Raychem

RSTI-L5655

QTY 1 PC

3 SCREENED T-CONNECTORS FOR
PLASTIC INSULATED SINGLE CORE
CABLE UP TO 24 KV
DIA. OVER INSUL.: 21.2-34.6 MM
CROSS SECTION: 300 MM2

Made in GERMANY

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3	X	EXRM-1408-300-16	MECHANICAL LUG
1	X	EPPA-029-3-3000	STRING/WIRE
1	X	EPPA-038-3-1000	STRING/WIRE

CONTROL
252

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RPN : C53124-00036
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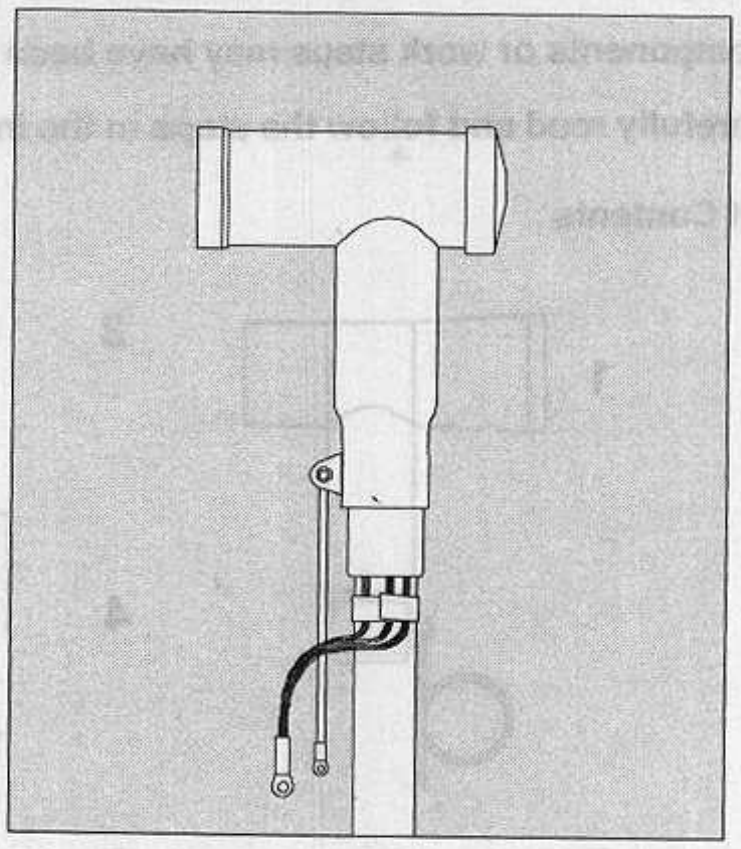
Energy Division

Tyco Electronics



Installation Instruction EPP-1054-4/04

Screened Separable Connector 630 A for Bushing Profile in Accordance to EN 50181, Type C and Single Core Polymeric Insulated Cable 12 to 24 kV

Type: RSTI-L56xx

Safety Warning
It is essential to observe the applicable safety regulations for working with high voltage equipment.
For precise safety information please contact the responsible authority.

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Before Starting

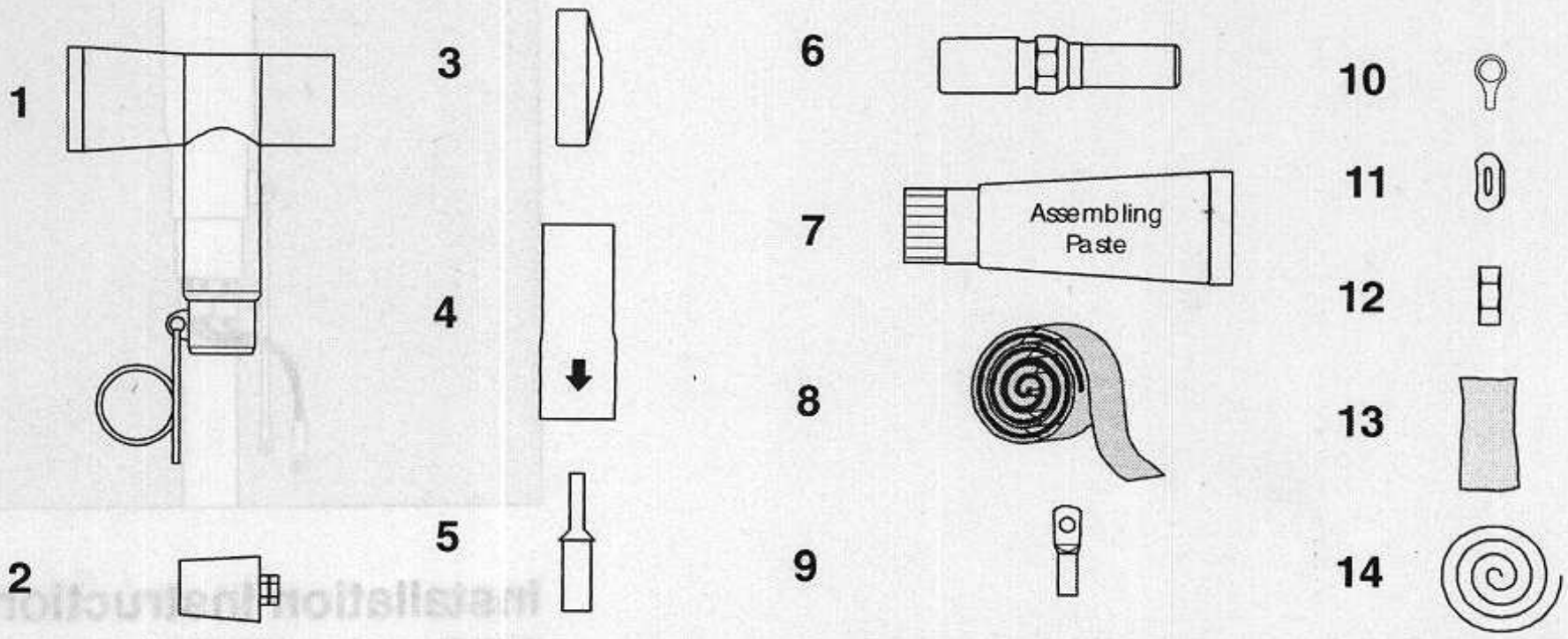
Check to ensure that the kit you are going to use fits the cable.

Refer to the kit label and the title of the installation instruction.

Components or work steps may have been improved since you last installed this product.

Carefully read and follow the steps in the installation instruction.

Kit Contents



1 3x Connector body
2 3x Back plug
3 3x Covering cap
4 3x Stress cone
5 3x Main cable lug
6 3x Threaded pin
7 1x Assembling paste
8 1x Sealing tape
9 3x Earth cable lug (16 + 25 mm^2)
10 3x Screen cable lug
11 3x Spring washer
12 3x Nut M12
13 3x Protective bag
14 1x Binding wire

Table 1

Cross Section	Ø Core Insulation 12 kV		Reference No.		Cross Section	Ø Core Insulation 24 kV		Reference No.	
mm²	min	max	Al	Cu	mm²	min	max	Al	Cu
25	12,7-25,0 mm		RSTI-L5610	RSTI-L5630	25	12,7-25,0 mm		RSTI-L5610	RSTI-L5630
35			RSTI-L5611	RSTI-L5631	35			RSTI-L5611	RSTI-L5631
50			RSTI-L5612	RSTI-L5632	50			RSTI-L5612	RSTI-L5632
70			RSTI-L5613	RSTI-L5633	70			RSTI-L5613	RSTI-L5633
95			RSTI-L5614	RSTI-L5634	95	21,2-34,6 mm		RSTI-L5624	RSTI-L5644
120			RSTI-L5615	RSTI-L5635	120			RSTI-L5625	RSTI-L5645
150	21,2-34,6 mm		RSTI-L5626	RSTI-L5646	150			RSTI-L5626	RSTI-L5646
185			RSTI-L5627	RSTI-L5647	185			RSTI-L5627	RSTI-L5647
240			RSTI-L5628	RSTI-L5648	240			RSTI-L5628	RSTI-L5648
300			RSTI-L5629	RSTI-L5649	300			RSTI-L5629	RSTI-L5649
35-95	12,7-25,0 mm		RSTI-L5651		35-70	12,7-25,0 mm		RSTI-L5651	
95-120			RSTI-L5652		–	–		–	
95-240	17,0-32,6 mm		RSTI-L5653		95-185	17,0-32,6 mm		RSTI-L5653	
150-240	21,2-34,6 mm		RSTI-L5654		95-240	21,2-34,6 mm		RSTI-L5654	
300			RSTI-L5655		300			RSTI-L5655	

The Information contained in these installation instructions is for use only by installers trained to make electrical power installations and is intended to describe the correct method of installation for this product. However, Tyco Electronics has no control over the field conditions which influence product installation. It is the user's responsibility to determine the suitability of the installation method in the user's field conditions. Tyco Electronics' only obligations are those in Tyco Electronics' standard Conditions of Sale for this product and in no case will Tyco Electronics be liable for any other incidental, indirect or consequential damages arising from the use or misuse of the products.
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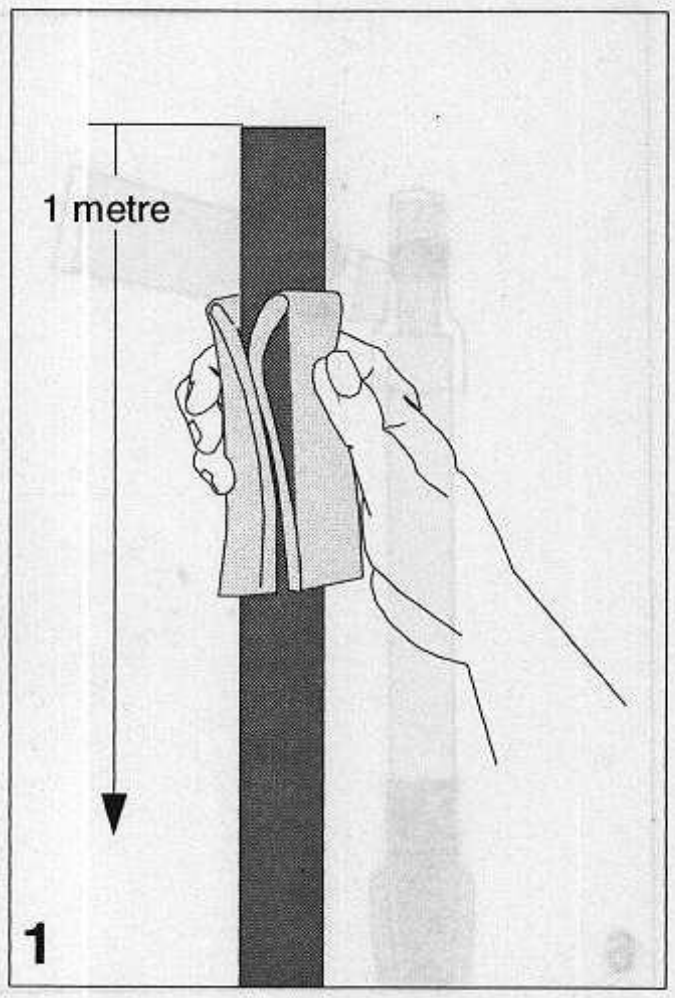
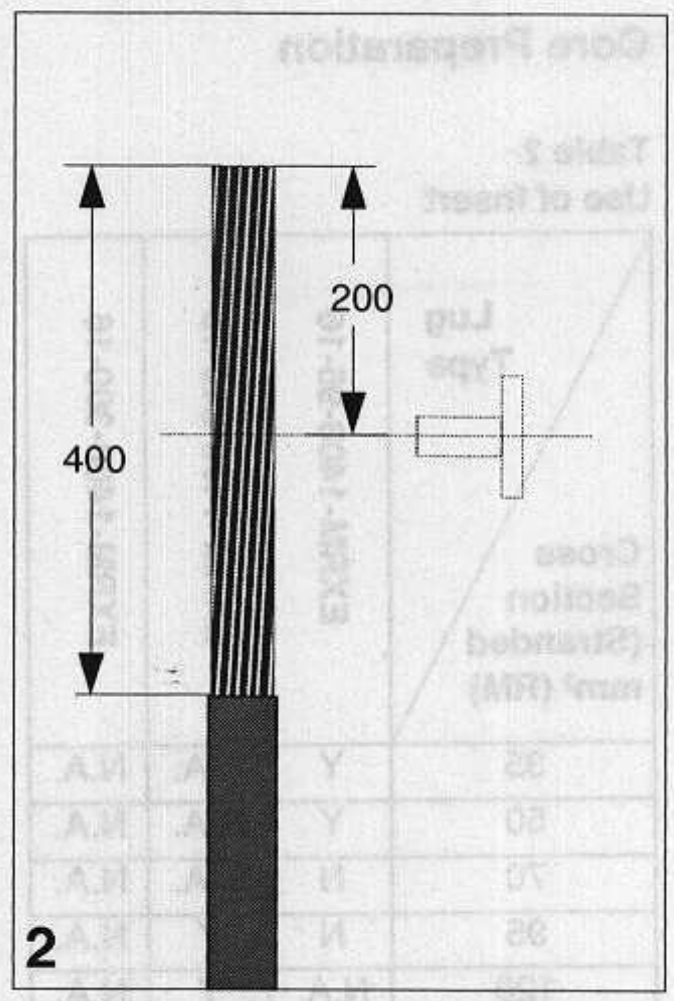
Cable Preparation





Clean and degrease the end of the oversheath for a length of 1 metre with solvent wipe.

Cable with wire shield
Position the cable with 200 mm overlap to the bushing centre.
Mark the oversheath 200 mm below the bushing centre.
Cut the cable 400 mm above the mark and remove the oversheath over this distance. Cut off Cu-spiral screening tape flush with end of outer sheath.
Edges projecting beyond the outer sheath **must be avoided**, so that the stress cone can not be damaged during push on procedure.

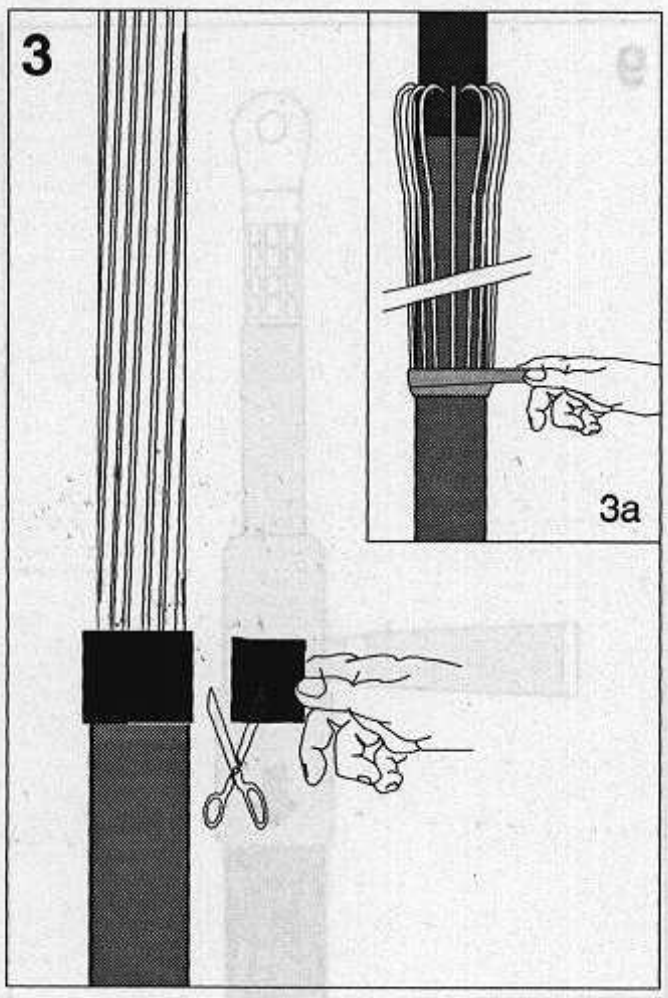
Wrap one turn of sealant tape (green) with no overlap and slight tension around the end of the oversheath.
Cut the tape and push ends together.
Bend the shielding wires back onto the oversheath.
Avoid crossing the individual wires.
Temporarily secure the wires with a tape or wire binder.

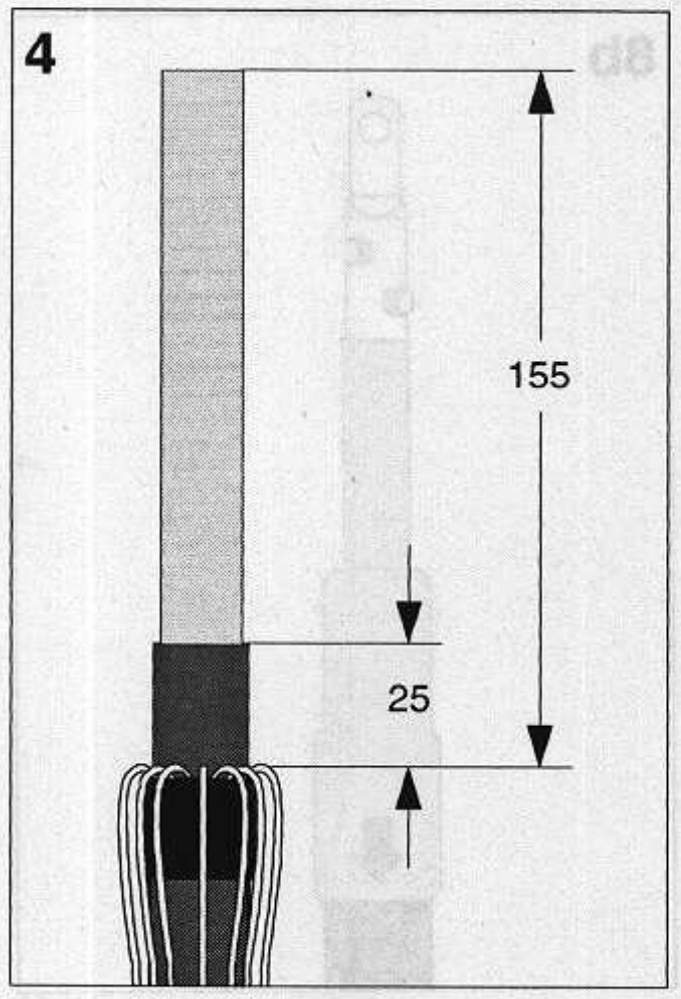
Cut the core according to the drawing.
Remove the core screen with appropriate screen cutting tool according to the drawing. The surface of the insulation should be free from all traces of conductive material.
Compare the diameter over insulation with application range as shown in **Table 1** as well as with marking of supplied stress cone.

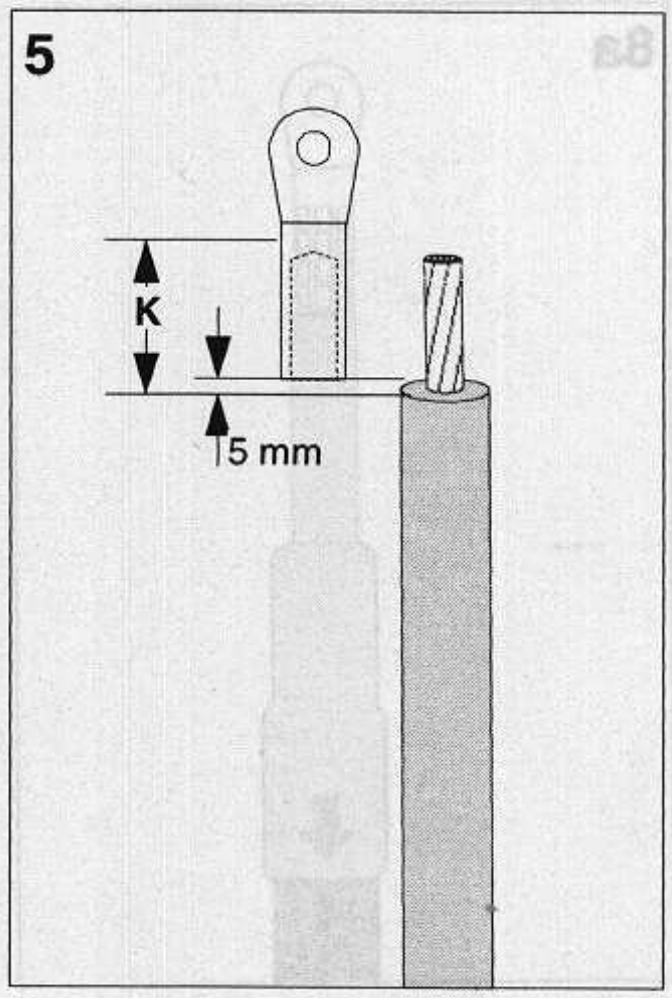
Cut back the insulation according to dimension **K given in drawing details.**

A. Hexagonal compression and mechanical lugs
Dimension **K** must not exceed 55 mm.

B. Deep indent compression lugs
Dimension **K** must not exceed 60 mm.







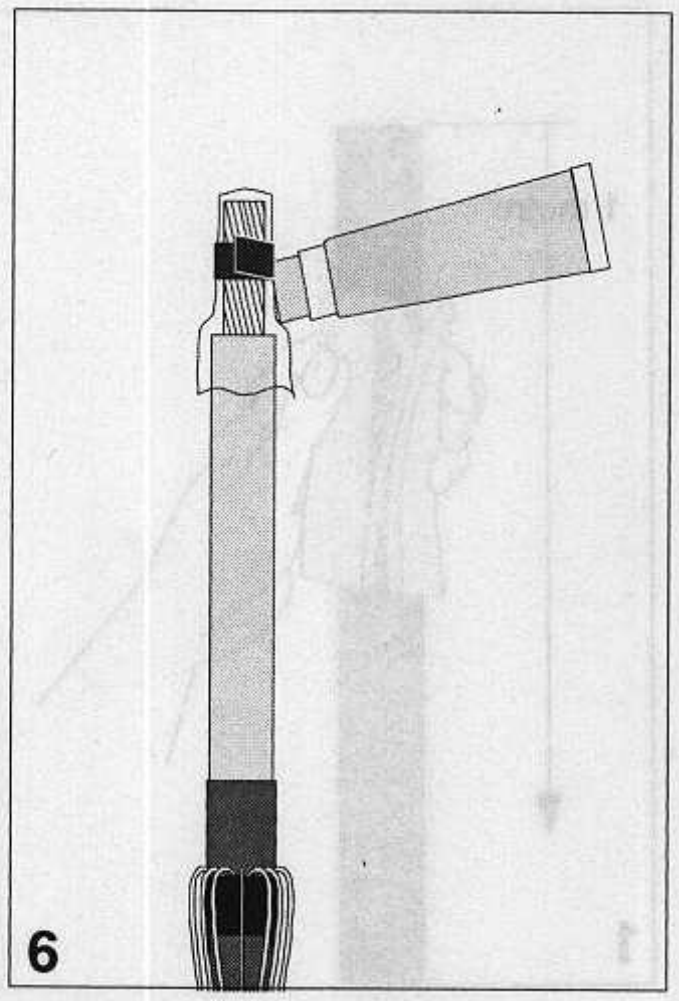
Core Preparation

Table 2
Use of Insert

Lug Type / Cross Section (Stranded mm² (RM)	EXRM-1408-95-16	EXRM-1408-240-16	EXRM-1408-300-16
35	Y	N.A.	N.A.
50	Y	N.A.	N.A.
70	N	N.A.	N.A.
95	N	Y	N.A.
120	N.A.	Y	N.A.
150	N.A.	Y	N.A.
185	N.A.	N	N.A.
240	N.A.	N	N.A.
300	N.A.	N.A.	N

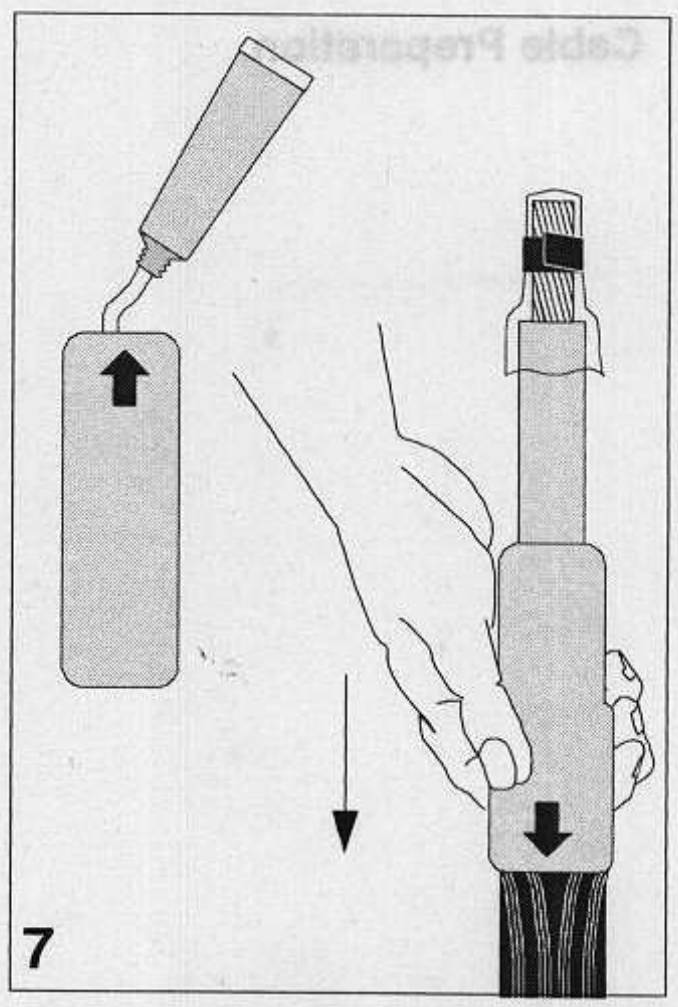
N.A. = not applicable
Y = Yes
N = No

a. Compression lugs
Install the cable lug with the appropriate die and compression tool.
Remove any sharp edges.
Clean and degrease the lug and insulation from any excessive compression grease.



Slide the small protective bag (assembly aid) over the exposed conductor and tie it down with a PVC tape as shown in the drawing.
Gently lubricate the outer surface of the protective bag and the core insulation with a thin layer of assembly grease. Apply the grease layer with the sponge top as shown.

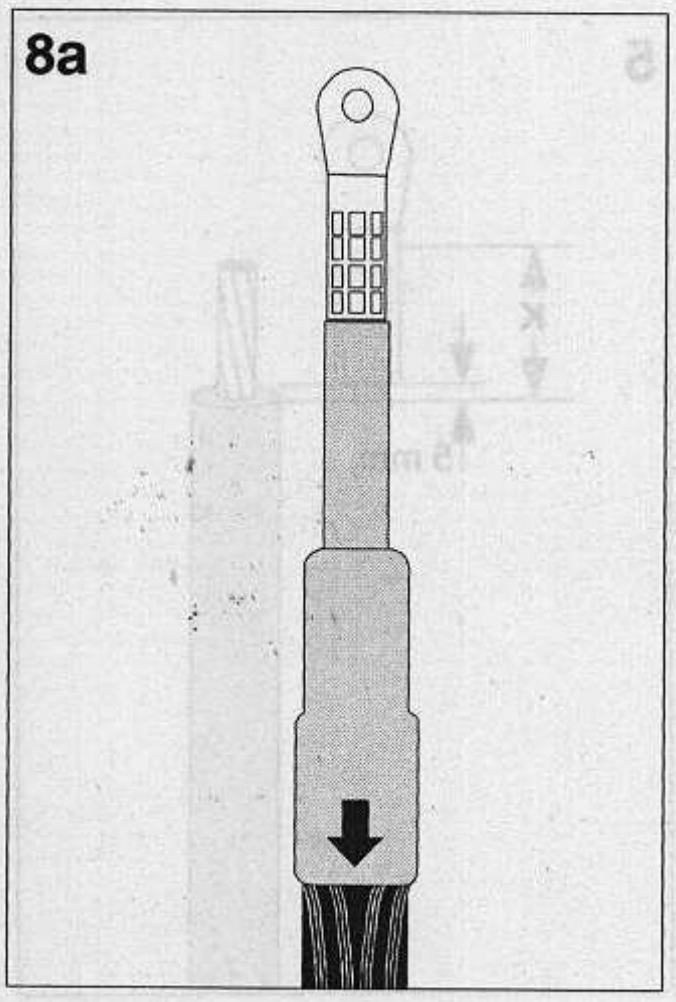
b. Mechanical lugs with inserts
The insert has to be used as noted in **Table 2**.
Ensure that the retention of the insert is locked into the appropriate hole in the barrel.
Install the cable lug. Tighten the bolt set alternately in several equal steps until the heads shear off.
Remove any sharp edges.

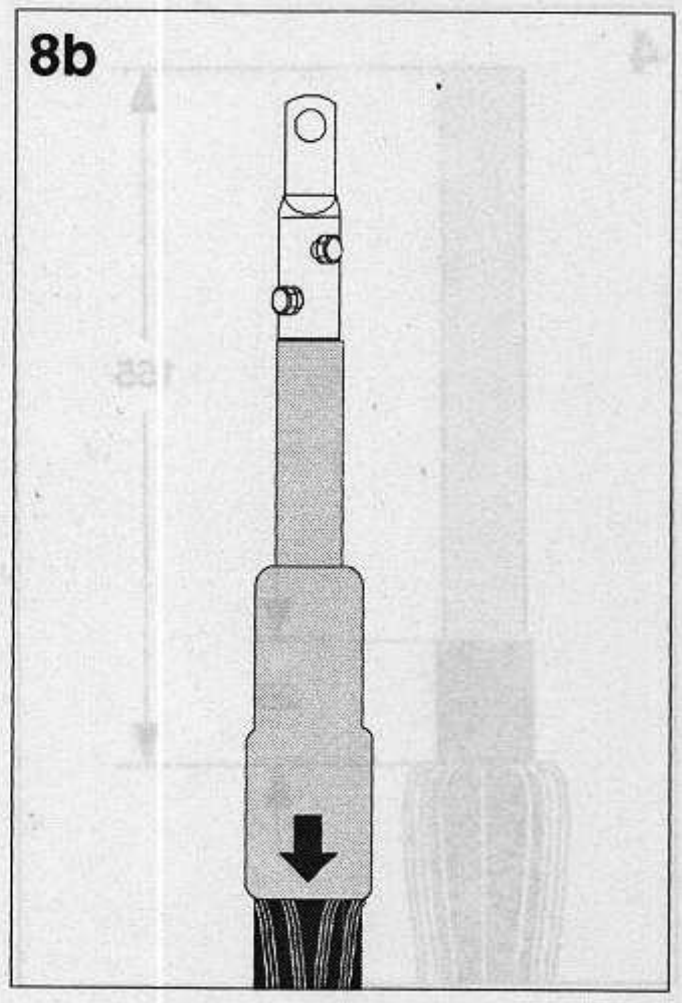


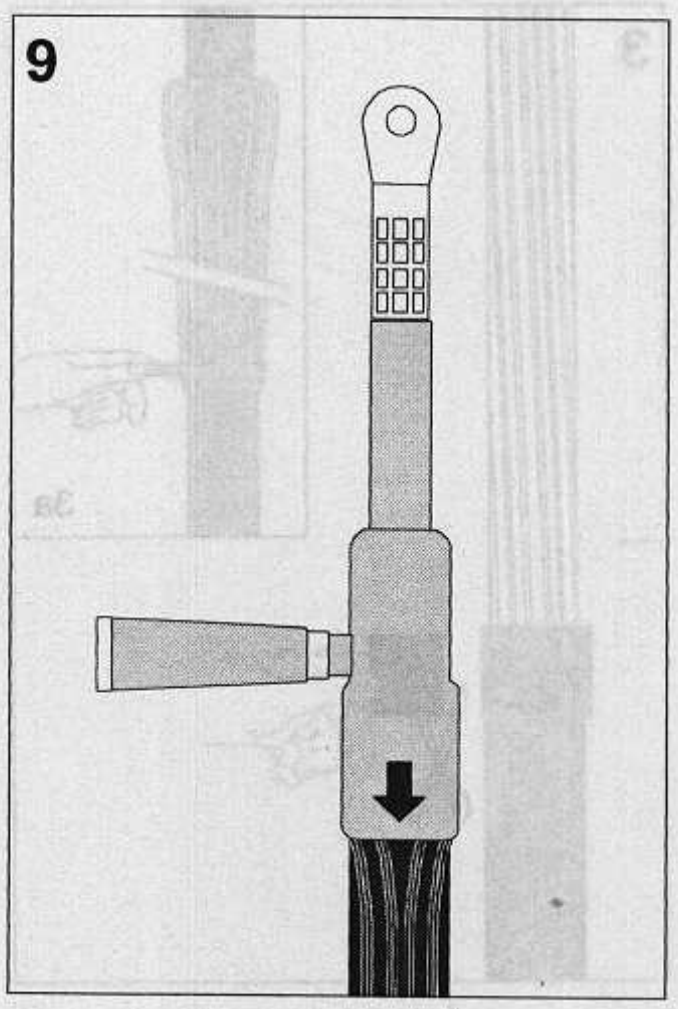
Apply onto the inner surface of the stress cone at the bottom end a 3 cm long sausage of assembly grease and spread it evenly over the inner surface. Use assembly grease without sponge top. Push the stress cone in one sequence with a twisting movement over the assembly aid completely onto the insulation until the inner collar of the stress cone stops at the oversheath cut back of the cable.
Note: The arrow on the stress cone should point onto the cable sheath.

Remove the assembly aid from the conductor.

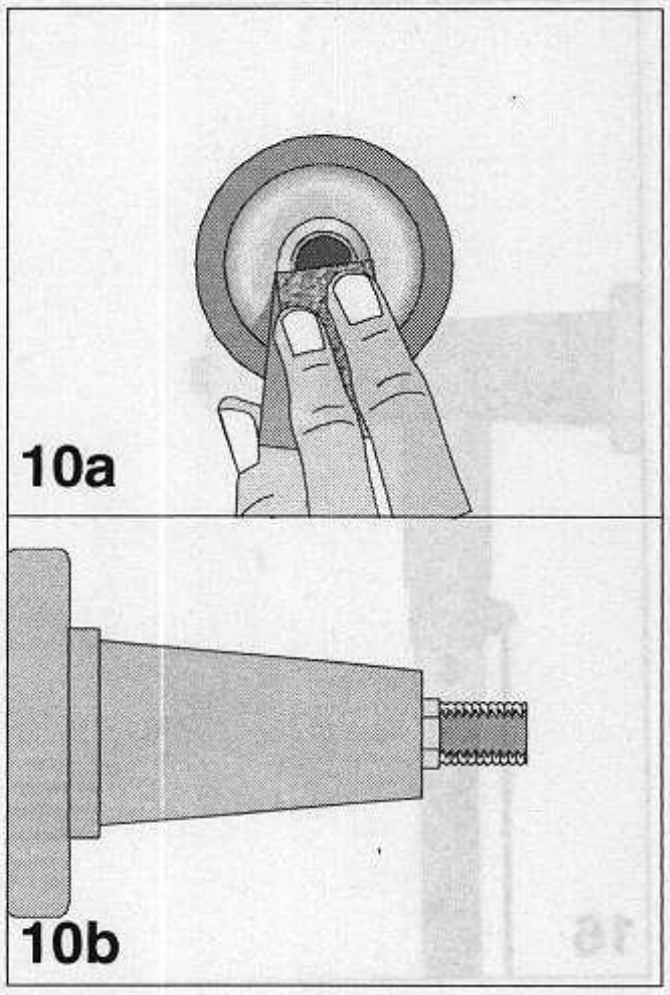
Apply a thin layer of grease onto the outer surface of the stress cone with the sponge top.

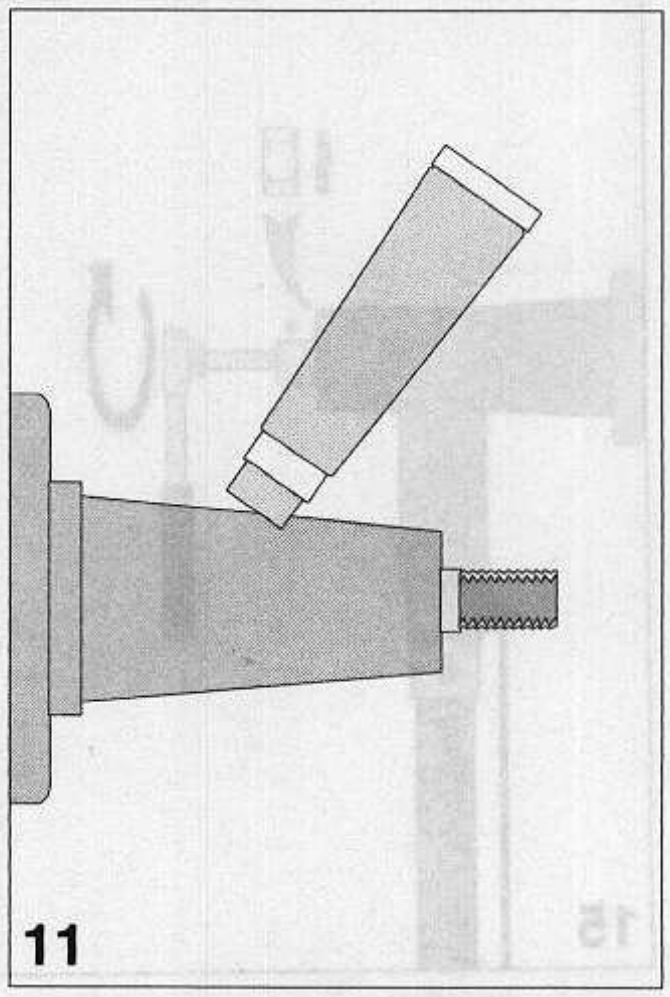






Mounting of connector body





a. Abrade and clean the contact ring of the bushing thread from residuals such as resin or varnish if any.

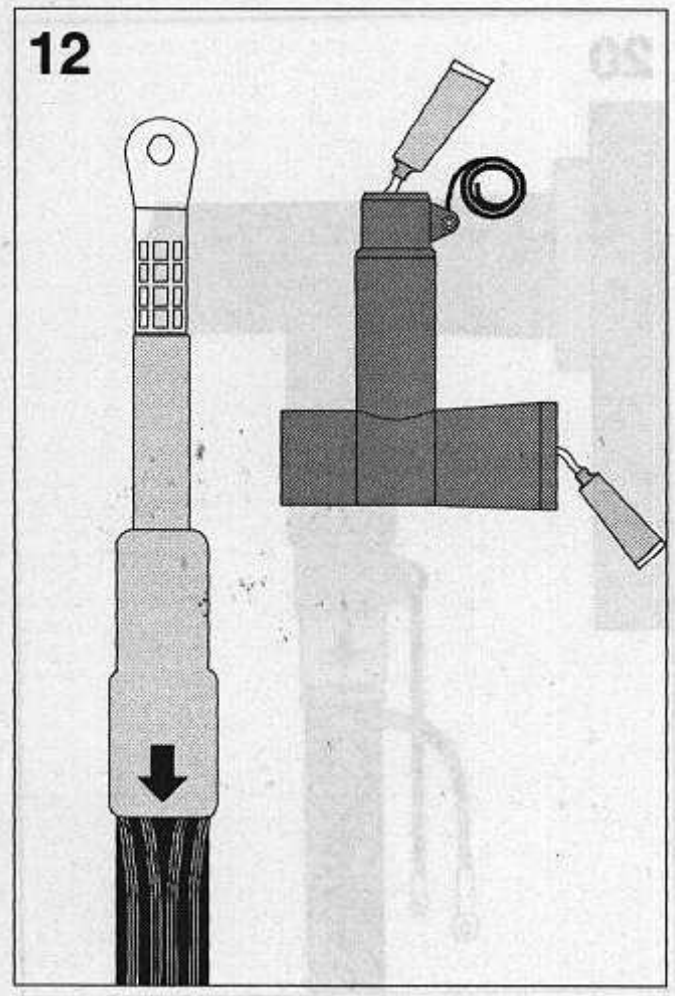
b. Insert the threaded stud into the bushing and tighten it up either with a spanner (14 mm) or an Allen key (6 mm). Maximum torque: **35 Nm**.

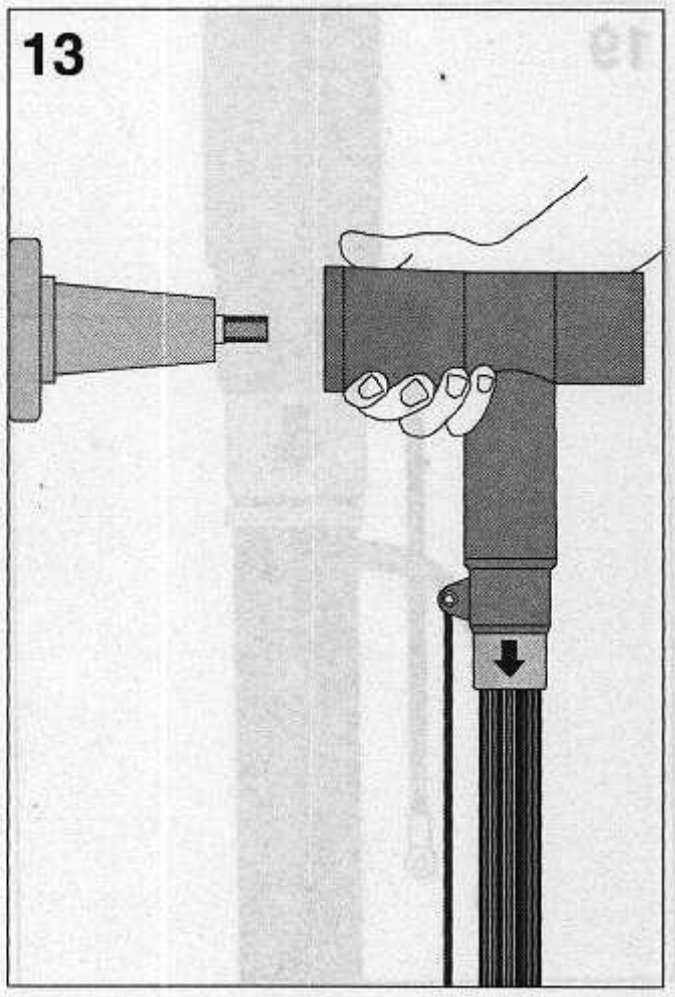
Clean the conical surface of the bushing and lubricate it with the assembly grease as shown.

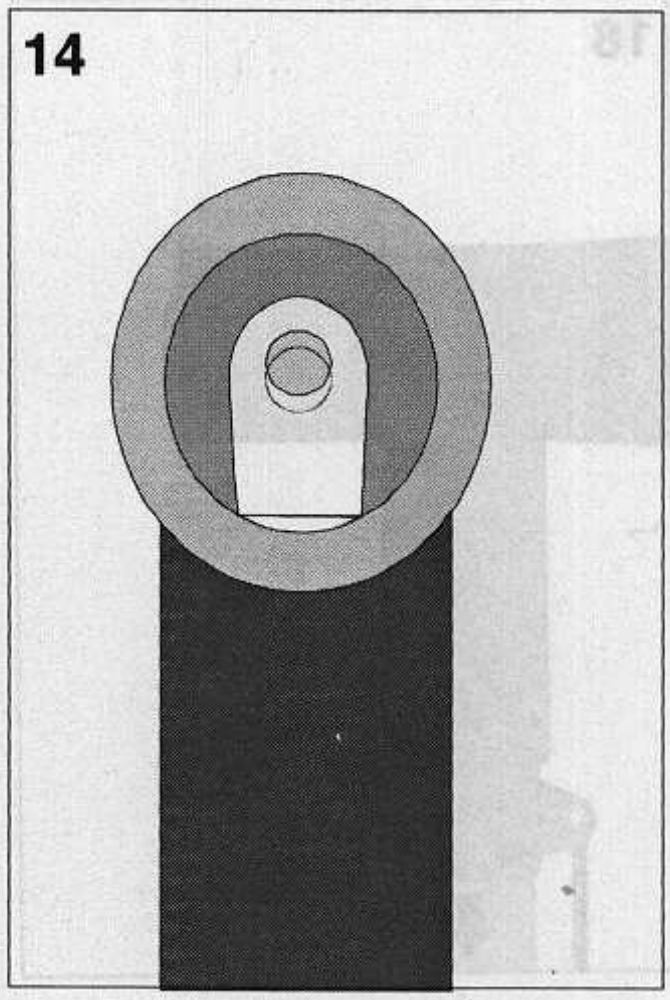
Clean and degrease the bottom and front end of the screened connector body and apply a thin layer of grease onto the inner surface without the sponge top as shown.
Note: Use one way glove to evenly lubricate the inner surface at a length of approximately 50 mm.

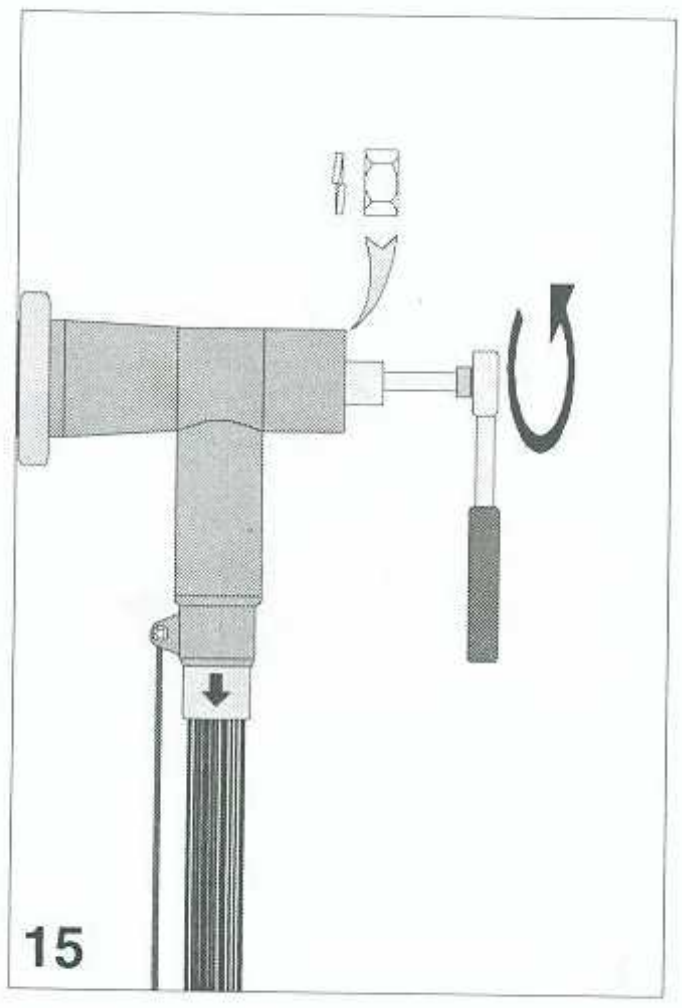
Push screened connector body with no interruption onto the stress cone and hold it. Continue **immediately** with the next step.

Align the eye of the cable lug with the threaded pin and push the screened connector onto the bushing.

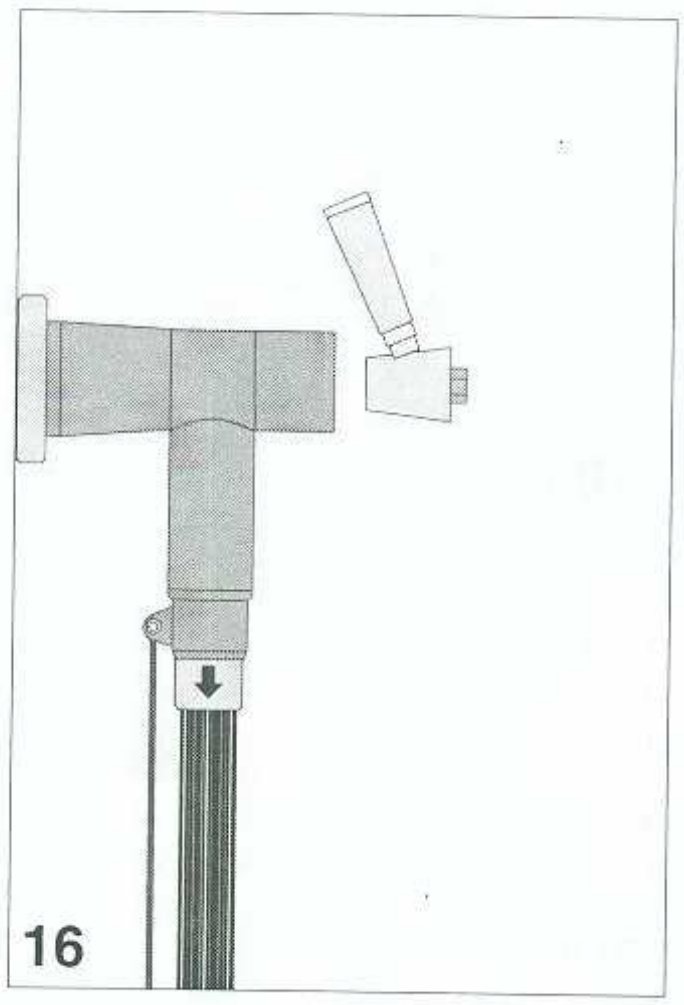




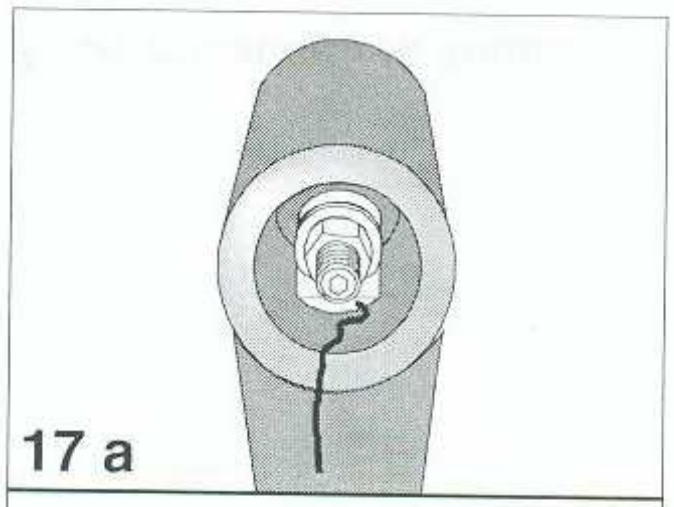


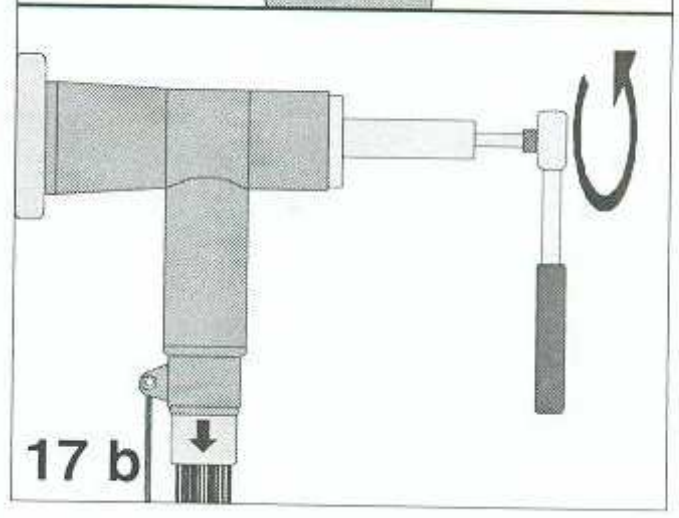


Insert the spring washer and hex nut. Tighten the hex nut onto the stud with a spanner (19 mm) at a torque of **30 Nm**.



Clean the inner surface of connector back end and apply a thin layer of assembly grease. Do the same with the conical interface of the back plug as shown.





a) Place a string into the rear entry of the connector as shown.
b) Insert the back plug and screw it into place using a spanner (19 mm) at a torque of **30 Nm**.
Remove the string prior to the last two turns.

Cover the back plug with the conductive end cap using the groove of the test point as positioner.

Ensure that the grounding lead is fastened tightly, do nut destroy the dome nut.
Fix the shielding wires with a wire binder (four layers) at the end of the stress cone. Gather the wires together to form an earth lead. Install at the end of the shielding wires and the grounding lead the connection lugs supplied in the kit.
Perform connection to ground.

Screened separable connector completed.

Please dispose of all waste according to environmental regulations.