

# Installation Instructions For Cell Reach® 540 and SFX A-Series Connectors



## Tools Required:

- A Cell Reach 540 AUCT or SFX ACT Connectorization Tool
- Wrenches of proper size for tightening connectors
- A hacksaw or cable cutters for cutting cable
- Green or Red 3M Scotchbrite™ scouring pad for cleaning outer conductors.
- Center Conductor Cleaning Tool, CCCT-S

## Coring Tools Not To Use For A-Series Connectors

- 396CT (green & gold)
- 540CT (green & gold)
- SFXCT (blue & gold)
- 540UCT (blue & gold)

**Caution:** In the past, CommScope has provided two different series of connectors. The standard (old) series & new (A-series). These instructions apply to the new A-series connectors alone.

## Connector Differences Between The Two Series:

### SFX A-Series versus 396 Standard Series

- Smaller length and lighter weight
- 18mm wrenches required for tightening; previous design required 20mm (odd size often difficult to obtain)
- Lower torque required for tightening the back nut.

### 540 A-Series versus 540 Standard Series

- Smaller length and lighter weight
- Lower torque required for tightening the back nut.

**Step 1:** Core the cable with the Connectorization Tool. (A high torque, low speed power drill is recommended to core Cell Reach SFX and 540 cables.) Continue coring the cable until it bottoms out at its positive stop and no more material is exiting from the tool. (See photo 1)

**IMPORTANT:** Confirm proper center conductor length by comparing to connector back nut barrel as shown above. (See Photo 1A) *Note: Remember to keep coring tool clean.*

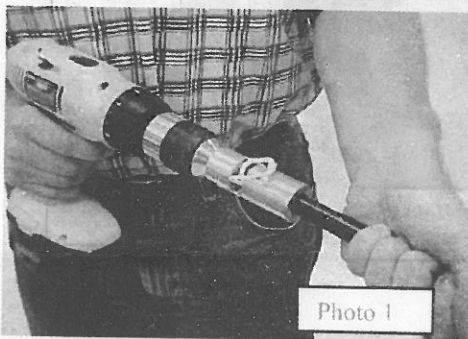


Photo 1

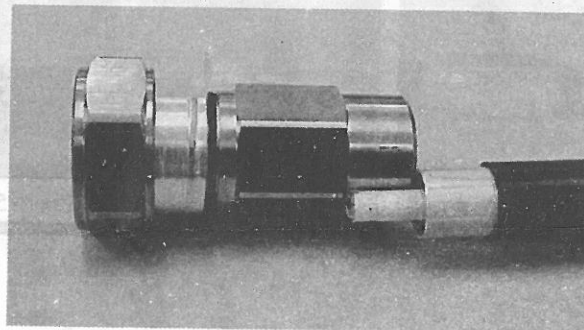


Photo 1A

**Step 2:** Notice that during the coring process, the outer jacket was removed. This is a normal process with these tools. When the jacket is removed, the exposed center and outer conductors will be coated with adhesive and dielectric material. Clean the outer conductor with a green or red 3M Scotchbrite pad. (See Photo 2) Completely remove the adhesive. **Important:** Do not clean the center conductor until the outer conductor has been cleaned.

**Step 3:** Carefully remove the dielectric material from the center conductor. DO NOT use a knife; use the Center Conductor Cleaning Tool, CCCT-S. (See Photo 3)

- Cell Reach is a registered trademark of CommScope, Inc.
- 3M and Scotchbrite are trademarks of the Minnesota Mining and Manufacturing Company.

Instructions Continued On Back

# Installation Instructions For Cell Reach® 540 and SFX A-Series Connectors

Page 2

Release Date October 29, 2002

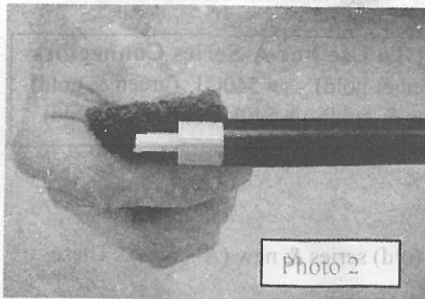


Photo 2

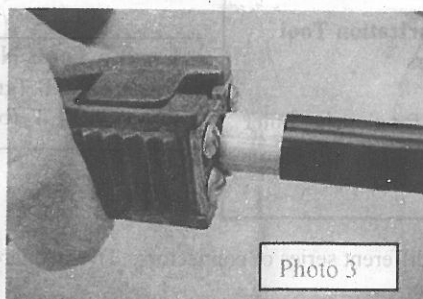


Photo 3

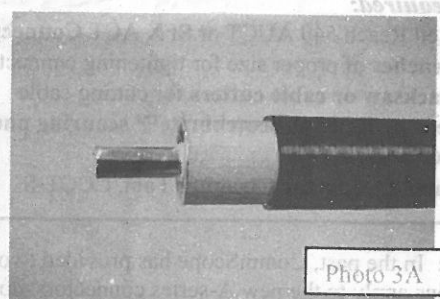


Photo 3A

**Note:** Photo 3A depicts a properly prepared cable end.

**Step 4:** Slide the back nut onto the cable until it is completely seated. (You'll hear it "pop" into place.) The center conductor should protrude about 1/8 inch (3mm) past the back nut. Mate the back nut with connector front nut. (See Photo 4).

**Step 5:** While holding the front nut stationary, turn the back nut counterclockwise by hand, to tighten the connector as tight as possible before using wrenches. This is to ensure that the connector does not slide forward during the remainder of the tightening process. (See Photo 5)

**Step 6:** Continue to tighten the connector with proper size wrenches. **Important:** During the tightening process, make sure that the front nut doesn't turn. Tighten the connector until the O-ring completely disappears and you achieve metal-to-metal contact between the back nut and the front nut. (See Photo 6 and Photo 6A)

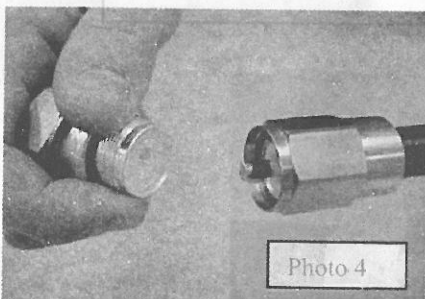


Photo 4

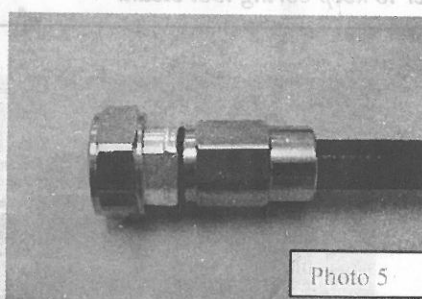
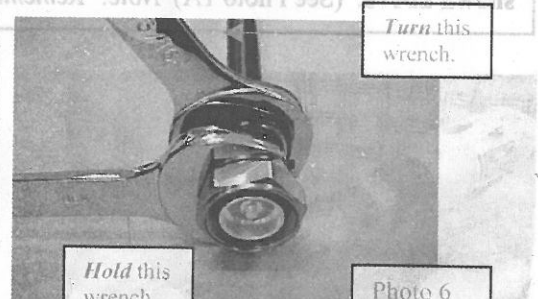


Photo 5



Turn this wrench.

Hold this wrench.

Photo 6

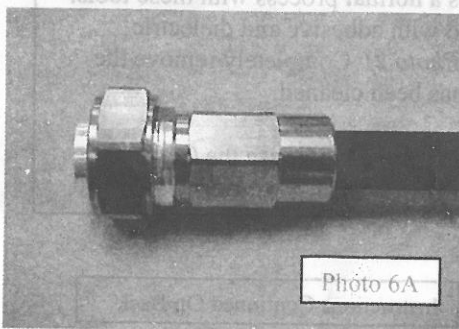


Photo 6A

**CommScope®**

6519 CommScope Road  
PO Box 199  
Catawba NC 28609  
Phone: 888-235-5732  
Sales Fax: 828-241-6022  
Tech. Hotline: 800-541-1220

Release date: October 29, 2002