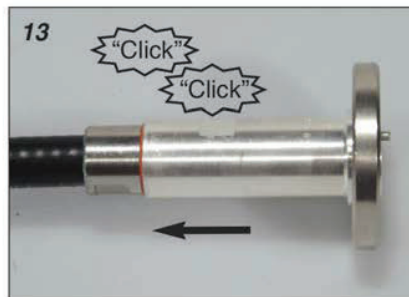
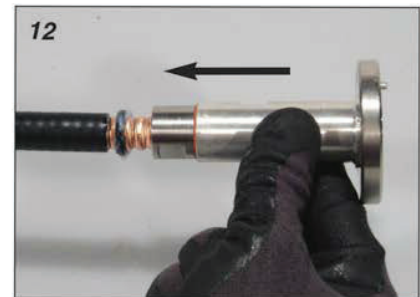
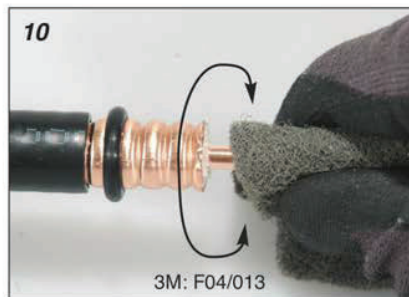
Manual method



INNOVATION & TRADITION

100 Years of Cable Manufacturing

1/2" EIA connectors EIA78V12N





EUPEN Cable USA

EIA connectors for cables 7/8" to 1-5/8"



EIA78V78N



EIA78V114N



EIA78V158N



EIA158V158N

Coupling hardware
(sold separately):



EIA78CH
(for interface EIA 7/8")



EIA158CH
(for interface EIA 1-5/8")

	
7/8"	EC5-50-A (5228 A)
1-1/4"	EC6-50-A (5328 A)
1-5/8"	EC7-50-A (5438 A)





Vaseline



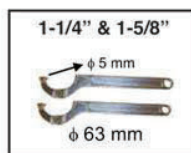
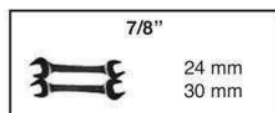



Mastic tape*



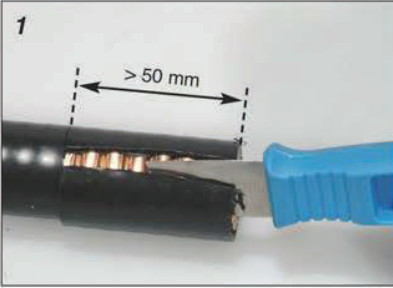
Saw-guide

* A Butyl mastic tape is available in our Weatherproofing Tape Kit (ref. 2849996)

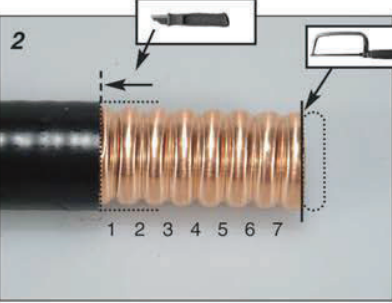


Manual method

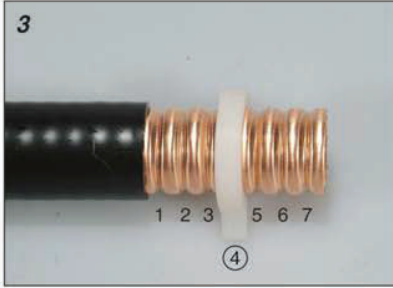
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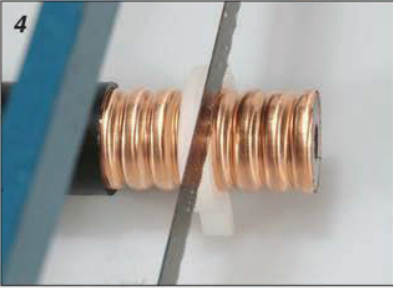
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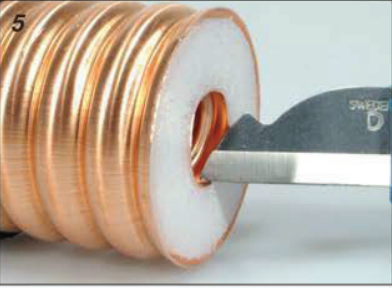
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4



5



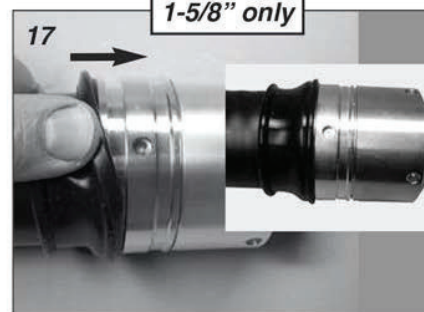
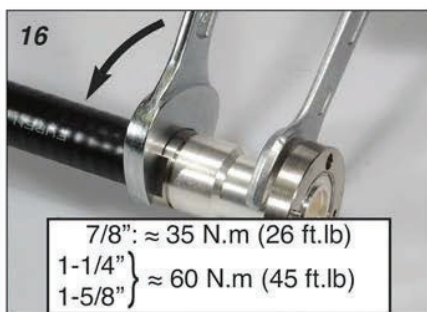
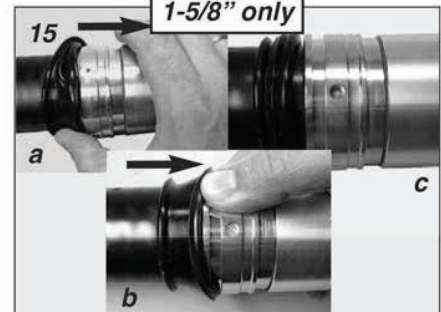
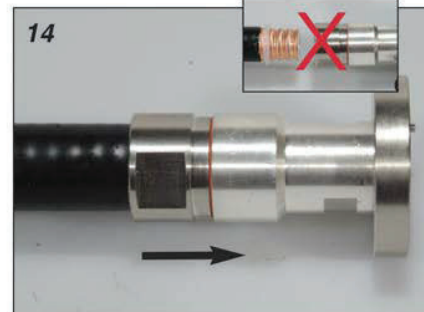
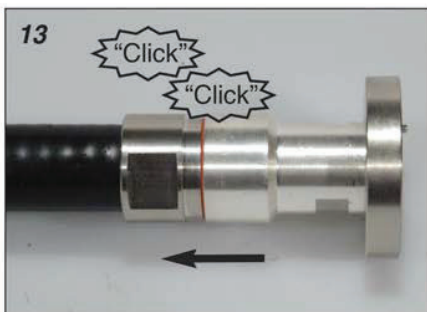
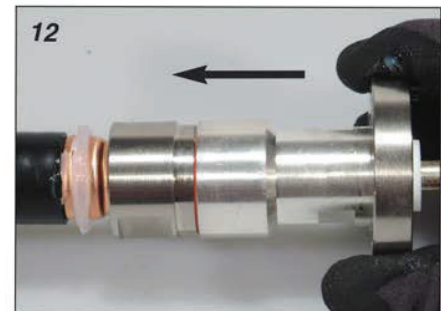
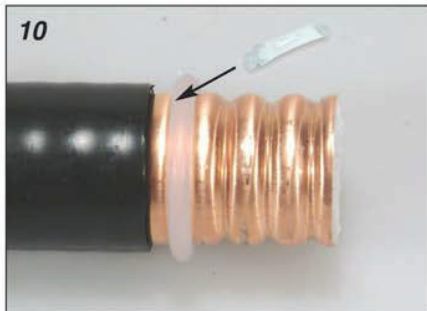
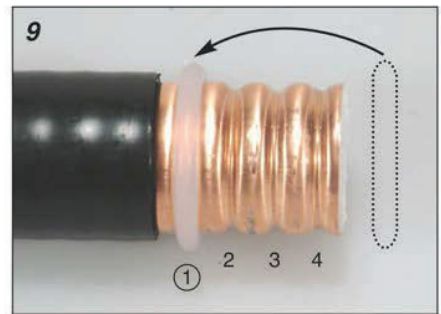
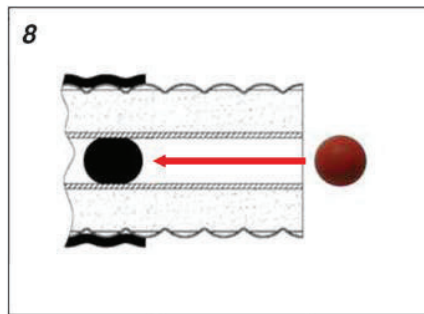
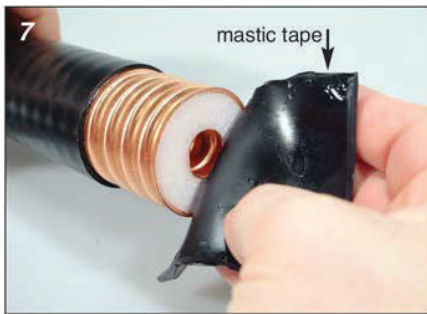
6



INNOVATION & TRADITION

100 Years of Cable Manufacturing

EIA connectors for cables 7/8" to 1-5/8"





EUPEN Cable USA

ELLIPTICAL WAVEGUIDE
Connector Installation Instructions

Elliptical Waveguide Connector Installation Instructions

SECTION 3

EU52

EU63

EU77

EU90

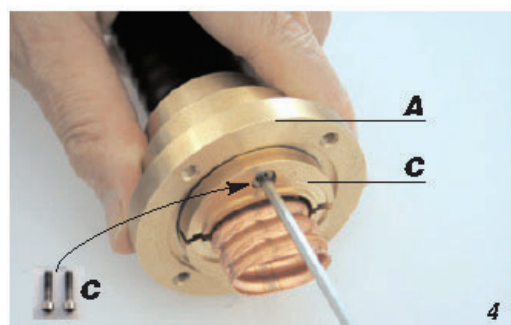
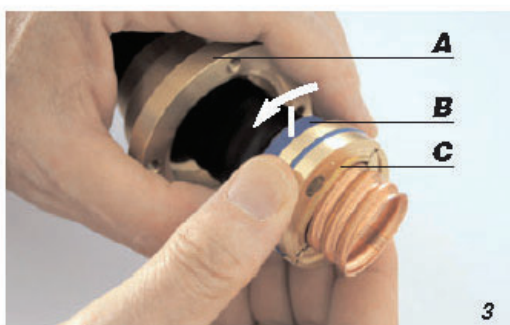
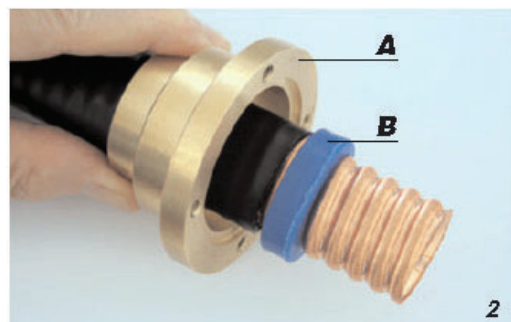
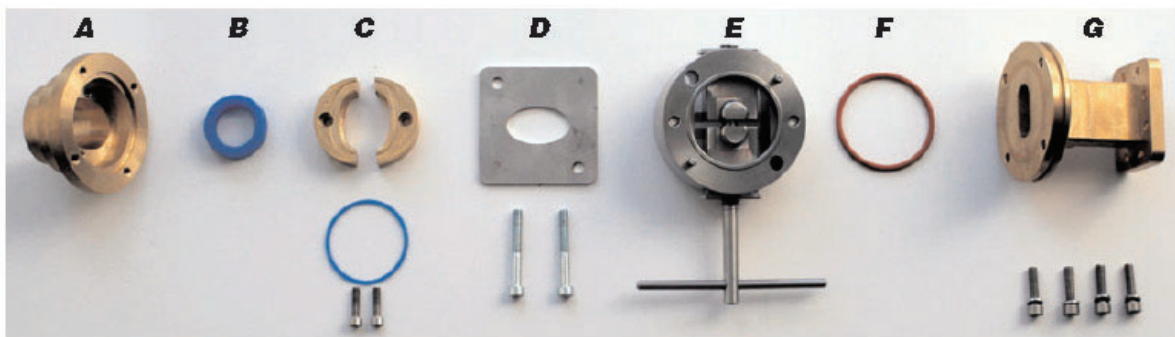
EU127



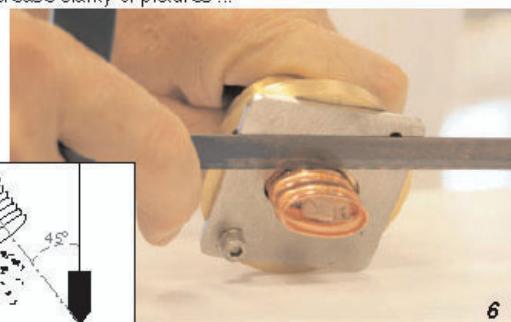
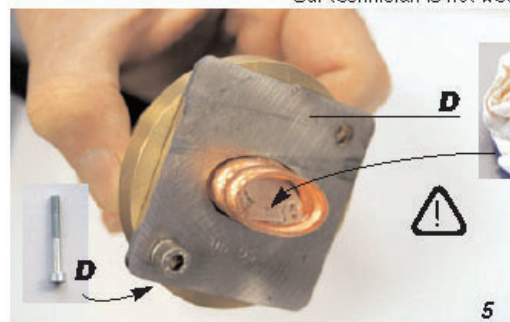
INNOVATION & TRADITION

100 Years of Cable Manufacturing

for Premium Waveguide Connectors with Profile Gasket



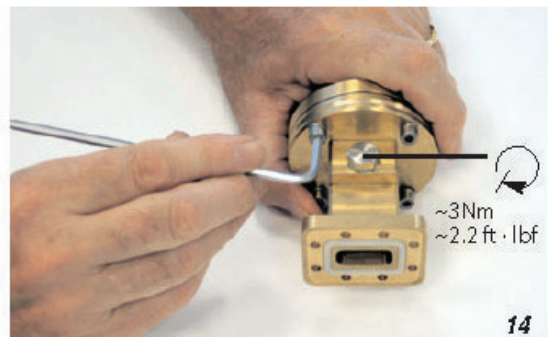
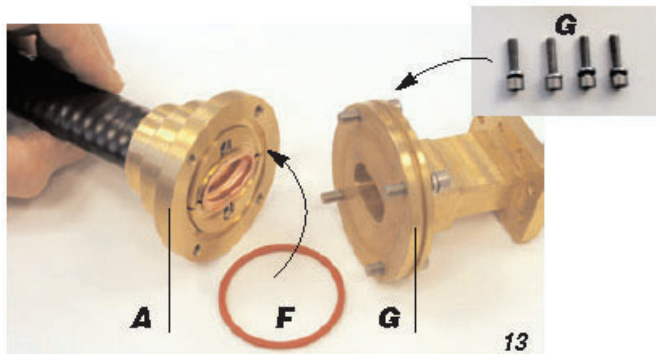
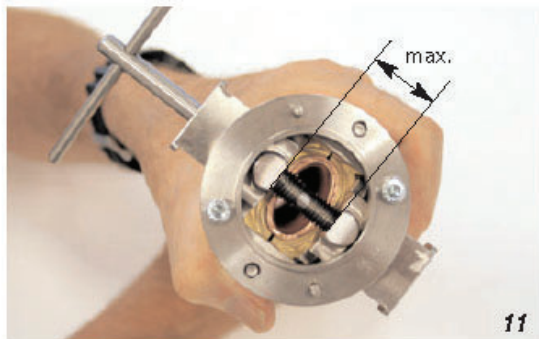
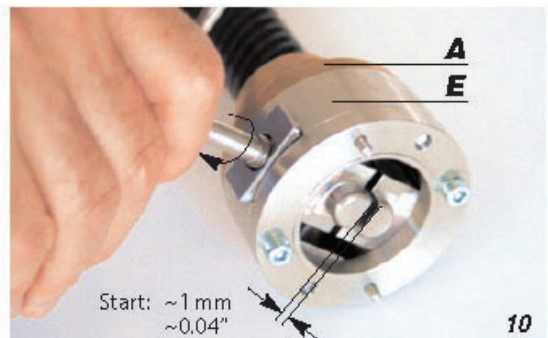
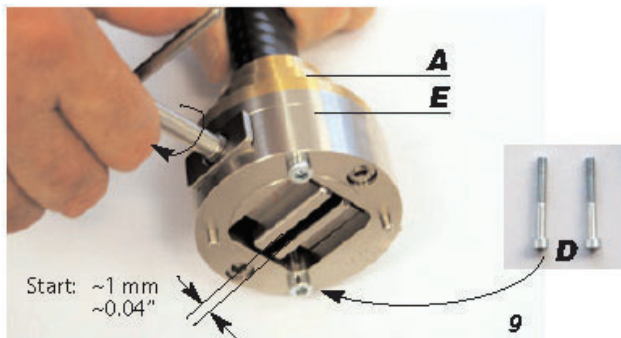
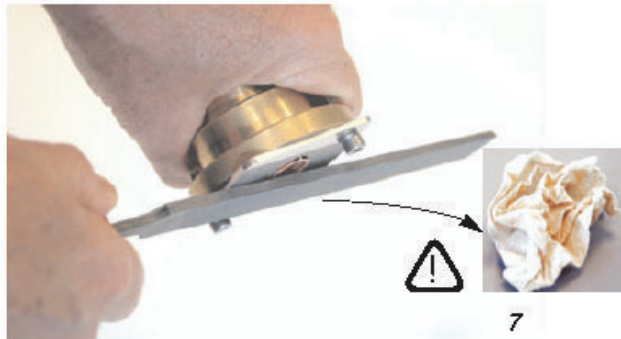
Our technician is not wearing gloves to increase clarity of pictures !!!





EUPEN Cable USA

for Premium Waveguide Connectors with Profile Gasket



For outdoor application apply tape and/or shrinkboot

INNOVATION & TRADITION

100 Years of Cable Manufacturing

Radiating Connector Installation Instruction Sheets

SECTION 4

1/2" Radiating

5/8" Radiating

7/8" Radiating

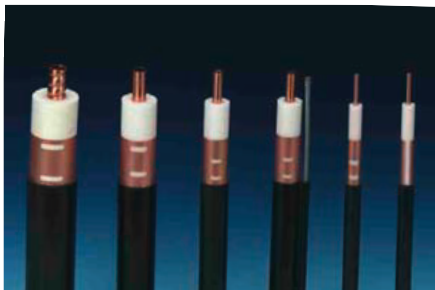
1-1/4" Radiating

1-5/8" Radiating

RC-400 Radiating

**For more information on Eupen Radiating Products
please contact your Eupen Sales Representative
and also check out our Radiating web site at**

www.radiating-cables.com





EUPEN Cable USA

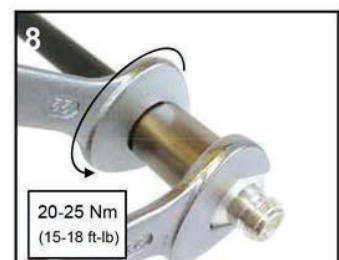
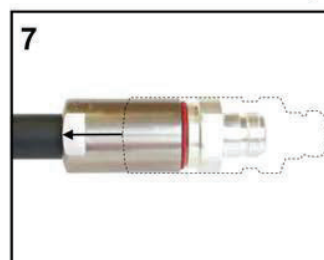
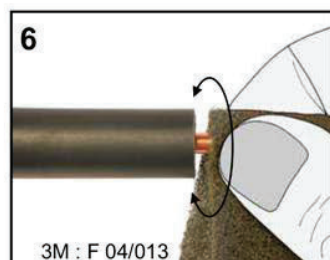
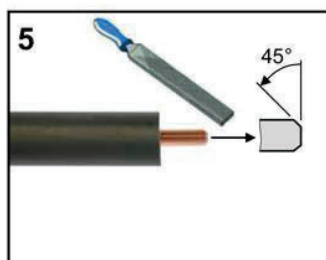
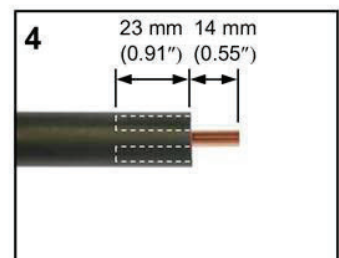
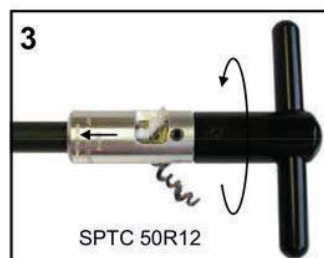
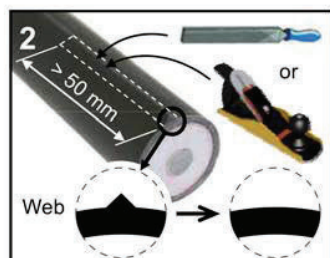
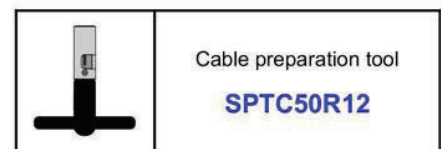
RADIATING CONNECTOR

Installation Instruction Sheets

Connectors for 1/2" Radiating Cables



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



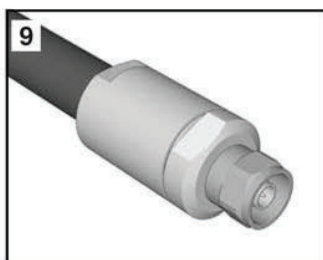
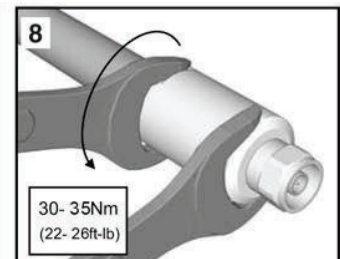
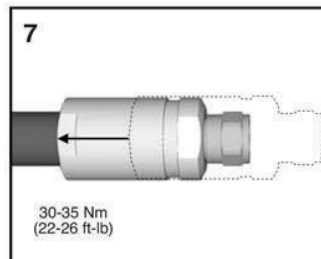
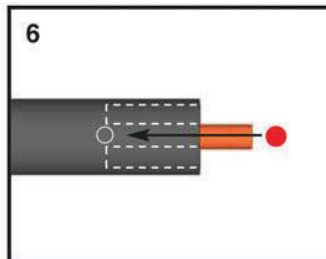
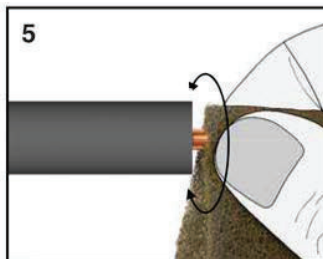
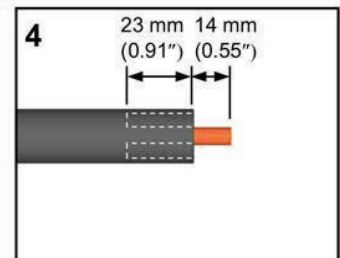
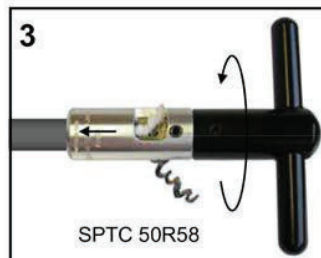
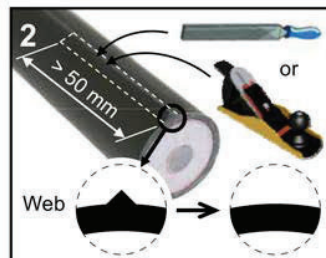
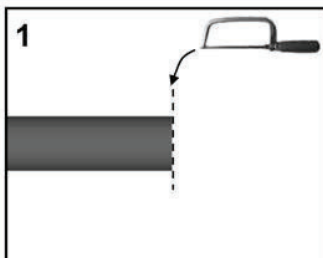
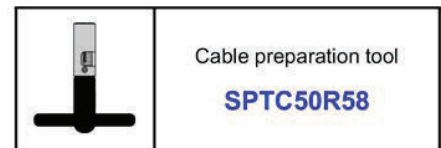
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Connectors for 5/8" Radiating Cables



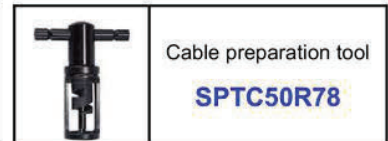
	NM	7-16F/NF
	2 x 28 mm & 19 mm	2 x 28 mm



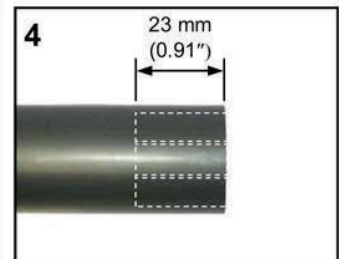
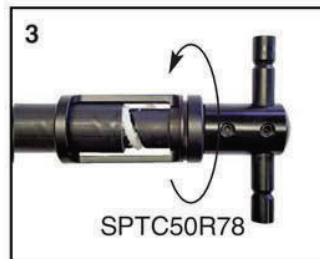
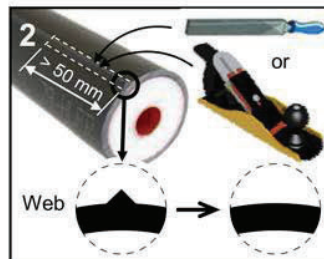


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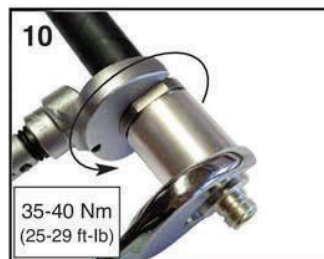
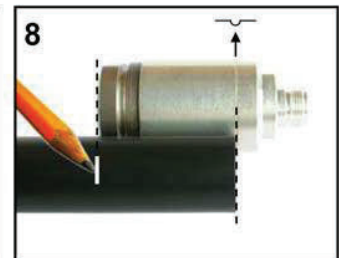
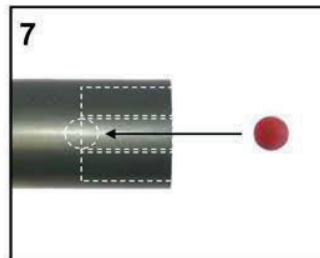
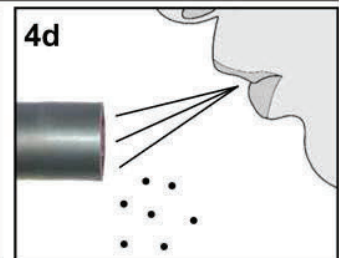
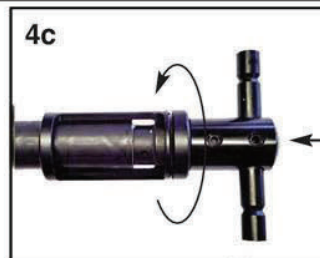
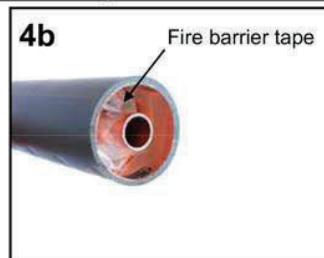
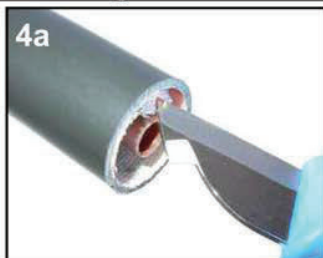
Connectors for 7/8" Radiating Cables



	NF, 7-16F	NM	7-16M
 ø 52 mm	2 x 34 mm	2 x 34 mm & 19 mm	2 x 34 mm & 32 mm



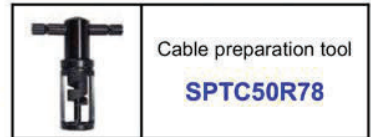
Radiating cables with fire barrier tape



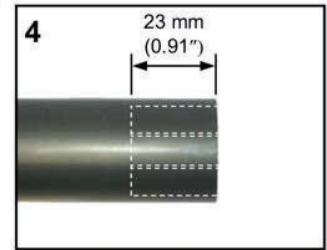
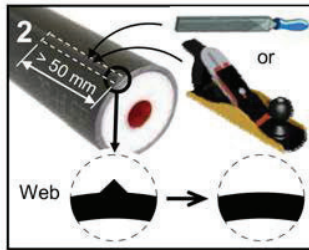
INNOVATION & TRADITION

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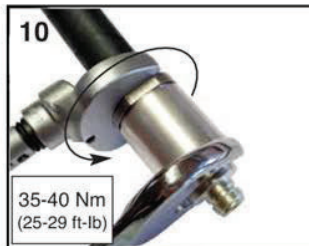
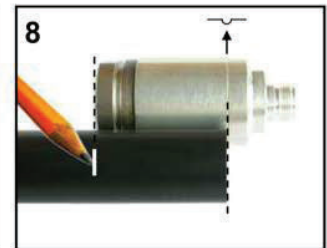
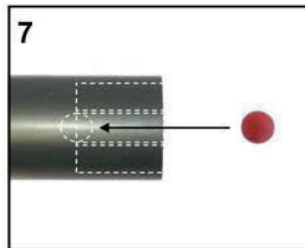
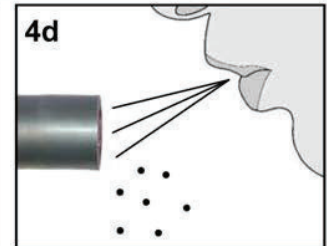
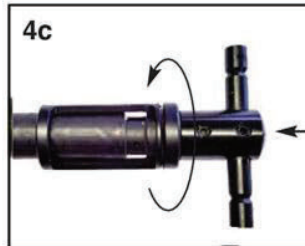
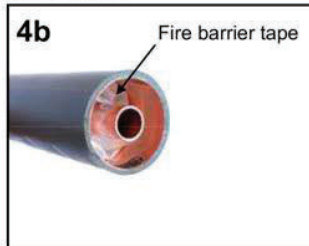
Connectors for 7/8" HLFRC & HLFRU Radiating Cables



	NF, 7-16F	NM	7-16M
 ϕ 52 mm	2 x 34 mm	2 x 34 mm & 19 mm	2 x 34 mm & 32 mm



Radiating cables with fire barrier tape

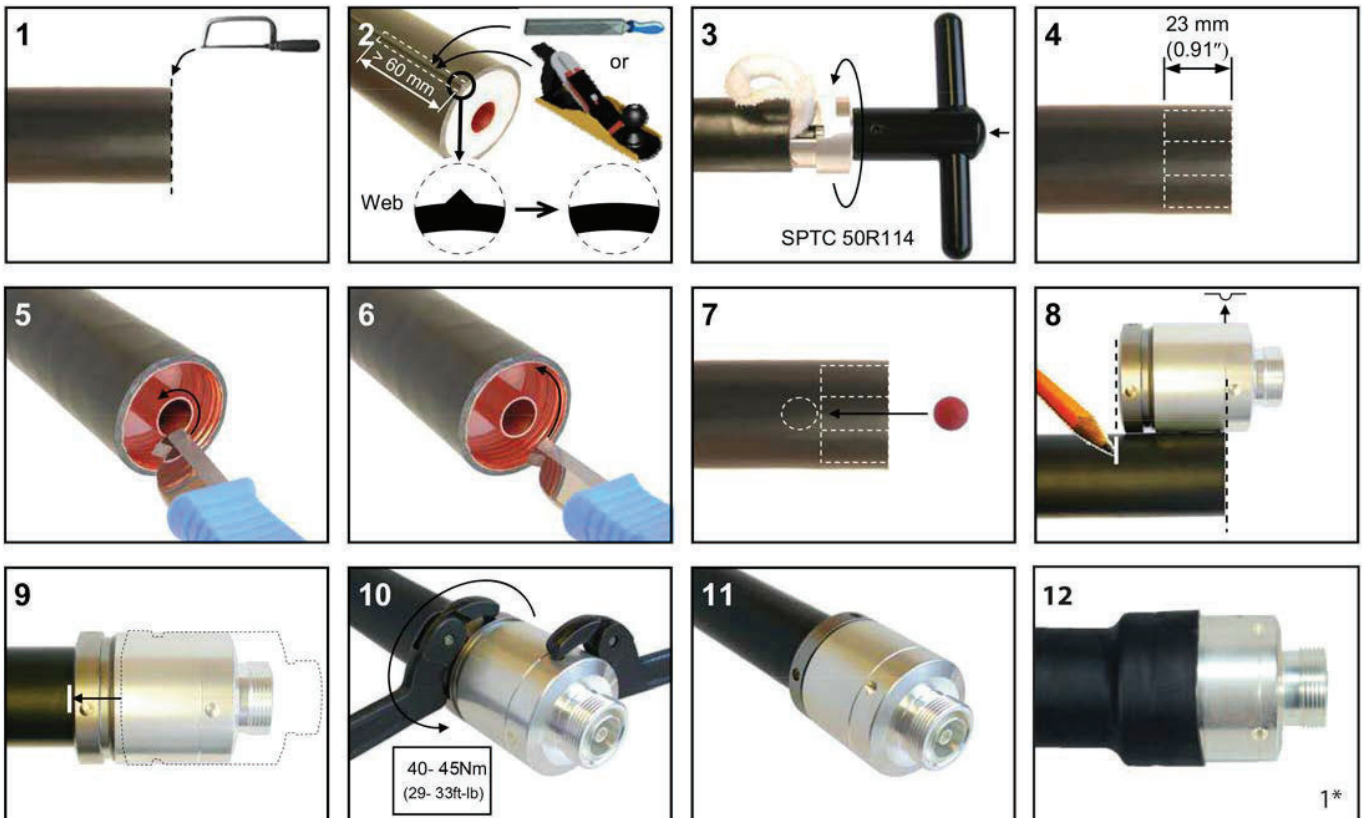
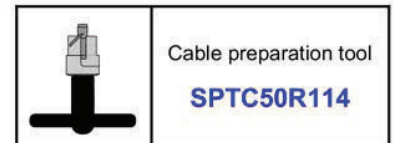
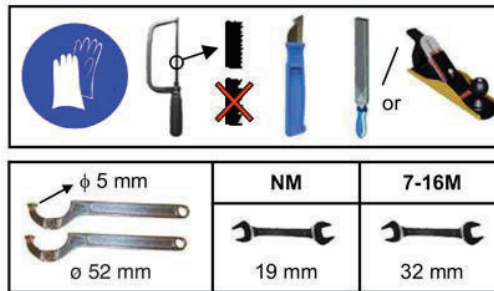


1* For installations in harsh environments, the use of an optional Heat-Shrink is recommended.



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Connectors for 1-1/4" Radiating Cables

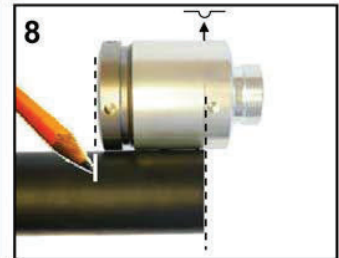
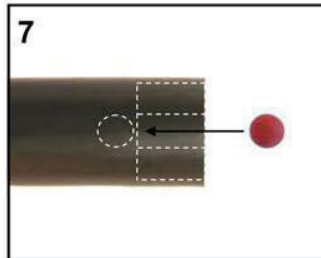
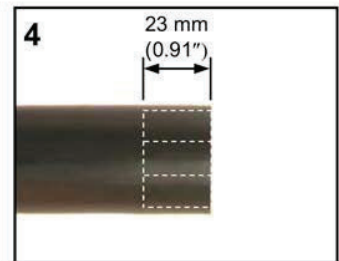
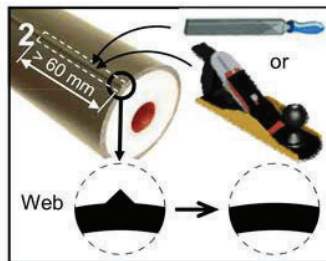
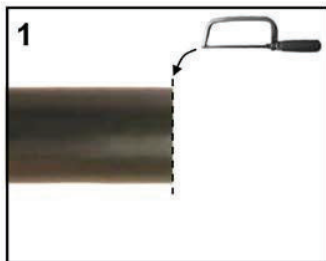
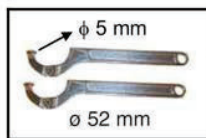
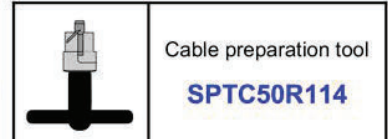


1* For installations in harsh environments, the use of an optional Heat-Shrink is recommended.

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Connectors for 1-1/4" HLFRL Radiating Cables

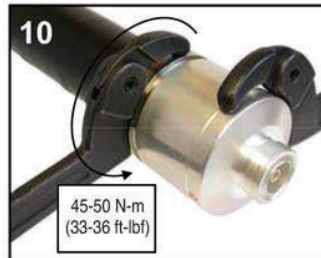
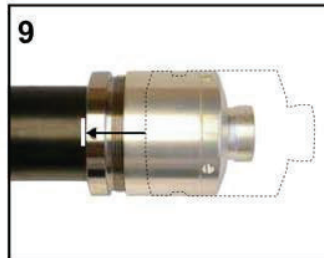
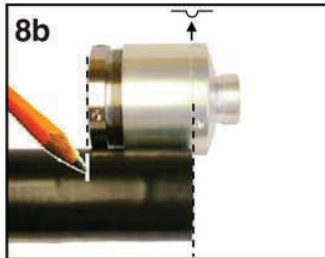
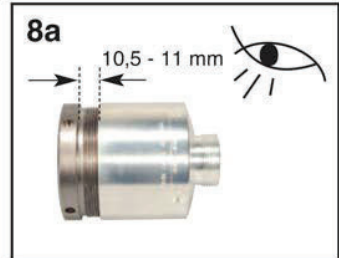
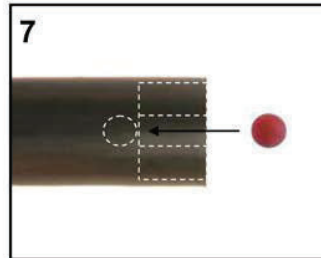
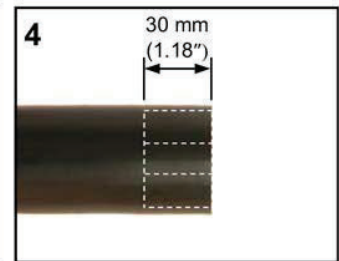
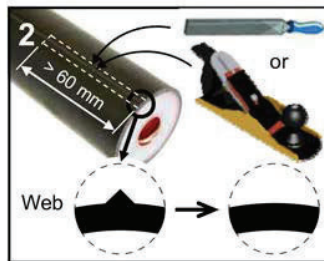
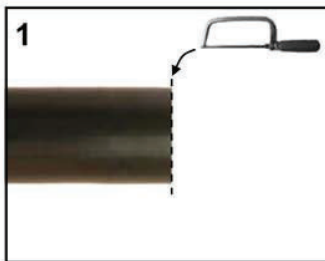
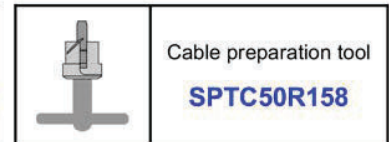
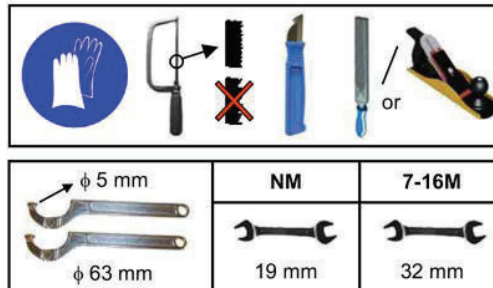


1* For installations in harsh environments, the use of an optional Heat-Shrink is recommended.



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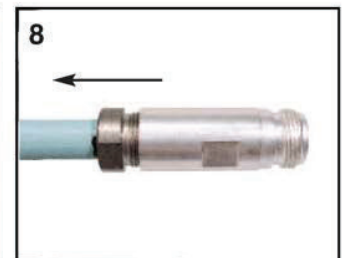
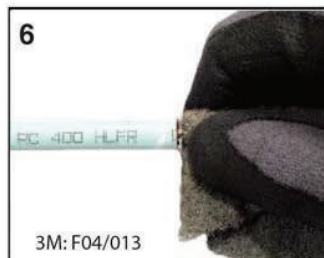
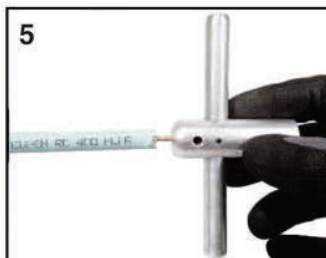
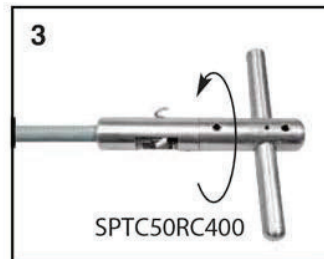
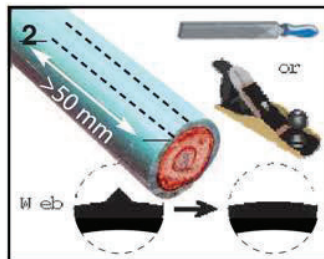
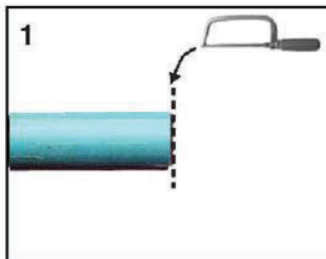
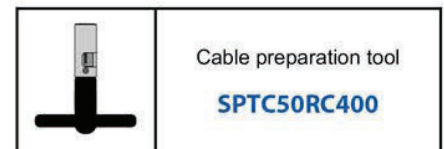
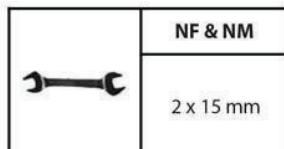
Connectors for 1-5/8" Radiating Cables



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Connectors for RC-400 Radiating Cable



1* For installations in harsh environments, the use of an optional Heat-Shrink is recommended.



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Reference Sheets

SECTION 4

Cable/Connector Reference Sheet
Jumper Part Number Description
Prep Tool Selection Guide



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CABLE PART NUMBER	SIZE	CONNECTOR TYPE	TOOL PART NUMBER
EC1-50-HF	1/4" Hiflex	Hiflex	SPTC50B14X
EC4-50-HF	1/2" Hiflex	Hiflex	SPTC50B12X
		Rt Angle Hiflex	SPTC50BL12X
EC1-50	1/4"	Standard	SPTC50AV14
EC4-50	1/2"	Standard	SPTC50AV12
		Rt Angle Standard	
EC4-50-PL	1/2" Plenum	Standard	SPTC50AV12 or SPTC50AV12F
		Rt Angle Standard	
EC4.5-50	5/8"	Standard	SPTC50AV58
EC5-50-A	7/8"	N1	F-78
EC6-50-A	1-1/4"	N1	F-114
EC7-50-A	1-5/8"	N1	F-158



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