CORNING

Installation Instruction
Issue 1, July 2020

Pulling and Installation of EDGE™ Solutions Trunk

S46998-A0007-P080

These instructions are provided as a guideline for the trained craftsperson.

Related Documents:
EDGE Solution, **SRP 003-794**
Indoor Installation of Corning Cable Systems Fiber Optic Cable, **SRP 005-014**
Corning Cable Systems TKT-PNP Cleaning Kit for Plug & Play™ Systems, **SRP 006-093**



MTP®-MTP EDGE™ Trunk



LCUNI-MTP® EDGE™ Trunk



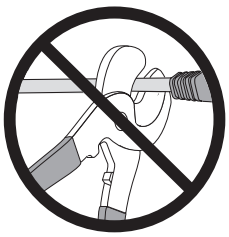
Hybrid MTP®-LC EDGE™ Trunk

1. General

This procedure provides instructions for pulling and installing EDGE™ EMEA trunk cables supplied with factory-installed protection/pulling grips. The pulling grips protect the connectors and their fibers by coupling the pulling load back to the cable.

2. Trunk Cable Placing Precautions

Personnel performing this operation should be experienced with pulling optical cable. The methods andpractices provided in this procedure are intended only as guidelines, as each installation will be influenced by local conditions, your company's policies, and user preferences.



IMPORTANT: The pulling grips installed on preconnectorized cables contain the connectors and their sub-units. Unlike conventional pulling grips, do not cut off the grip and cable inside it upon the completion of cable installation.
Remove the pulling grip from over the connectors and sub-units only as described in this procedure. Failure to do so may result in damage or loss of the connector assemblies.

Do not attempt to disassemble the pulling grip before the cable is pulled into place. Doing so may cause the pulling grip to fail.

3. Trunk configuration

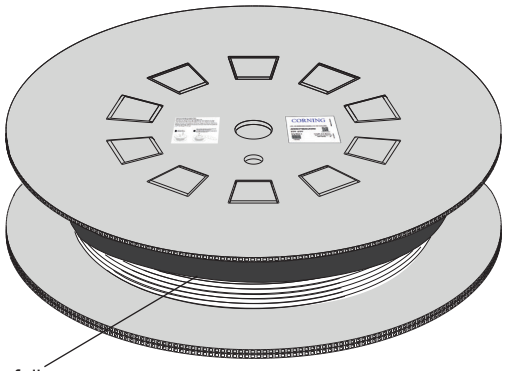
Description	Side 1			Side 2		
	Connector type	Pulling grip	Packing	Connector type	Pulling grip	Packing
Edge™ Trunk*	MTP	yes	on the reel	MTP	no	inside the reel
	MTP	yes	on the reel	MTP	yes	on the reel
	MTP	no	inside the reel	MTP	no	inside the reel
Hybrid MTP® - LC EDGE™ Trunk with pulling grip on one side	MTP	yes	on the reel	LC Uniboot	no	inside the reel
	MTP	no	inside the reel	LC Uniboot	no	inside the reel
LC-LC EDGE™ Trunk	LC Uniboot	no	inside the reel	LC Uniboot	no	inside the reel

*MTP® - MTP EDGE™ Trunks in all pulling grip configurations and length less or equal to 30 meters are packed in cartoon box.

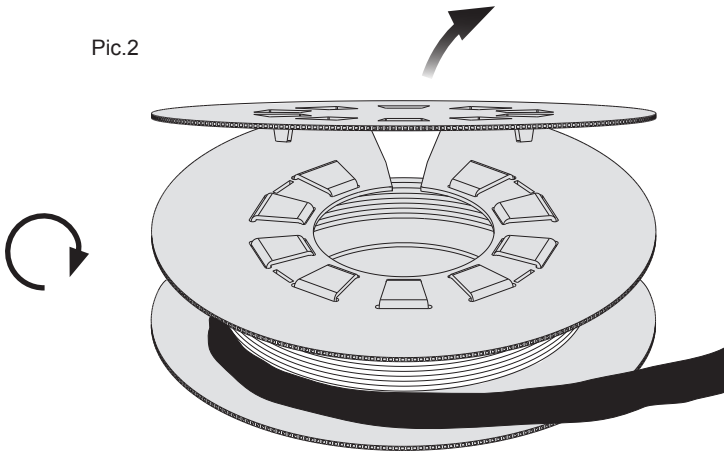
4. Unpacking

Remove stretch foil (pic. 1) and open top half by pulling up like in the picture no. 2.

Pic.1



Pic.2

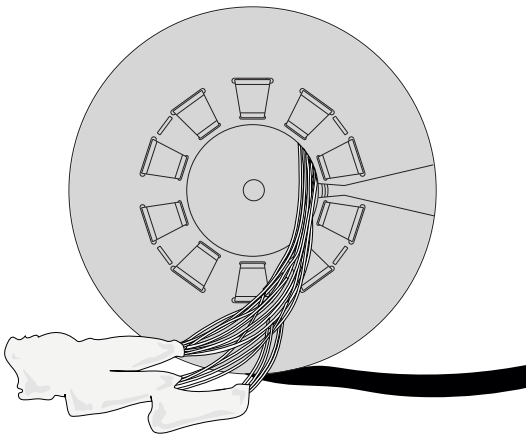


Remove from the inside of the reel trunk holder kit, accessories and documentation.

4.1 Connector side with pulling grip (on the reel)
If there is a pulling grip on MTP side, please procced according to point 5 and route MTP legs according to hardware instruction.

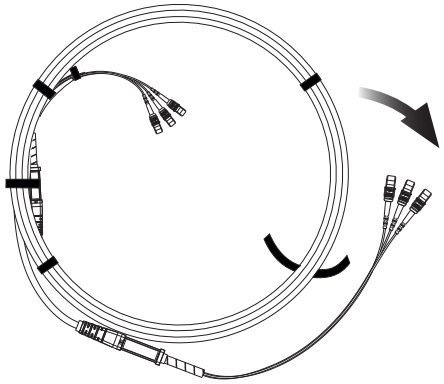
4.2 Connector side without pulling grip (inside the reel)
If there is no pulling grip on MTP side, MTP legs will be delivered inside the reel. To unpack please procced according to legs inside the reel steps.

Pic.3

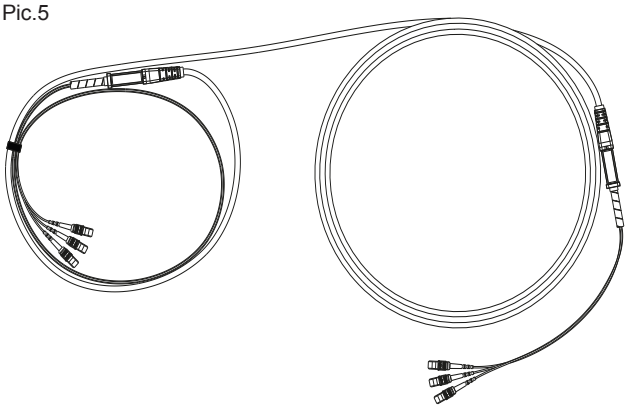


Gently pull out LC Uniboot/MTP® legs from the reel. Route LC Uniboot/MTP® legs according to hardware instruction. and remove foam bags from LC Uniboot/MTP Connectors.

Pic.4



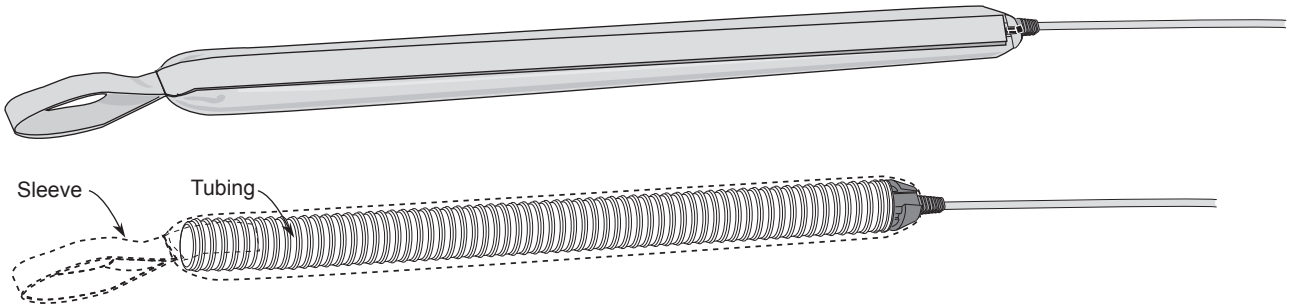
Pic.5



4.3 Connector side with pulling grip (coiled inside a cardboard)
If there is a pulling grip on MTP side, please proceed according to point 5 and route MTP legs according to hardware instruction.

4.4 Connector side without pulling grip (coiled inside a cardboard)
If there is no pulling grip on MTP side, connector legs will be coiled modularly on the interior of the trunk coils with additional 1m cable length. To unwind please proceed according to pictures 4 and 5.

5. Pretium EDGE™ EMEA Trunk Cable Pulling Grips



CAUTION: *Do NOT use any type of lubricant when installing this series of pulling grip.*

CAUTION: *Fiber optic cable is sensitive to excessive bending, and crushing forces. Consult the cable specification sheet for the trunk cable you are installing. Do not bend the trunk cable more sharply than its minimum recommended bend radius. Do not crush the cable or allow it to kink. Doing so may cause damage that can alter the transmission characteristics of the cable — the cable may have to be replaced.*

CAUTION: *These grips are intended to be placed and pulled by hand. Do not use use any mechanical pulling devices on this series of grip.*

CAUTION: *This pre-connectorized pulling grip has a maximum tensile rating of 100 pounds (44.5 kg). NEVER EXCEED THIS TENSION DURING INSTALLATION. The pulling grip has a minimum bend radius of 18 inches (45.72 cm). Refer to the EDGE specification sheet for cable / grip dimensions and appropriate duct sizes.*

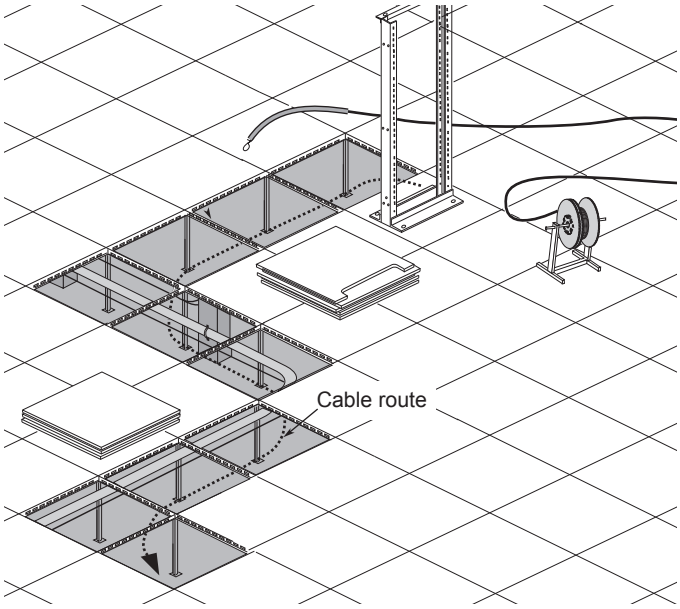
5. Trunk Cable Placement with the Pulling Grip

Note: *This procedure assumes that a pull line has been placed in the duct route and that the equipment necessary to maintain the bend-radius of the pulling grip is in position.*

Note: *Cables shorter than 30 m ship in a bag in a box.*

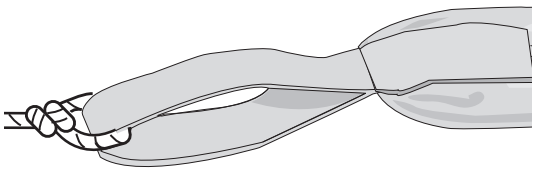
5.1 If necessary, remove the corrugated reel from its protective shipping box or pallet.

5.2 Place the cable reel on a reel stand so that the pulling grip/cable will pay-off the top of the reel.



5.3 Attach a pull line to the pulling loop at the end of the sleeve

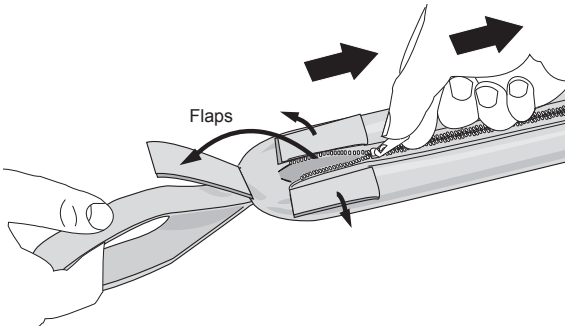
5.4 Place the cable using your company's standard practice, taking care not to exceed either the minimum bend radius or tensile rating of the grip.



6. Pulling Grip Removal

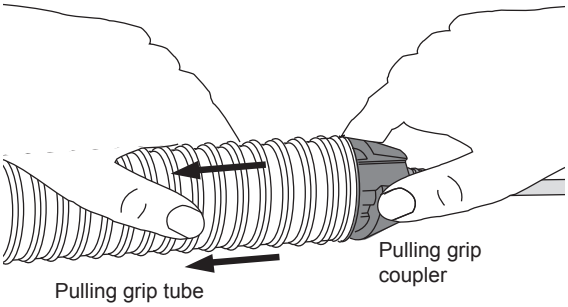
6.1 Remove the pull line and clean any dirt or debris from the outer surfaces of the sleeve.

6.2 Lift the hook and loop flaps to expose the zipper pull. While holding the sleeve's pulling loop with one hand, unzip the sleeve.

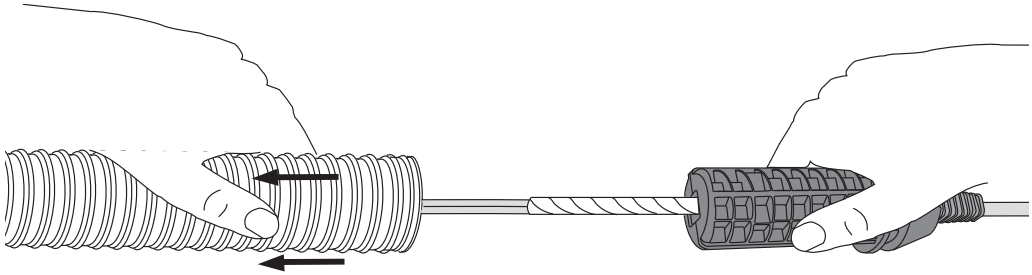


6.3 Remove the cloth sleeve from around the grip.

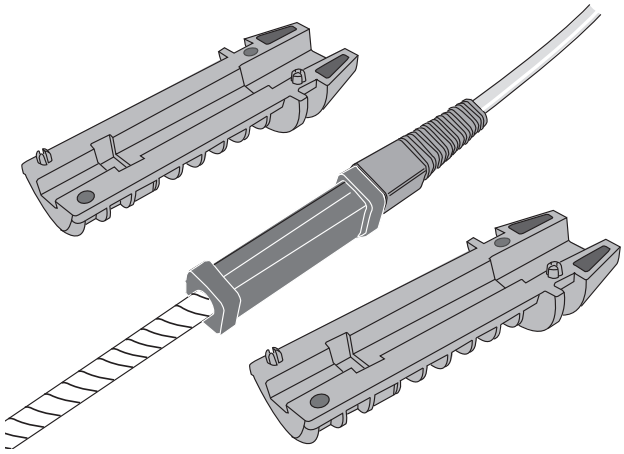
6.4 With the grip lying on a work surface, grasp the coupler at the cable-end of the trunk cable. With a slight twisting motion, pull the corrugated tube away from the coupler with your other hand.



6.5 Slowly slide the tubing away from the coupler and its connector legs.



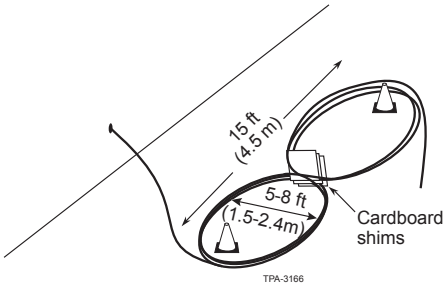
6.6 Remove the coupler halves from the trunk furcation body and dispose of the coupler assembly.



7. Handling of unreeled cable during installation

7.1 If the cable must be unreeled during installation, use the figure-eight configuration to prevent kinking or twisting. Do not coil fiber optic cable in a continuous direction except for lengths of 100 ft (30 m) or less.

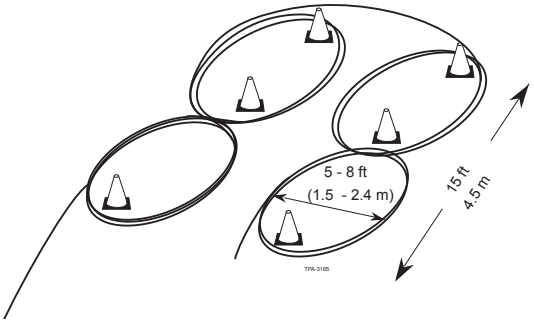
7.2 For loose tube cables, the preferred size of the figure-eight is about 15 ft (4.5 m) in length, with each loop about 5 - 8 ft (1.5 - 2.4m) in diameter. Traffic cones spaced 7 - 8 ft (2.1 - 2.4 m) apart are useful as guides during figure-eighting. Smaller figure-eights may be used for low-fiber count MIC® cables.



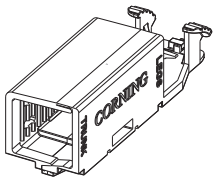
7.3 When figure-eighting long lengths of cable, relieve pressure on the cable by placing cardboard shims at the crossover of the eight or by forming a second figure-eight. Potential problems should be identified and resolved if possible.

7.4 If a figure-eight must be flipped over to reach the cable pulling eye, do so with three installers, one at each end and one in the center. The cable can then be pulled off the figure-eight the remaining distance.

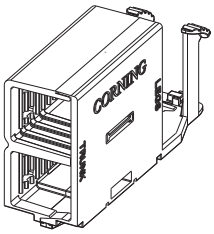
7.5 Whenever unreeled cable is placed on the floor in high traffic areas, provide barricades or other means of preventing vehicular or pedestrian passage through the area.



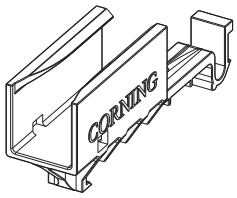
8. Using EDGE™ Trunk Holder



Single holder



Double holder



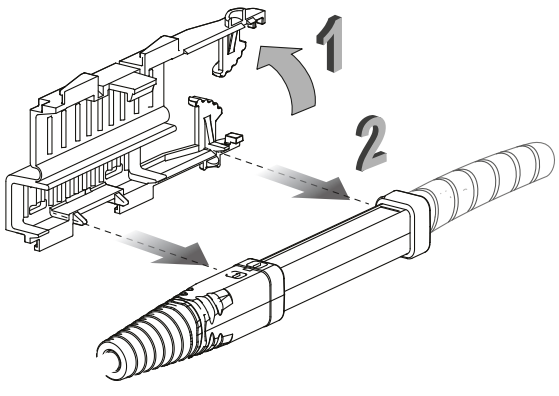
U-clip holder

If needed, this part must be ordered separately using part number: EDGE-U-CLIP-SZ1-12 or EDGE-U-CLIP-SZ2-12

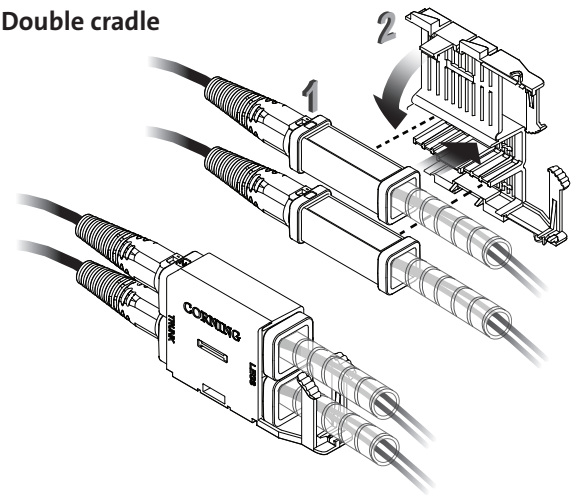
8.1 Mounting the trunk holder (If Ordered Separately)

Insert the plug into the trunk holder. The plug should be inserted to the trunk holder from the wider slot side.

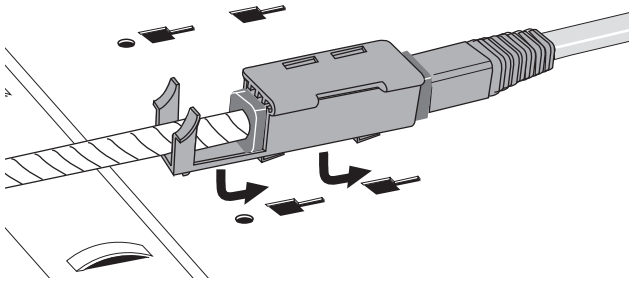
Single cradle



Double cradle

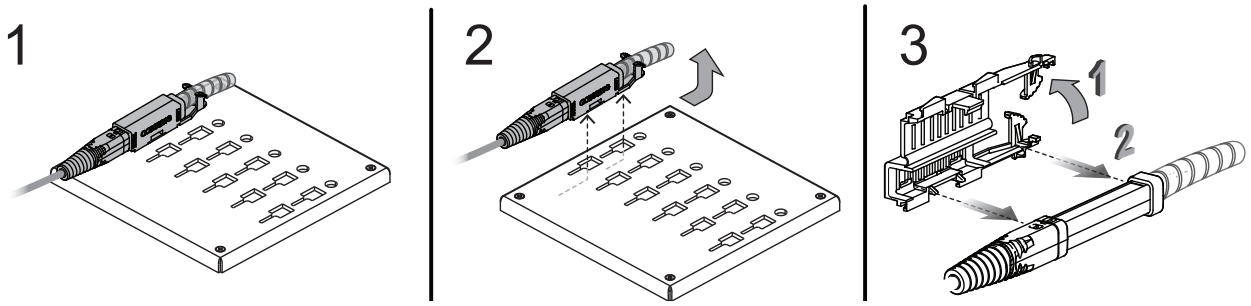


Secure the trunk assembly to the EDGE™ data center housing as described in the housing instructions.



8.2 Dismounting the trunk holder

Take out the trunk holder from hardware. Force the trunk holder walls to the sides using your thumbs. Push it from the bottom using your forefinger at the same time

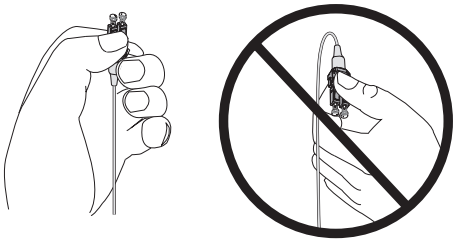


9. Pretium EDGE™ Solutions Trunk handling procedures

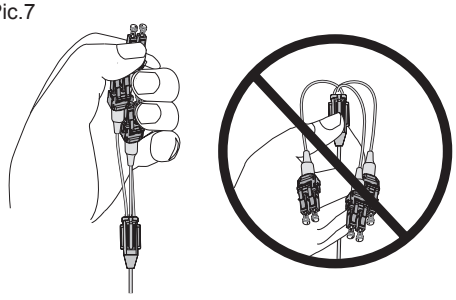
Fiber optic cables are sensitive to excessive pulling, bending, and crushing forces. Never move or pull the cable by pulling on its connector legs. Consult the specification sheet for the cables you are installing - replacement of the cable may be necessary if any of these conditions occur.

The illustrations (Pic. 6-8) depict correct and incorrect cable handling.

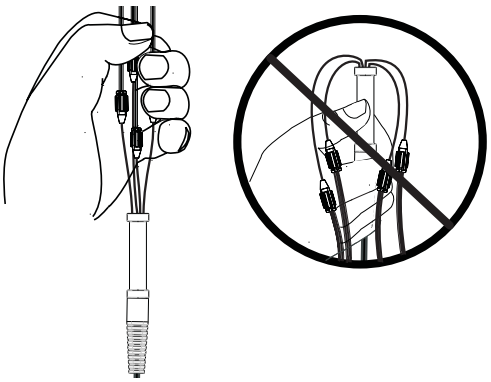
Pic.6



Pic.7



Pic.8



10. Connector cleaning and care

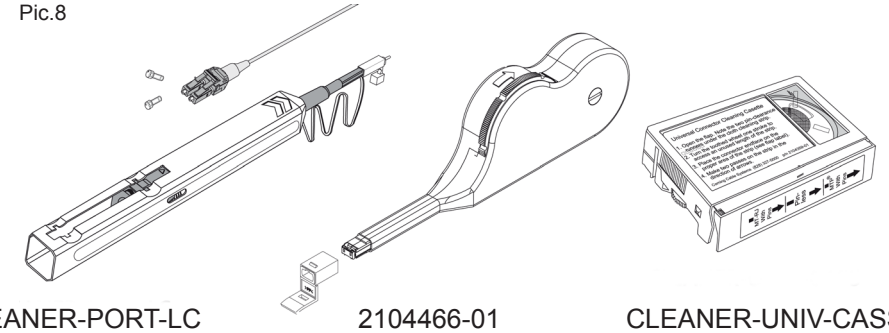
Corning CleanAdvantage technology and optimised dust cap

Corning CleanAdvantage technology, a new cleaning process implemented at the factory that uses residue-free cleaning fluids. Corning's proprietary nozzle design enables a focused and directed spray to the end face, virtually cleaning the entire ferrule. All CleanAdvantage products (2020 onwards) and shipped with an optimised dust cap design, engineered to maintain the end face cleanliness until the first mating connection. CleanAdvantage eliminates the need for scoping and cleaning prior to the initial field connection, reducing installation time and cost.

Cleaning during Troubleshooting

Corning recommends using the CLEANER-PORT-LC when cleaning LC connector end-faces when installed in an adapter and when in jumper format. Likewise, when cleaning MTP® connector end-faces in jumper and adapters, Corning suggests using 2104466-01. One additional cleaning tool (CLEANER-UNIV-CASS) can be used to clean any single-fiber or multi-fiber connector not installed in an adapter.

Pic.8

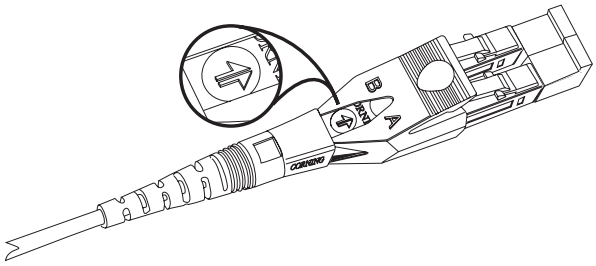


CLEANER-PORT-LC 2104466-01 CLEANER-UNIV-CASS

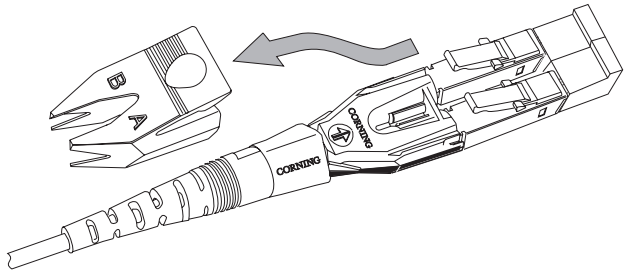
11. Changing the Polarity of an LC Uniboot Connector

The split arrow and gray color indicate that the connector has factory-set polarity.

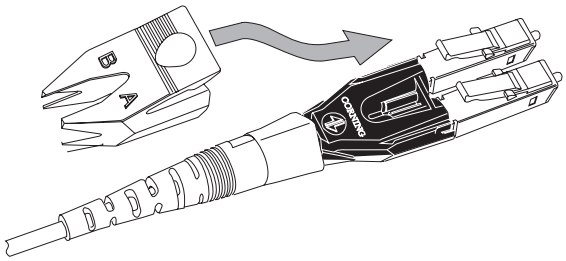
To reverse the polarity...



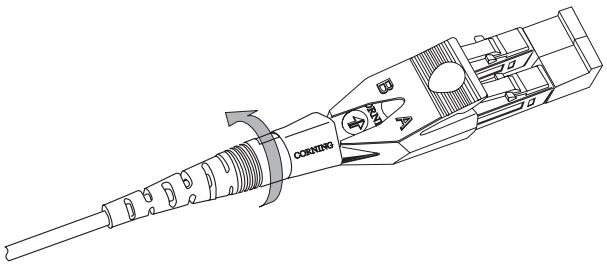
2. Slide the trigger off the Uniboot connector.



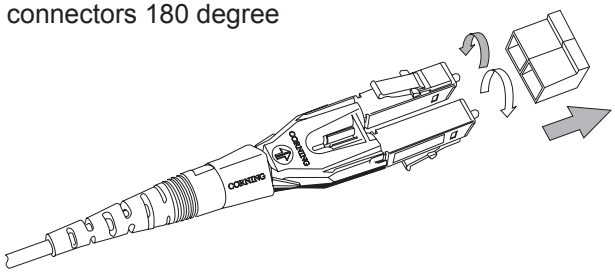
4. Turn the connector over and slide the trigger back on the connector



1. Rotate the connector boot 45°

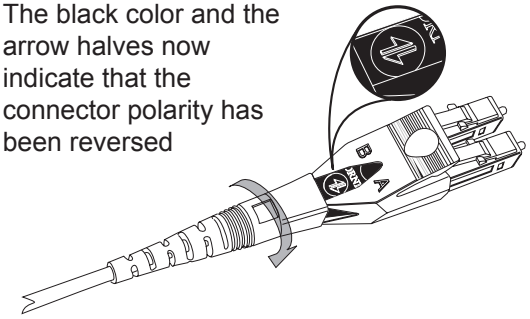


3. Slide the connectors covers and rotate both connectors 180 degree



5. Rotate the connector boot back 45 degree

The black color and the arrow halves now indicate that the connector polarity has been reversed



Corning Optical Communications GmbH & Co. KG • Leipziger Strasse 121 • 10117 Berlin, GERMANY
+00 800 2676 4641 • FAX: +49 30 5303 2335 • www.corning.com/opcomm/emea

Corning Optical Communications reserves the right to improve, enhance, and modify the features and specifications of Corning Optical Communications products without prior notification. A complete listing of the trademarks of Corning Optical Communications is available at www.corning.com/opcomm/trademarks. All other trademarks are the properties of their respective owners. Corning Optical Communications is ISO 9001 certified. © 2020 Corning Optical Communications. All rights reserved.
LAN-123-A4-BEN / July 2020