1. Adapters to Other Systems

1.1 *FIBERRUNNER* 2x2 Cable Routing System to Various 2x2 Systems

The *FIBERRUNNER* 2x2 *QUIKLOCK*™ Coupler, when used with the *FIBER-DUCT*™ 2x2 Coupler allows the *FIBERRUNNER* 2x2 Cable Routing System to transition into various other fiber routing systems. The *FIBERRUNNER* 2x2 *QUIKLOCK* Coupler is supplied pre-assembled and mechanically attaches without the need to use any tools or tighten any bolts.

The *FIBERRUNNER* 2x2 *QUIKLOCK* Coupler in conjunction with the *FIBER-DUCT* 2x2 Coupler is compatible with the following fiber routing systems:

1. ADC* 2x2 FiberGuide** System

   * ADC is a registered trademark of ADC Telecommunications, Inc.

   ** FiberGuide is a registered trademark of ADC Telecommunications, Inc.

2. Ditel*** 2x2 LIGHTRAX**** Fiber Raceway System

   *** Ditel is a trademark of Tyco Electronics Corporation.

   **** LIGHTRAX is a trademark of Tyco Electronics Corporation.

3. Newton***** 2x2 Fiber Cable Management System

   ***** Newton is a trademark of Newton Instrument Company, Inc.

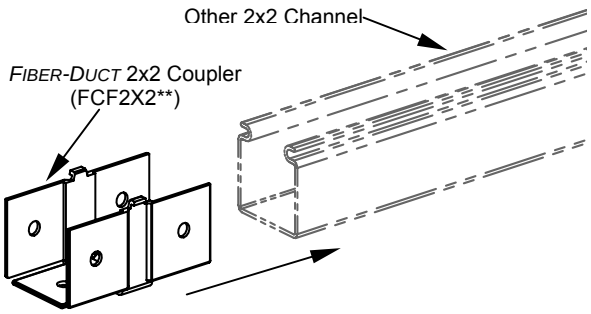
4. Tyton****** 2x2 Lightguide******* Fiber Optic Protection System

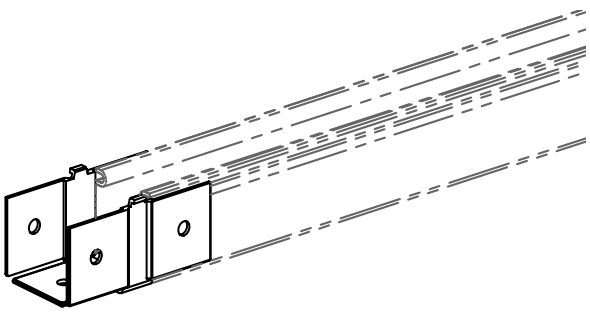
   ****** Tyton is a registered trademark of HellermannTyton Corporation.

   ******* Lightguide is a trademark of HellermannTyton Corporation.

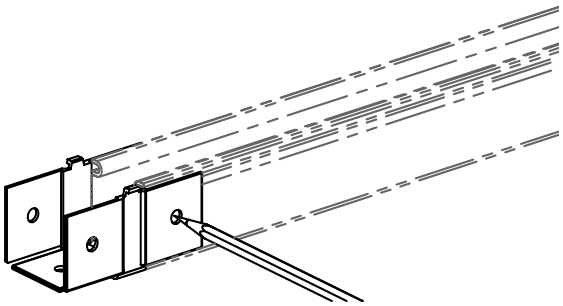
The *FIBERRUNNER* 2x2 *QUIKLOCK*™ Coupler and the *FIBER-DUCT*™ 2x2 Coupler can be easily installed as follows:

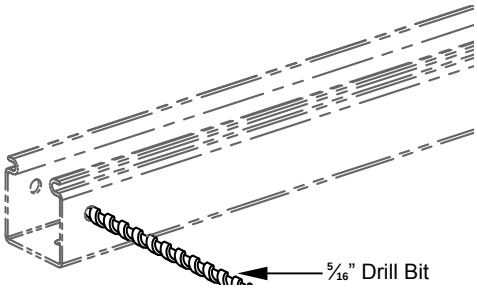
1. Align the extended flanges of the *FIBER-DUCT* 2x2 Coupler with the profile of the other channel section. Please note that the left and right extended flanges should be aligned with the outside of the channel section while the lower extended flange is aligned with the inside of the channel section. Once aligned slide the coupler over the end of the other channel section until the coupler is completely seated against the channel profile.



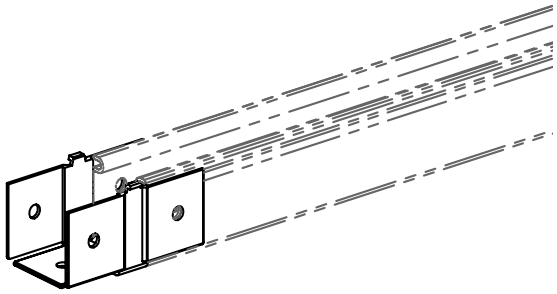


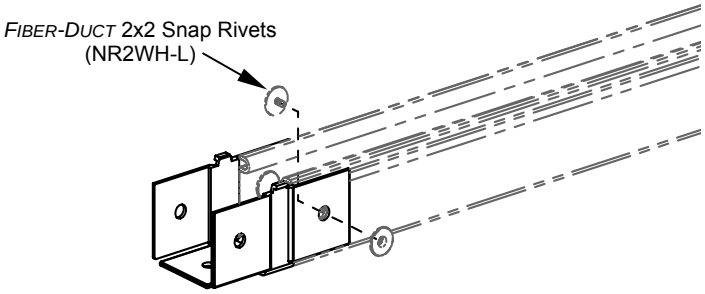
2. With the coupler held in place against the other channel section, mark all three (3) mounting hole locations of the coupler on to the channel section. Remove the coupler and with a 5⁄16" diameter drill bit create three (3) mounting holes in the other channel. Please note that before the drilling operation begins, that all cables, etc. are out of the path of the drilling bit.



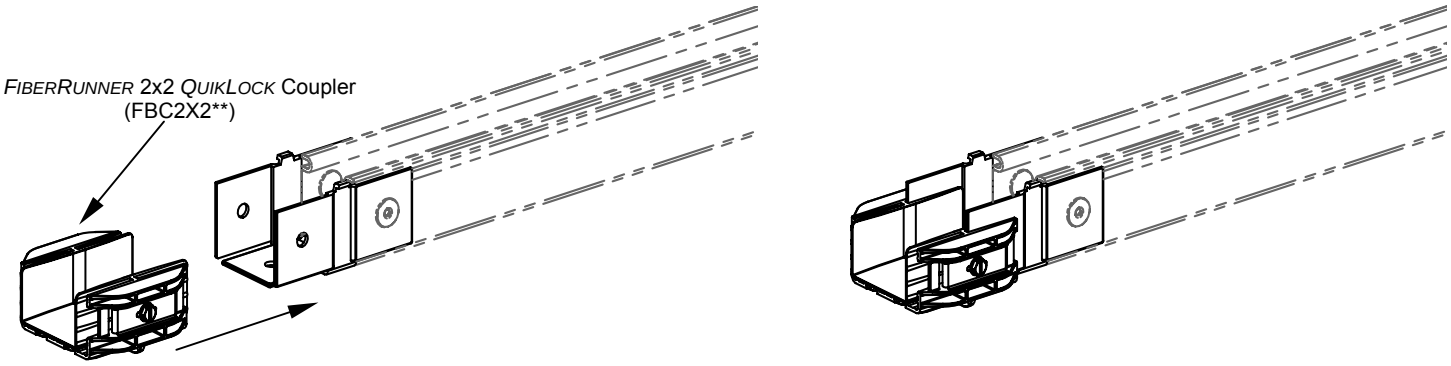


3. Reattach the coupler and realign all three (3) of the mounting holes. With the coupler held in place, install the *FIBER-DUCT* 2x2 Snap Rivets to secure the installation. To ensure a smooth interior surface, it is recommended that the female rivet be used on the outside surfaces of the coupler. Also note that each *FIBER-DUCT* 2x2 Coupler will use three (3) snap rivets. The Plastic Wing Nut and Screw Kit and/or the Plastic Hex Nut and Screw Kit can be used in lieu of the *FIBER-DUCT* 2x2 Snap Rivets.

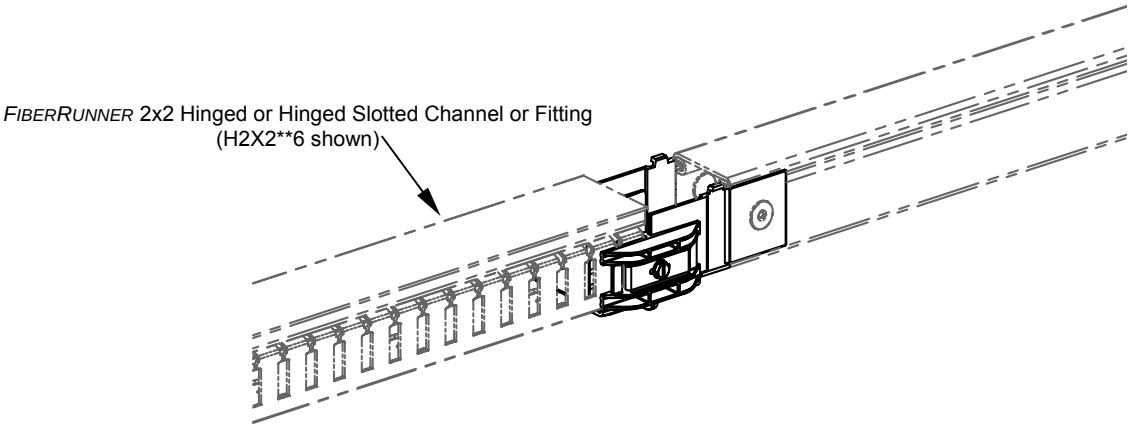




4. With the *FIBER-DUCT*™ 2x2 Coupler secured to the competitive channel section, line up the extended ribs of the *FIBERRUNNER* 2x2 *QUIKLOCK*™ Coupler with the extended flange of the *FIBER-DUCT* 2x2 Coupler. Once aligned, push the *FIBERRUNNER* 2x2 *QUIKLOCK* Coupler and the *FIBER-DUCT* 2x2 Coupler together until the *FIBER-DUCT* 2x2 Coupler is seated against the inner rib of the *FIBERRUNNER* 2x2 *QUIKLOCK* Coupler. Please note that the slight amount of resistance that is felt is normal, indicating that the metal barbs of the *FIBERRUNNER* 2x2 *QUIKLOCK* Coupler have engaged the surface of the *FIBER-DUCT* 2x2 Coupler.

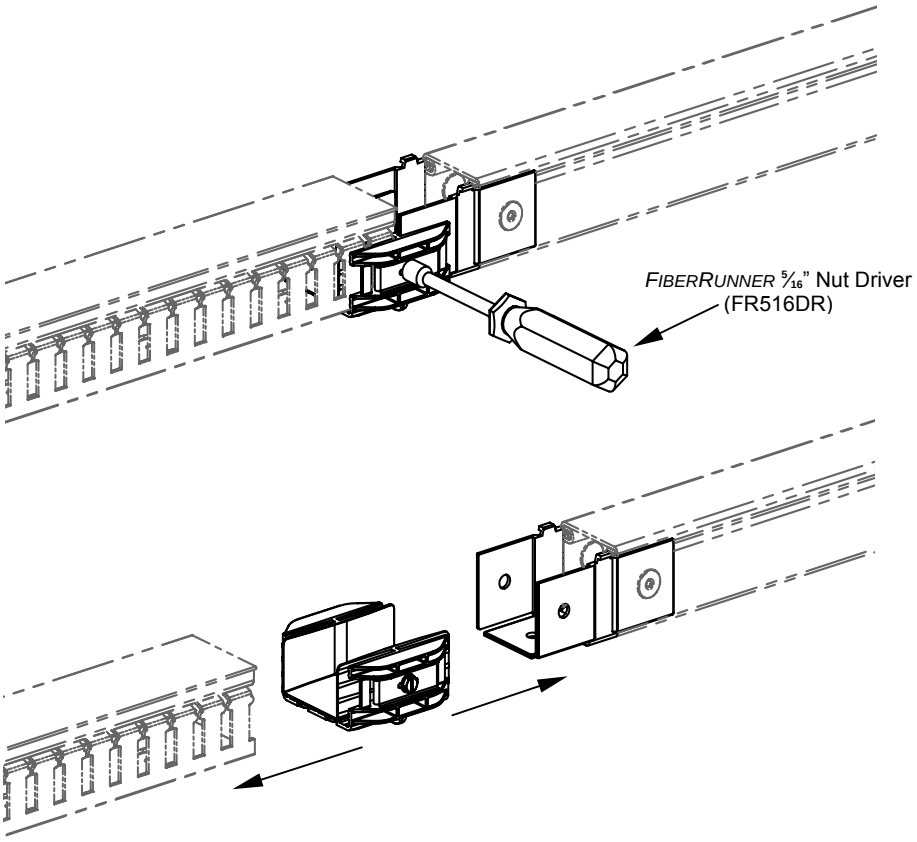


5. With the *FIBERRUNNER* 2x2 *QUIKLOCK* Coupler in place, a section of *FIBERRUNNER* 2x2 Hinged or Hinged Slotted Channel and/or *FIBERRUNNER* 2x2 fitting can be installed to continue the fiber pathway.

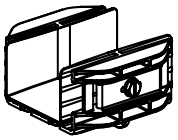


In the event that disassembly is required, connections made with the *FIBERRUNNER* 2x2 *QUIKLOCK*™ Coupler can be easily disconnected as follows:

1. Using the *FIBERRUNNER* 5/16" Nut Driver loosen both of the bolts on the outside of the coupler. Please note that any standard 5/16" nut driver will work as well. Also note that the bolts only need to be loosened enough to allow the metal barbs to disengage the surfaces of the *FIBER-DUCT*™ 2x2 Coupler and the *FIBERRUNNER* 2x2 Hinged or Hinged Slotted Channel. Once loosened the connection can be easily pulled apart.



2. The bolts of the coupler can then be re-tightened. Please be aware not to over tighten the bolts. Once tightened, the *FIBERRUNNER* 2x2 *QUIKLOCK* Coupler is ready for use once again.



Part numbers described in this section:

FBC2X2** - *FIBERRUNNER* 2x2 *QUIKLOCK* Coupler

Part numbers referenced in this section:

FCF2X2** - *FIBER-DUCT* 2x2 Coupler
NR2WH-L – *FIBER-DUCT* 2x2 Snap Rivets
F14PWN-L – Plastic Wing Nut and Screw Kit
F14PN-L – Plastic Hex Nut and Screw Kit
HS2X2**6 – *FIBERRUNNER* 2x2 Hinged Channel
H2X2**6 – *FIBERRUNNER* 2x2 Hinged Slotted Channel
FR516DR – *FIBERRUNNER* 5/16" Nut Driver

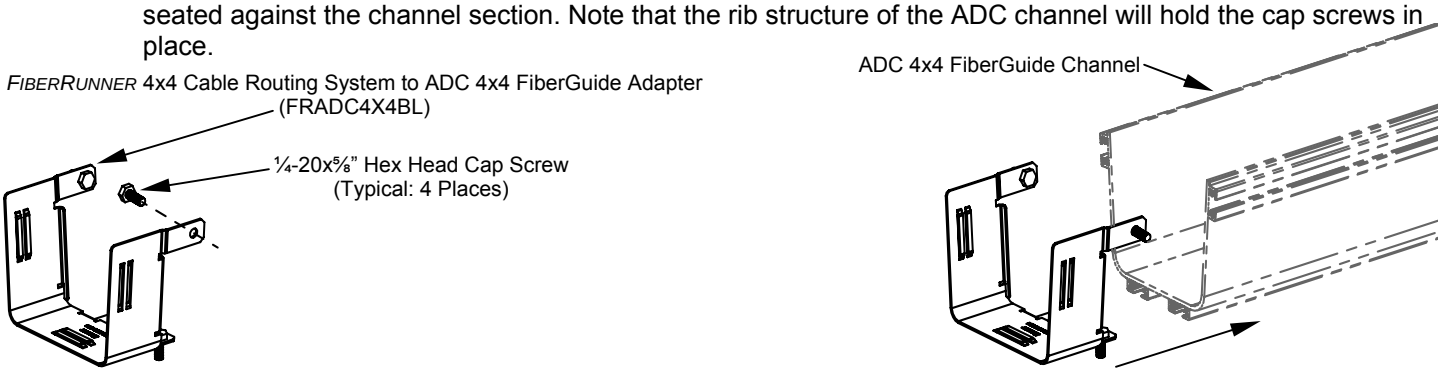
When ordering, replace ** in the part number with YL for Yellow, OR for Orange or BL for Black

1.2 *FIBERRUNNER* 4x4 Cable Routing System to ADC* 4x4 FiberGuide** System

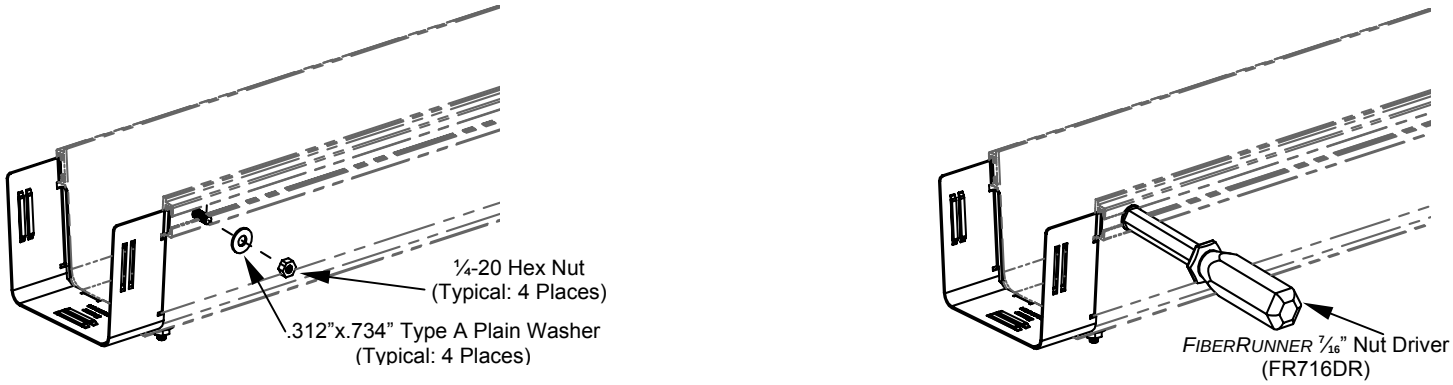
The *FIBERRUNNER* 4x4 Cable Routing System to ADC 4x4 FiberGuide Adapter when used with the *FIBERRUNNER* 4x4 *QUIKLOCK*™ Coupler allows the *FIBERRUNNER* 4x4 Cable Routing System to transition into or out of the ADC 4x4 FiberGuide System. The adapter slides into the rib structure of the ADC 4x4 FiberGuide Channel and is secured with four (4) ¼-20x⅝" Hex Head Cap Screws, four (4) .312"x.734" Type A Plain Washers and four (4) ¼-20 Hex Nuts (included).

The *FIBERRUNNER* 4x4 Cable Routing System to ADC 4x4 FiberGuide Adapter can be easily installed as follows:

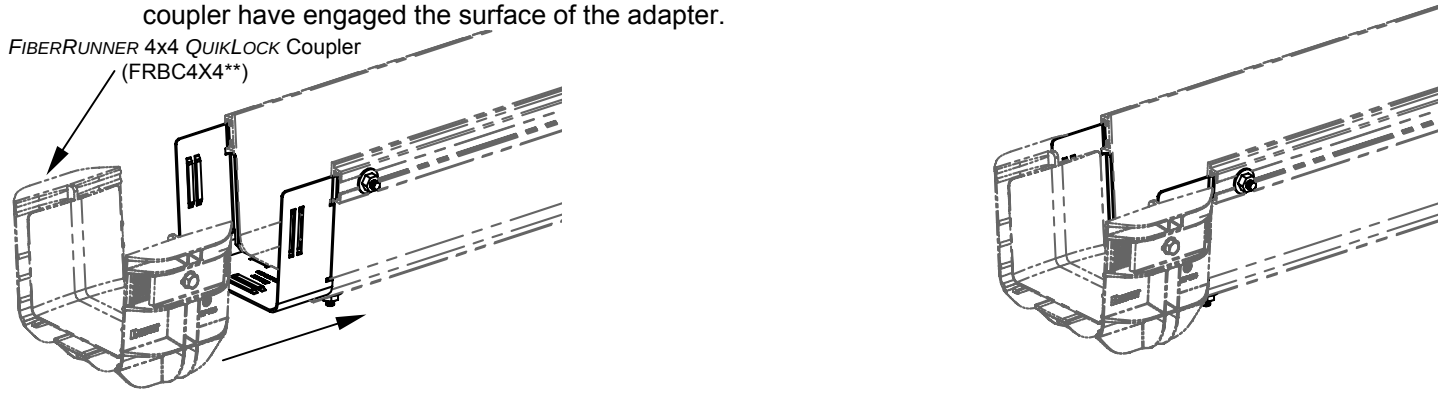
1. Insert one (1) of the ¼-20x⅝" Hex Head Cap Screws into each of the mounting holes on the adapter. Be sure that all four (4) of the cap screws are pointing outward away from the adapter. With the cap screws in place, slide the adapter into the rib structure of the ADC 4x4 FiberGuide Channel until the adapter is completely seated against the channel section. Note that the rib structure of the ADC channel will hold the cap screws in place.



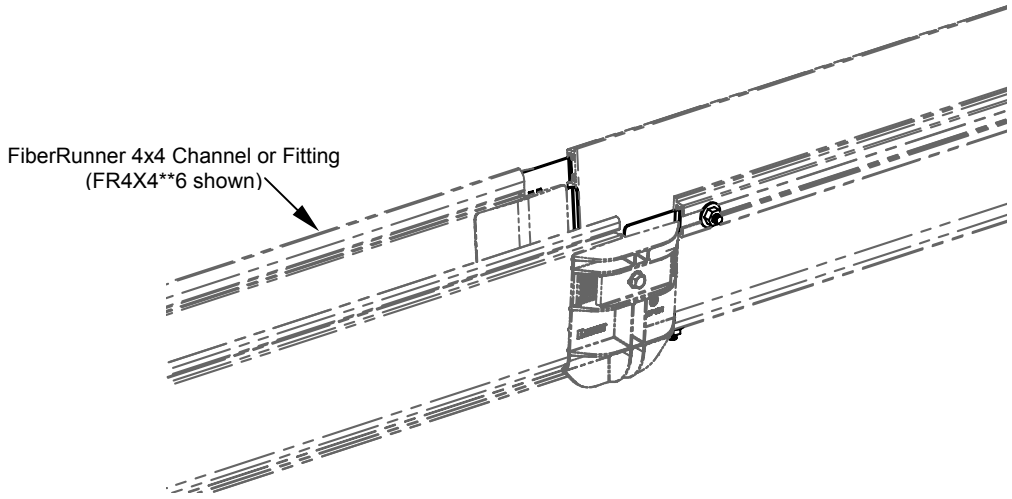
2. Install one (1) of the .312"x.734" Type A Plain Washers and thread one (1) of the ¼-20 Hex Nuts on to each of the cap screws and hand tighten. Tighten all four (4) of the ¼-20 Hex Nuts using the *FIBERRUNNER* 7/16" Nut Driver to secure the adapter installation. Please note that any standard 7/16" nut driver will work as well. If the use of hand tools is not preferred a nonmagnetic *FIBERRUNNER* 7/16" Nut Driver Bit is also available.



3. With the adapter secured to the ADC 4x4 FiberGuide Channel, align the extended ribs of the *FIBERRUNNER* 4x4 *QUIKLOCK* Coupler with the *FIBERRUNNER* 4x4 Cable Routing System side of the adapter. Once aligned, push the adapter and the coupler together until the adapter is seated against the inner rib of the coupler. Please note that the slight amount of resistance that is felt is normal, indicating that the metal barbs of the coupler have engaged the surface of the adapter.



4. With *THE FIBERRUNNER* 4x4 *QUIKLOCK*™ Coupler in place a section of *FIBERRUNNER* 4x4 Channel and/or any *FIBERRUNNER* 4x4 fitting can be installed to continue the fiber pathway.



Part numbers described in this section:

FRADC4X4BL - *FIBERRUNNER* 4x4 Cable Routing System to ADC 4x4 FiberGuide Adapter

Part numbers referenced in this section:

FRBC4X4** - *FIBERRUNNER* 4x4 *QUIKLOCK* Coupler
FR4X4**6 – *FIBERRUNNER* 4x4 Channel
FR716DR – *FIBERRUNNER* 7/16" Nut Driver
FR716BIT – *FIBERRUNNER* 7/16" Nut Driver Bit

When ordering, replace ** in the part number with YL for Yellow, OR for Orange or BL for Black

* ADC is a registered trademark of ADC Telecommunications, Inc.

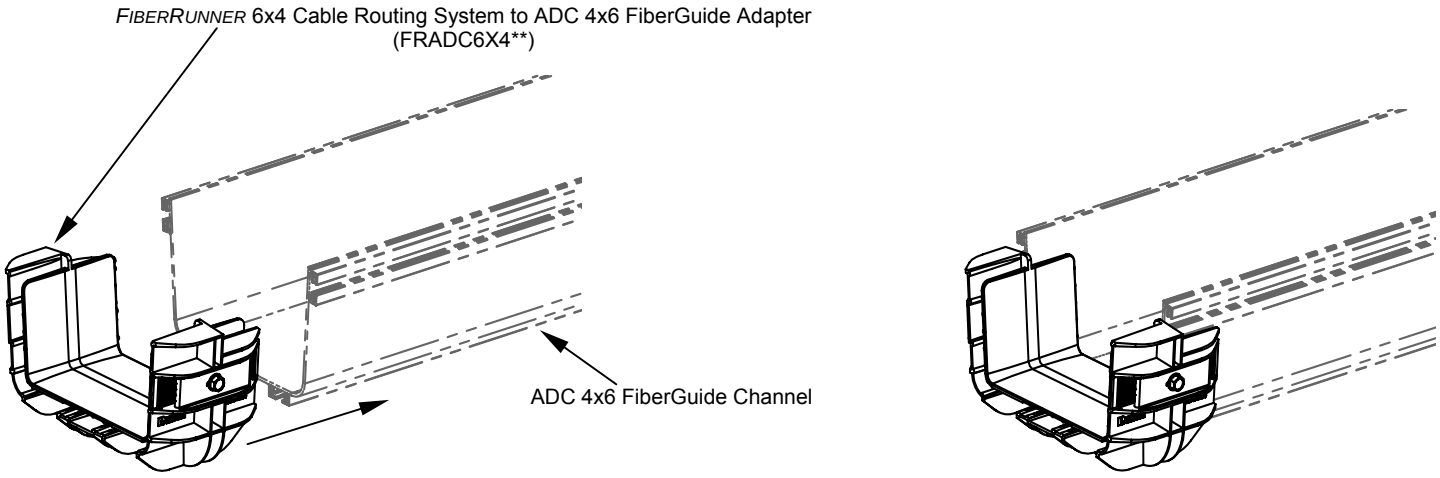
** FiberGuide is a registered trademark of ADC Telecommunications, Inc.

1.3 *FIBERRUNNER* 6x4 Cable Routing System to ADC* 4x6 FiberGuide** System

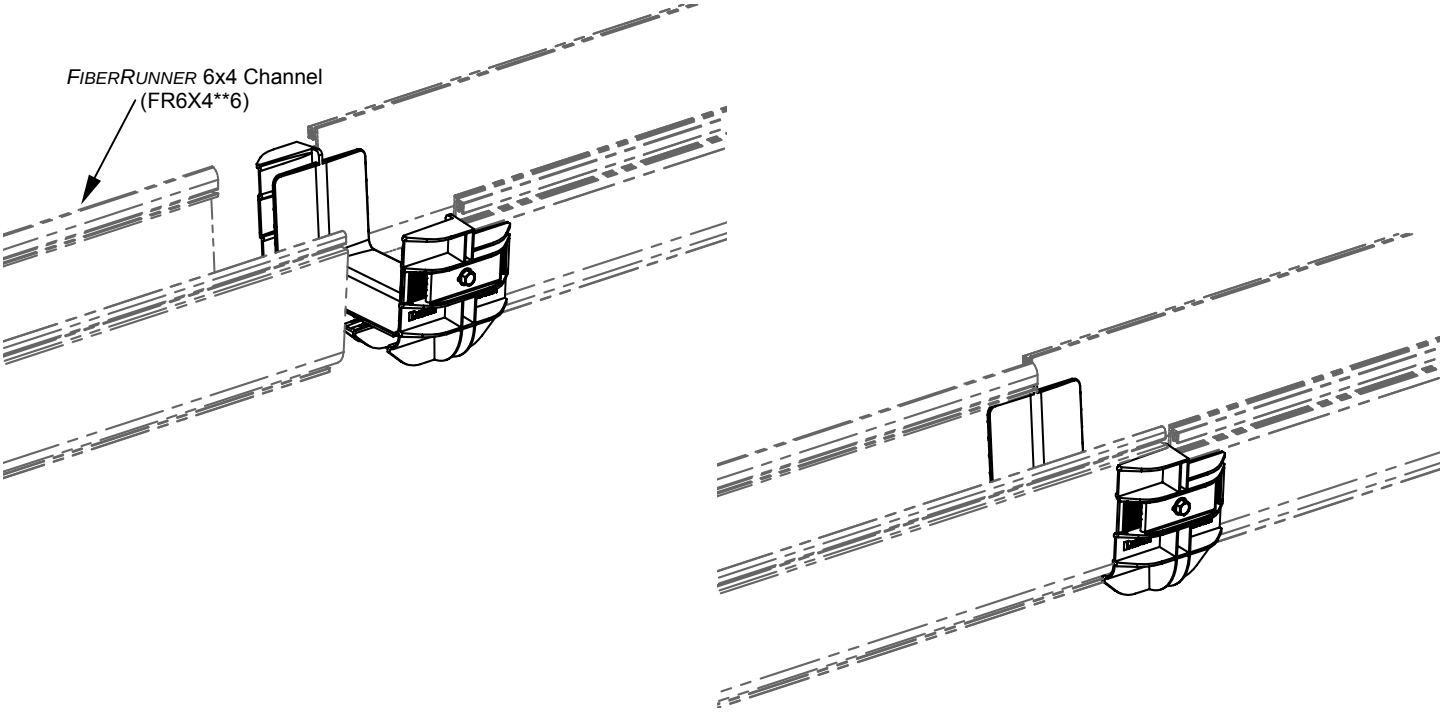
The *FIBERRUNNER* 6x4 Cable Routing System to ADC 4x6 FiberGuide Adapter allows the *FIBERRUNNER* 6x4 Cable Routing System to transition into or out of the ADC 4x6 FiberGuide System. The adapter utilizes the same *QUIKLOCK*™ feature as the *FIBERRUNNER* 6x4 *QUIKLOCK* Coupler and is supplied pre-assembled and mechanically attaches without the need to use any tools or tighten any bolts.

The *FIBERRUNNER* 6x4 Cable Routing System to ADC 4x6 FiberGuide Adapter can be easily installed as follows:

1. Align the ADC 4x6 FiberGuide Channel with the extended ribs of the ADC side of the adapter. Once aligned, push the adapter and channel together until the channel is seated against the inner rib of the adapter. Please note that the slight amount of resistance that is felt is normal, indicating that the metal barbs of the adapter have engaged the surface of the channel.

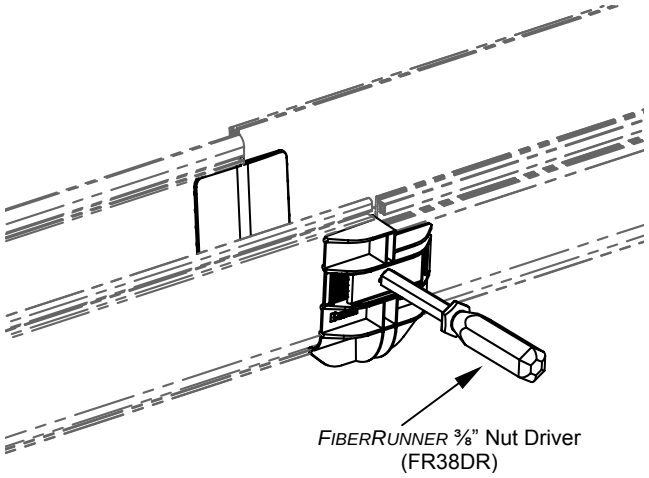


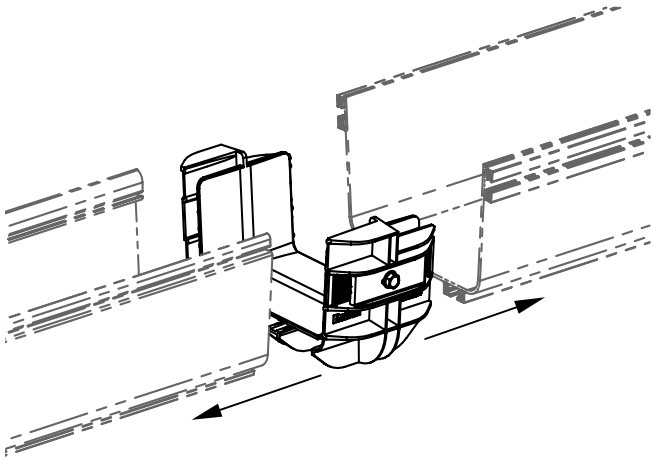
2. Next, align the *FIBERRUNNER* 6x4 Channel and/or fitting with the extended ribs of the *FIBERRUNNER* Cable Routing System side of the adapter. Once aligned, push the adapter and channel/fitting together until the channel/fitting is seated against the inner rib of the adapter.



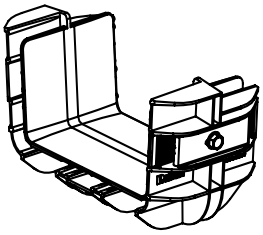
In the event that disassembly is required, connections made with the *FIBERRUNNER* 6x4 Cable Routing System to ADC 4x6 FiberGuide Adapter can be easily disconnected as follows:

1. Using the *FIBERRUNNER* ⅜" Nut Driver loosen all of the bolts on the outside of the adapter. Please note that any standard ⅜" nut driver will work as well. If the use of hand tools is not preferred a nonmagnetic *FIBERRUNNER* ⅜" Nut Driver Bit is also available. Also note that the bolts only need to be loosened enough to allow the metal barbs to disengage the surface of the channel section and/or fitting. Once loosened the connection can be easily pulled apart.





2. The bolts of the adapter can then be re-tightened. Please be aware not to over tighten the bolts. Once tightened, the *FIBERRUNNER* 6x4 Cable Routing System to ADC 4x6 FiberGuide Adapter is ready for use once again.



Part numbers described in this section:

FRADC6X4** - *FIBERRUNNER* 6x4 Cable Routing System to ADC 4x6 FiberGuide Adapter

Part numbers referenced in this section:

FR6X4**6 – *FIBERRUNNER* 6x4 Channel
FR38DR - *FIBERRUNNER* ⅜" Nut Driver
FR38BIT – *FIBERRUNNER* ⅜" Nut Driver Bit

When ordering, replace ** in the part number with YL for Yellow, OR for Orange or BL for Black

* ADC is a registered trademark of ADC Telecommunications, Inc.

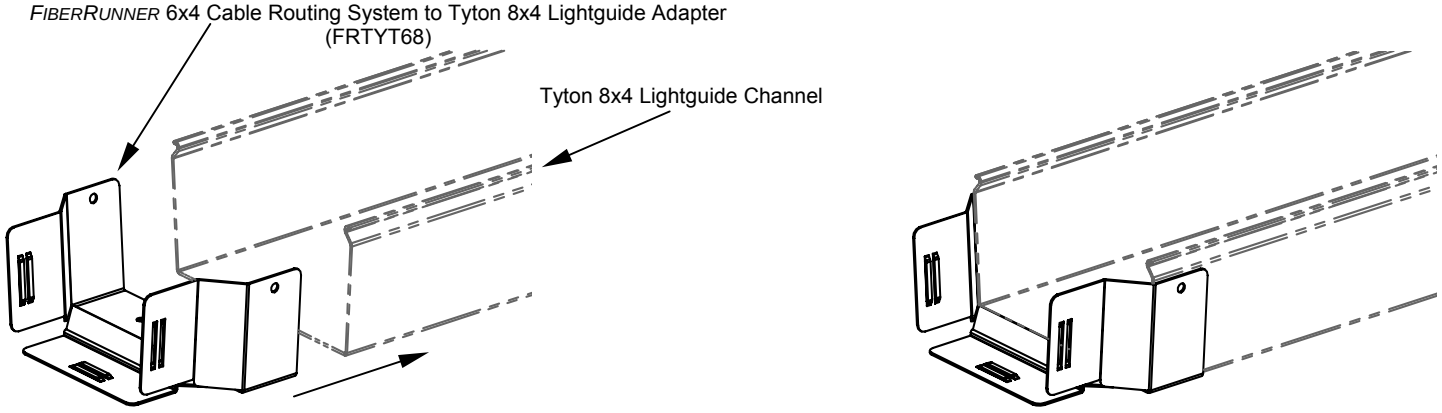
** FiberGuide is a registered trademark of ADC Telecommunications, Inc.

1.4 *FIBERRUNNER* 6x4 Cable Routing System to Tyton* 8x4 Lightguide** Fiber Optic Protection System

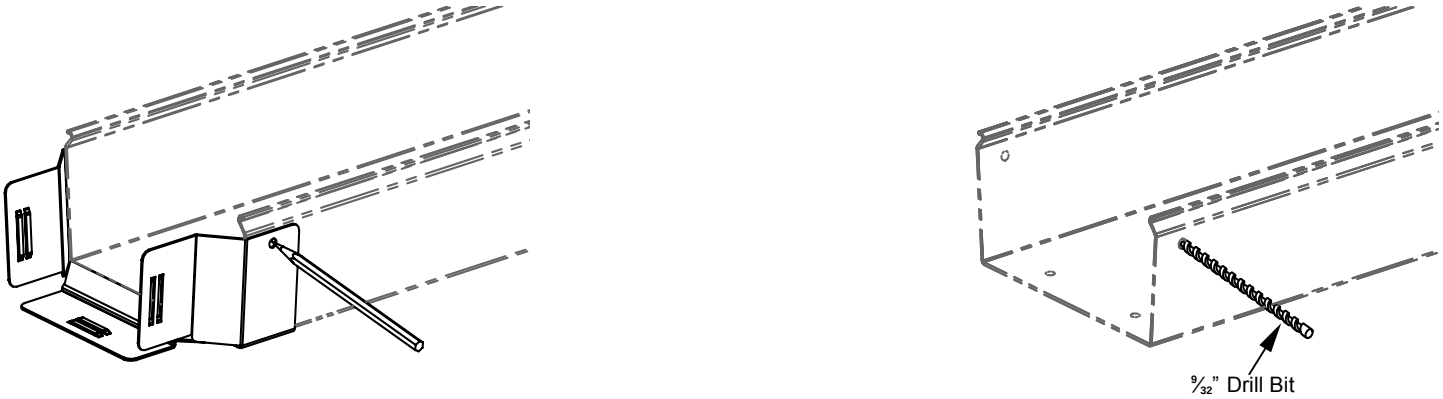
The *FIBERRUNNER* 6x4 Cable Routing System to Tyton 8x4 Lightguide Adapter when used with the *FIBERRUNNER* 6x4 *QUIKLOCK*™ Coupler allows the *FIBERRUNNER* 6x4 Cable Routing System to transition into or out of the Tyton 8x4 Lightguide Fiber Optic Protection System. The adapter slides over the Tyton 8x4 Lightguide Channel and is secured with four (4) ¼-20x⅝" Nylon Phillips Binder Head Screws and four (4) ¼-20 Nylon Deco Wing Nuts (included).

The *FIBERRUNNER* 6x4 Cable Routing System to Tyton 8x4 Lightguide Adapter can be easily installed as follows:

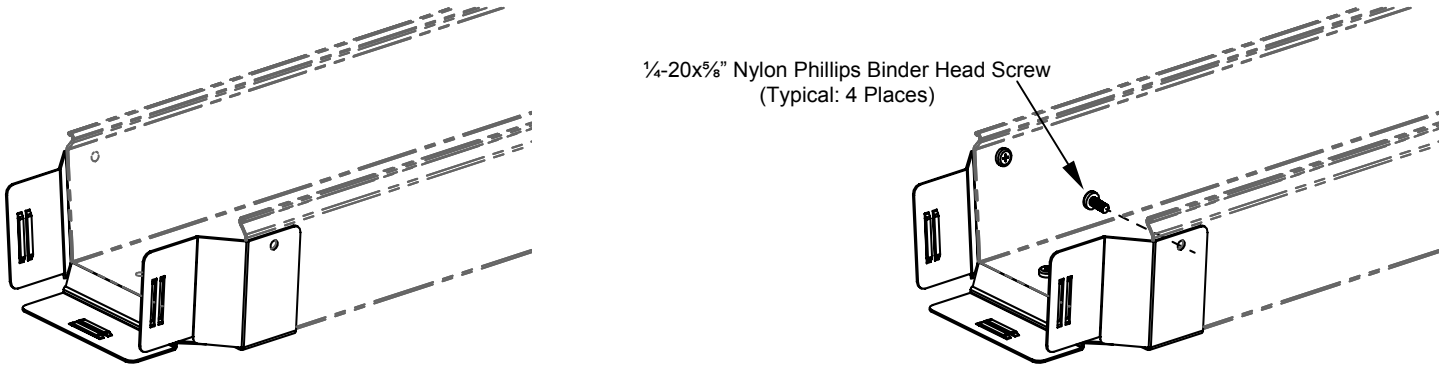
1. Align the profile of the Tyton 8x4 Lightguide Channel with the inside of the adapter. Slide the adapter over the end of the channel until the adapter is completely seated against the channel profile.

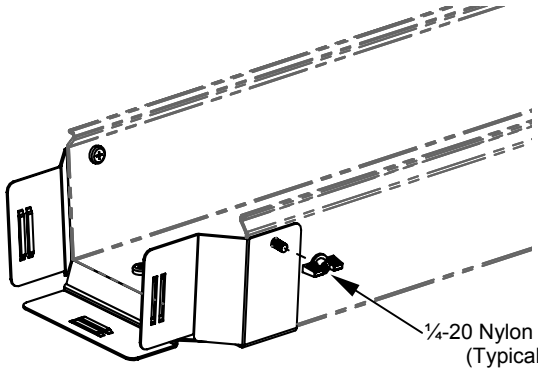


2. With the adapter held in place, mark all four (4) mounting hole locations of the adapter on to the channel section. Remove the adapter and with a 9/32" diameter drill bit create four (4) mounting holes in the channel. Please note that before the drilling operation begins, that all cables, etc. are out of the path of the drilling bit.

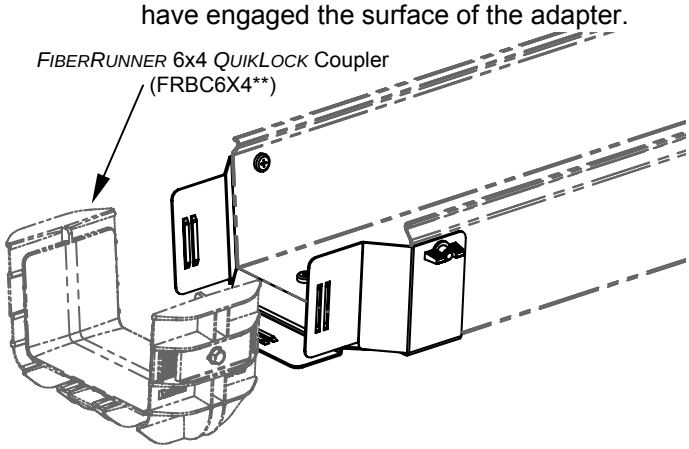


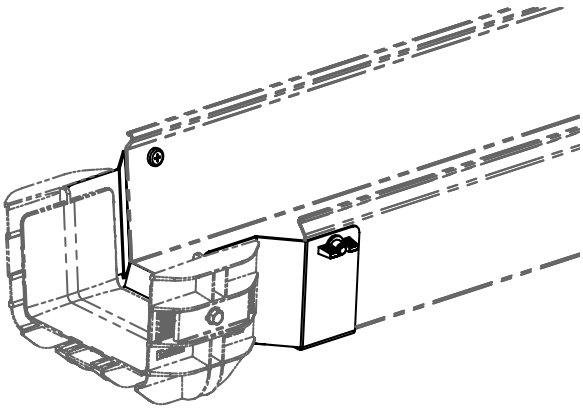
3. Reattach the adapter and realign all four (4) of the mounting holes. With the adapter held in place, insert one (1) of the ¼-20x⅝" Nylon Phillips Binder Head Screws through each of the mounting holes from the inside of the channel. Be sure that all four (4) of the cap screws are pointing outward away from the adapter. Thread one (1) of the ¼-20 Nylon Deco Wing Nuts on to each of the binder head screws and hand tighten.



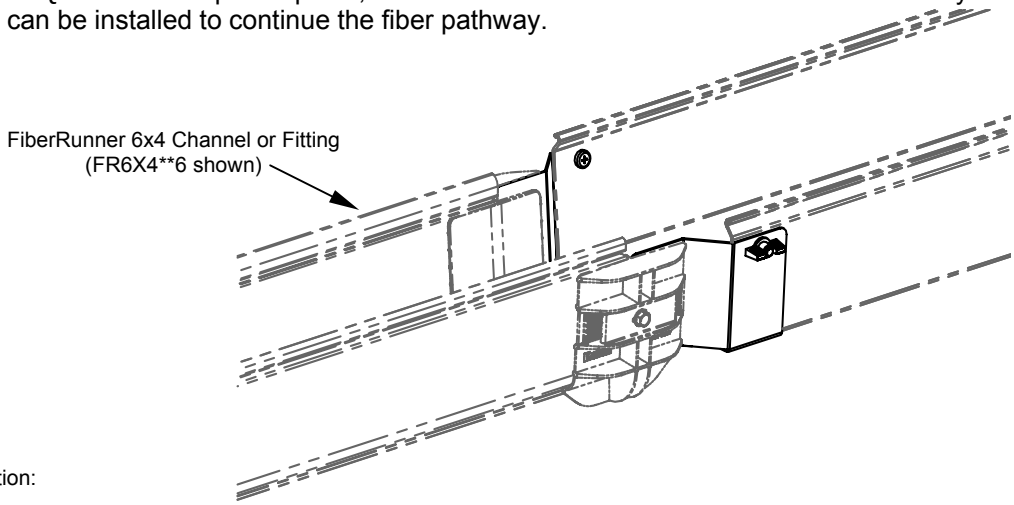


4. With the adapter secure to the Tyton 8x4 Lightguide Channel, align the extended ribs of the *FIBERRUNNER* 6x4 *QUIKLOCK*™ Coupler with the *FIBERRUNNER* Cable Routing System side of the adapter. Once aligned, push the adapter and the coupler together until the adapter is seated against the inner rib of the coupler. Please note that the slight amount of resistance that is felt is normal, indicating that the metal barbs of the coupler have engaged the surface of the adapter.





5. With the *FIBERRUNNER* 6x4 *QUIKLOCK* Coupler in place, a section of *FIBERRUNNER* 6x4 Channel and/or any *FIBERRUNNER* 6x4 fitting can be installed to continue the fiber pathway.



Part numbers described in this section:

FRTYT68 - *FIBERRUNNER* 6x4 Cable Routing System to Tyton 8x4 Lightguide Adapter

Part numbers referenced in this section:

FRBC6X4** - *FIBERRUNNER* 6x4 *QUIKLOCK* Coupler
FR6X4**6 – *FIBERRUNNER* 6x4 Channel

When ordering, replace ** in the part number with YL for Yellow, OR for Orange or BL for Black

* Tyton is a registered trademark of HellermannTyton Corporation.

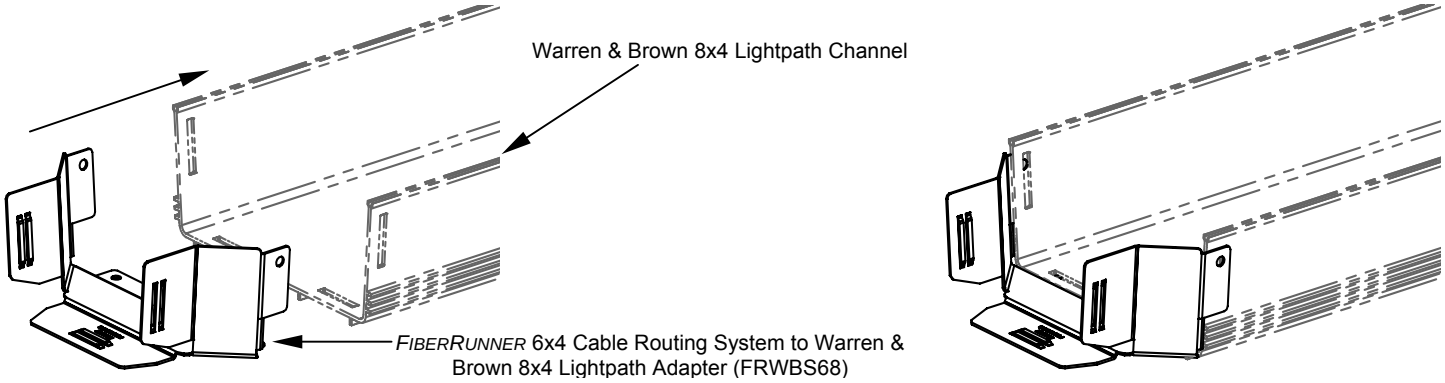
** Lightguide is a trademark of HellermannTyton Corporation.

1.5 *FIBERRUNNER* 6x4 Cable Routing System to Warren & Brown* 8x4 Lightpath** Duct System

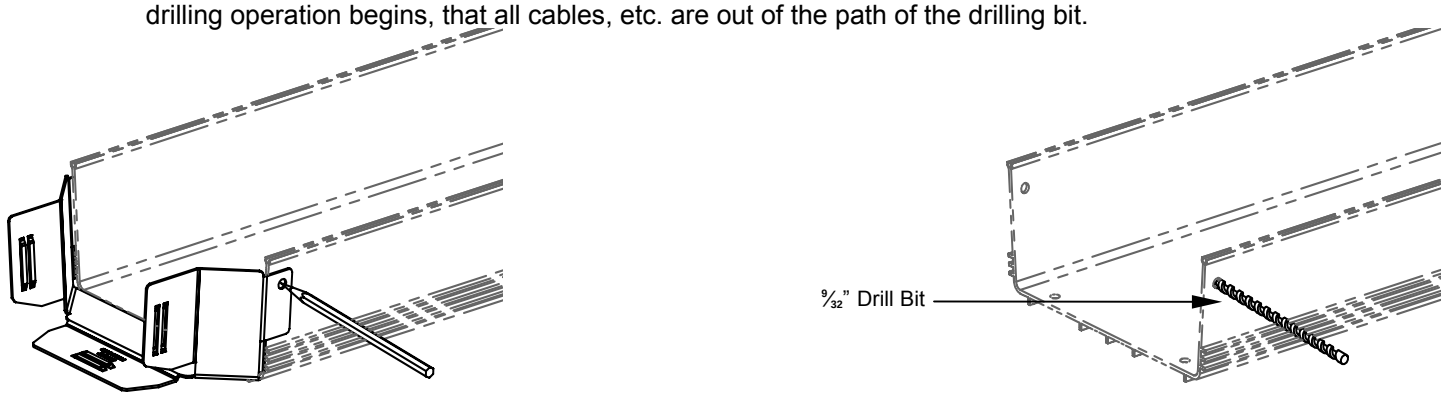
The *FIBERRUNNER* 6x4 Cable Routing System to Warren & Brown 8x4 Lightpath Adapter when used with the *FIBERRUNNER* 6x4 *QUIKLOCK*™ Coupler allows the *FIBERRUNNER* 6x4 Cable Routing System to transition into or out of the Warren & Brown 8x4 Lightpath Duct System. The adapter slides over the Warren & Brown 8x4 Lightpath Channel and is secured with four (4) ¼-20x⅝" Nylon Phillips Binder Head Screws and four (4) ¼-20 Nylon Deco Wing Nuts (included).

The *FIBERRUNNER* 6x4 Cable Routing System to Warren & Brown 8x4 Lightpath Adapter can be easily installed as follows:

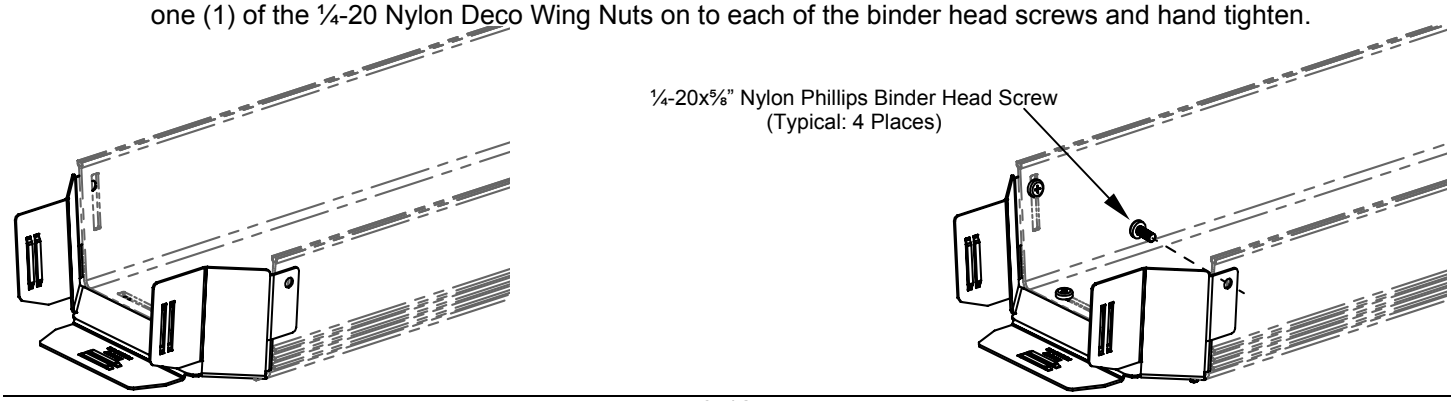
1. Align the profile of the Warren & Brown 8x4 Lightpath Channel with the inside of the adapter. Slide the adapter over the end of the channel until the adapter is completely seated against the channel profile.

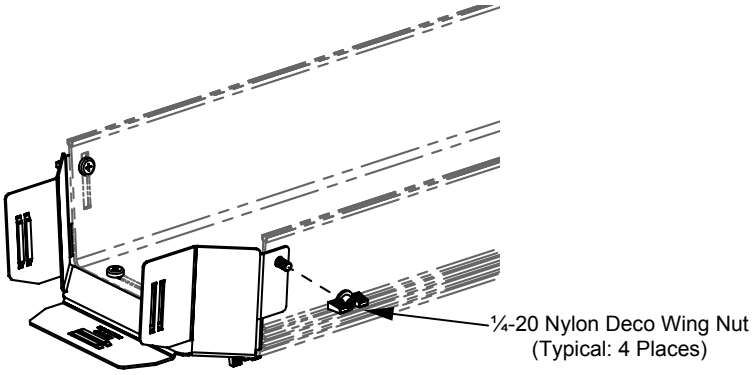


2. Align the four (4) factory installed slots on the Warren & Brown 8x4 Lightpath Channel with the four (4) mounting holes on the adapter. If the factory installed slots are not available, hold the adapter in place and mark all four (4) of the mounting hole locations of the adapter on to the channel section. Remove the adapter and with a 9/32" diameter drill bit create four (4) mounting holes in the channel. Please note that before the drilling operation begins, that all cables, etc. are out of the path of the drilling bit.

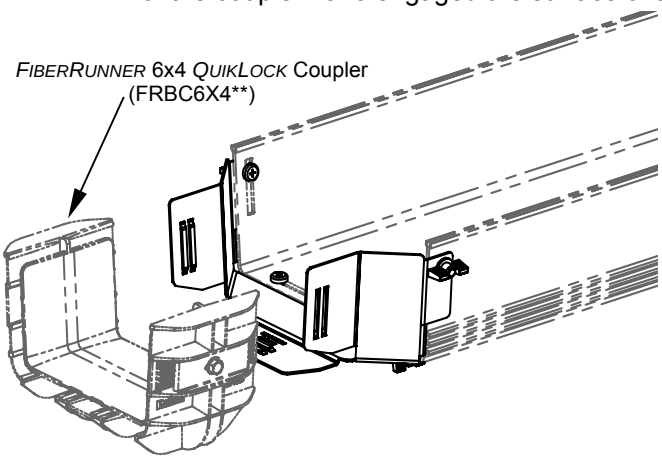


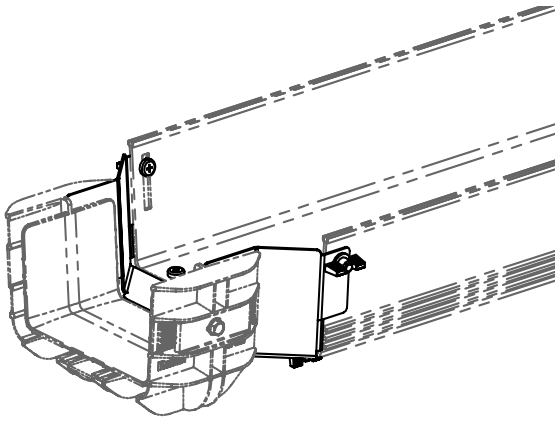
3. Reattach the adapter and realign all four (4) of the mounting holes. With the adapter held in place, insert one (1) of the ¼-20x⅝" Nylon Phillips Binder Head Screws through each of the mounting holes from the inside of the channel. Be sure that all four (4) of the cap screws are pointing outward away from the adapter. Thread one (1) of the ¼-20 Nylon Deco Wing Nuts on to each of the binder head screws and hand tighten.



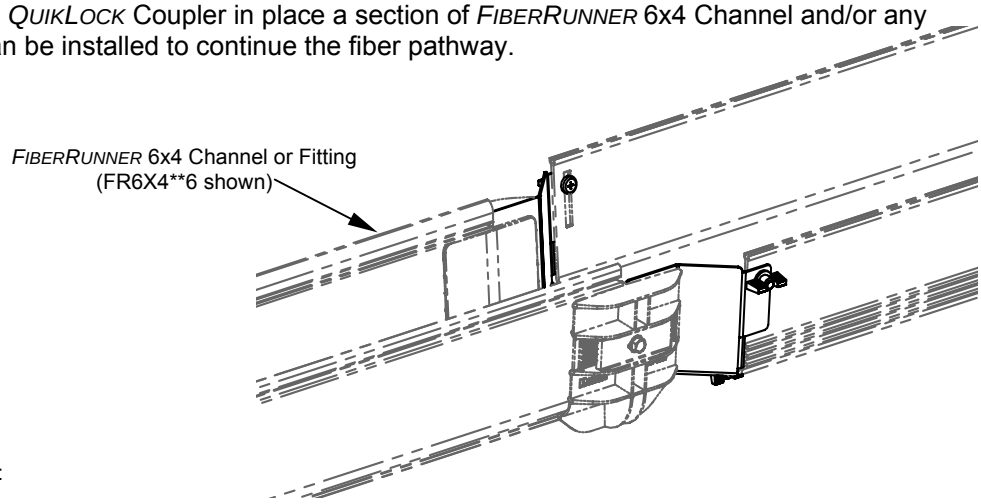


4. With the adapter secure to the Warren & Brown 8x4 Lightpath Channel, align the extended ribs of the *FIBERRUNNER* 6x4 *QUIKLOCK*™ Coupler with *FIBERRUNNER* Cable Routing System side of the adapter. Once aligned, push the adapter and the coupler together until the adapter is seated against the inner rib of the coupler. Please note that the slight amount of resistance that is felt is normal, indicating that the metal barbs of the coupler have engaged the surface of the adapter.





5. With the *FIBERRUNNER* 6x4 *QUIKLOCK* Coupler in place a section of *FIBERRUNNER* 6x4 Channel and/or any *FIBERRUNNER* 6x4 fitting can be installed to continue the fiber pathway.



Part numbers described in this section:

FRWBS68 - *FIBERRUNNER* 6x4 Cable Routing System to Warren & Brown 8x4 Lightpath Adapter

Part numbers referenced in this section:

FRBC6X4** - *FIBERRUNNER* 6x4 *QUIKLOCK* Coupler
FR6X4**6 – *FIBERRUNNER* 6x4 Channel

When ordering, replace ** in the part number with YL for Yellow, OR for Orange or BL for Black

* Warren & Brown is a registered trademark of Warren & Brown Technologies Pty Ltd.

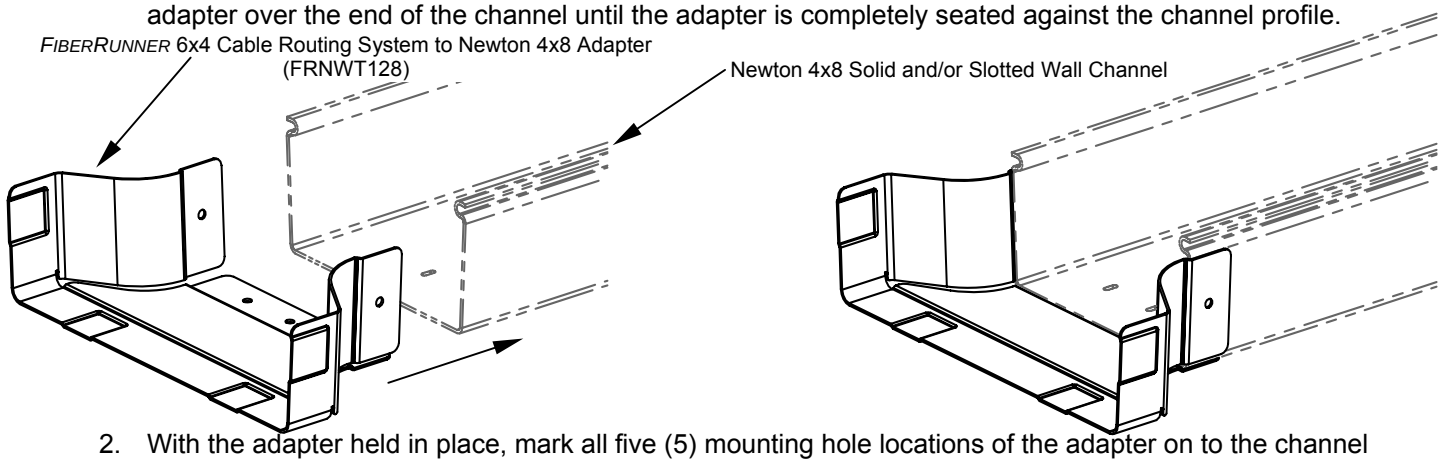
** Lightpath is a registered trademark of Warren & Brown Technologies Pty Ltd.

1.6 *FIBERRUNNER* 12x4 Cable Routing System to Newton* 4x8 Fiber Cable Management System

The *FIBERRUNNER* 12x4 Cable Routing System to Newton 4x8 Adapter when used with the *FIBERRUNNER* 12x4 *QUIKLOCK*™ Coupler allows the *FIBERRUNNER* 12x4 Cable Routing System to transition into or out of the Newton 4x8 Fiber Cable Management System. The adapter slides over the Newton 4x8 Solid and/or Slotted Wall Channel and is secured with the five (5) ¼-20x⅝" Nylon Phillips Binder Head Screws and five (5) ¼-20 Nylon Deco Wing Nuts (included).

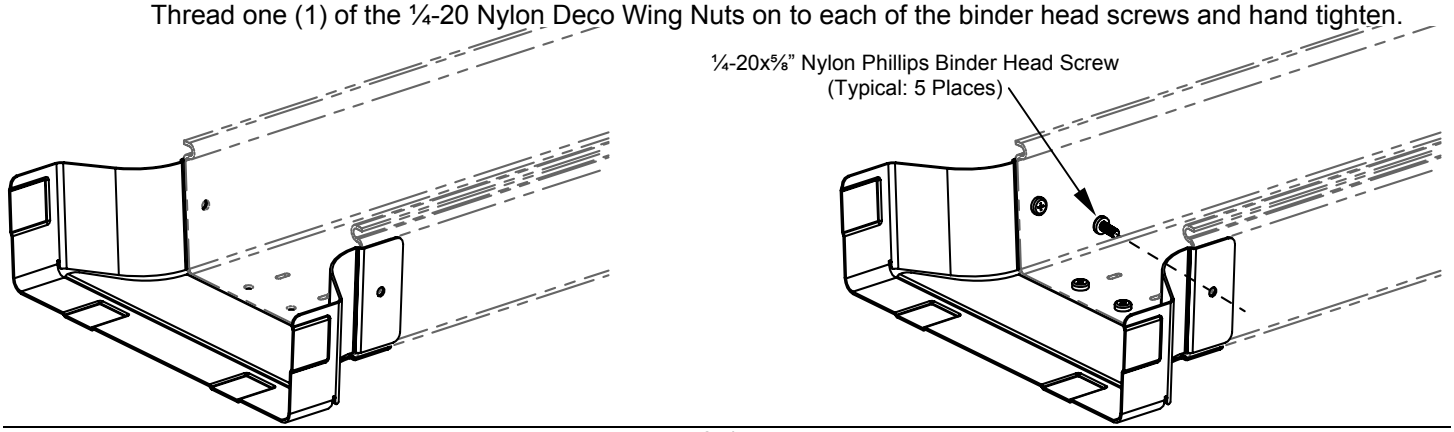
The *FIBERRUNNER* 12x4 Cable Routing System to Newton 4x8 Adapter can be easily installed as follows:

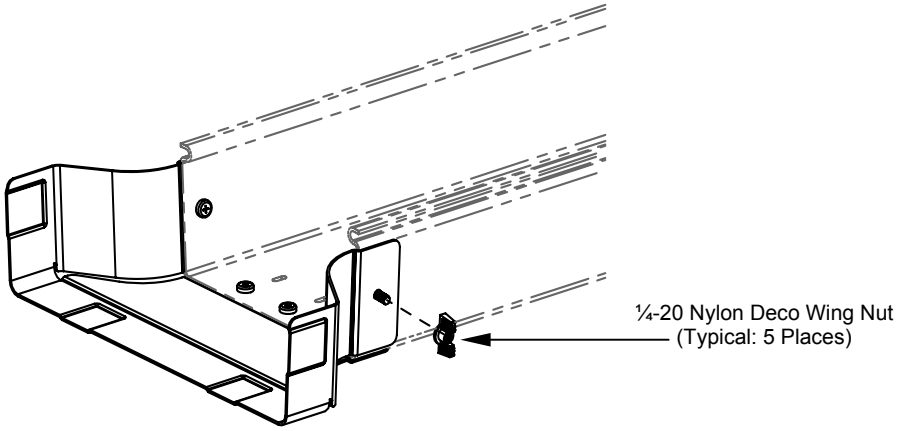
1. Align the profile of the Newton 4x8 Solid and/or Slotted Wall Channel with the inside of the adapter. Slide the adapter over the end of the channel until the adapter is completely seated against the channel profile.



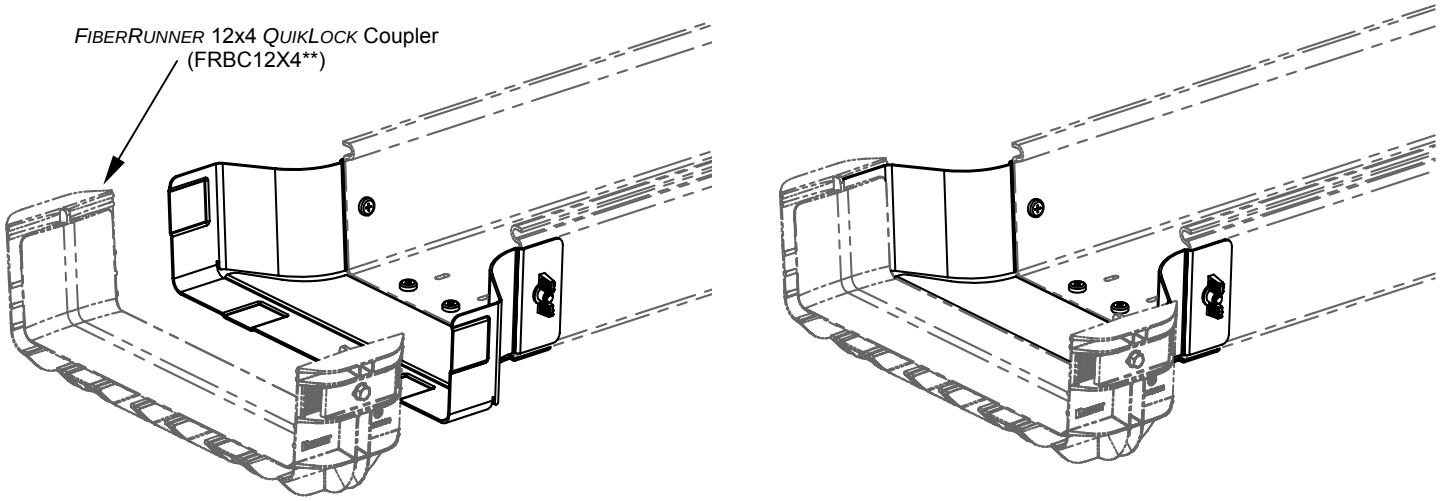
2. With the adapter held in place, mark all five (5) mounting hole locations of the adapter on to the channel section. Remove the adapter and with a 9/32" diameter drill bit create five (5) mounting holes in the channel. Please note that before the drilling operation begins, that all cables, etc. are out of the path of the drilling bit.

3. Reattach the adapter and realign all five (5) of the mounting holes. With the adapter held in place, insert one (1) of the ¼-20x⅝" Nylon Phillips Binder Head Screws through each of the mounting holes from the inside of the channel. Be sure that all five (5) of the binder head screws are pointing outward away from the adapter. Thread one (1) of the ¼-20 Nylon Deco Wing Nuts on to each of the binder head screws and hand tighten.

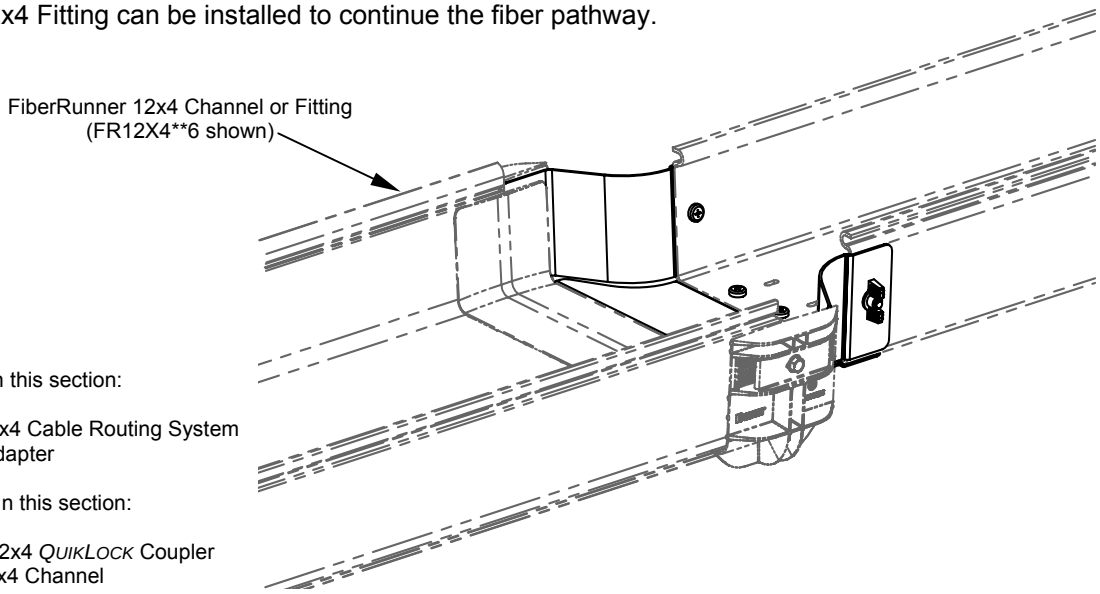




4. With the adapter secure to the Newton 4x8 Solid and/or Slotted Wall Channel, align the extended ribs of the *FIBERRUNNER* 12x4 *QUIKLOCK*™ Coupler with the *FIBERRUNNER* Cable Routing System side of the adapter. Once aligned, push the adapter and the coupler together until the adapter is seated against the inner rib of the coupler. Please note that the slight amount of resistance that is felt is normal, indicating that the metal barbs of the coupler have engaged the surface of the adapter.



5. With the *FIBERRUNNER* 12x4 *QUIKLOCK* Coupler in place, a section of *FIBERRUNNER* 12x4 Channel and/or any *FIBERRUNNER* 12x4 Fitting can be installed to continue the fiber pathway.



Part numbers described in this section:

FRNWT128 - *FIBERRUNNER* 12x4 Cable Routing System to Newton 4x8 Adapter

Part numbers referenced in this section:

FRBC12X4** - *FIBERRUNNER* 12x4 *QUIKLOCK* Coupler
FR12X4**6 – *FIBERRUNNER* 12x4 Channel

When ordering, replace ** in the part number with YL for Yellow, OR for Orange or BL for Black

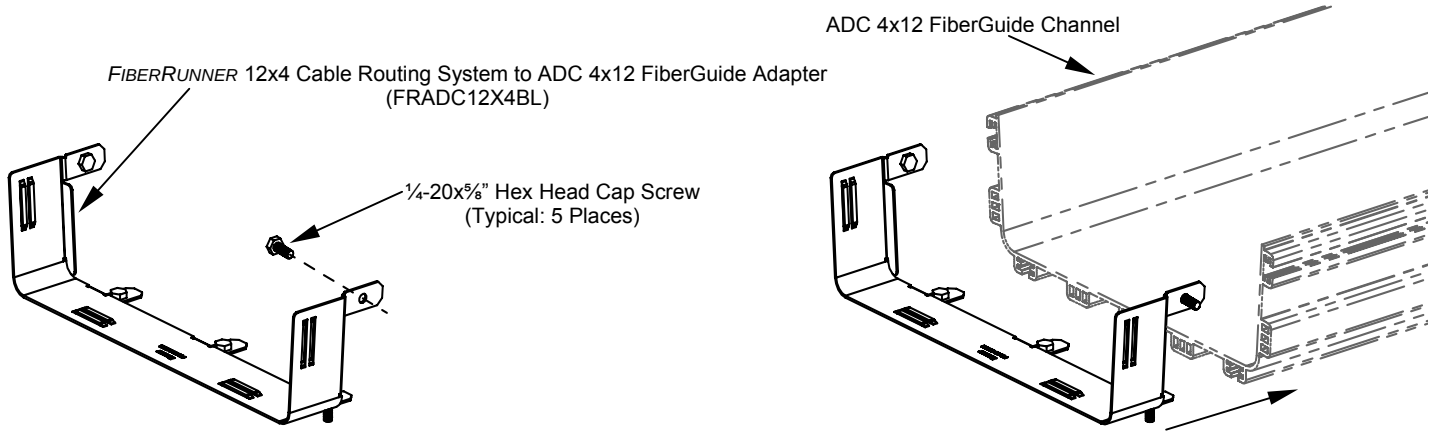
* Newton is a trademark of Newton Instrument Company, Inc.

1.7 *FIBERRUNNER* 12x4 Cable Routing System to ADC* 4x12 FiberGuide** System

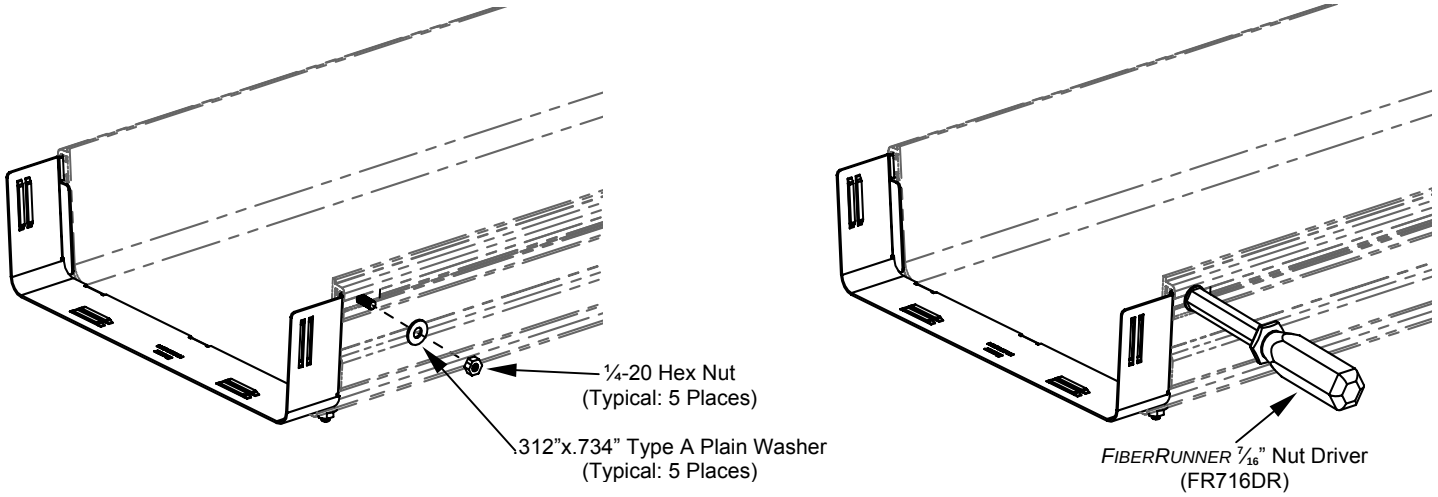
The *FIBERRUNNER* 12x4 Cable Routing System to ADC 4x12 FiberGuide Adapter when used with the *FIBERRUNNER* 12x4 *QUIKLOCK*™ Coupler allows the *FIBERRUNNER* 12x4 Cable Routing System to transition into or out of the ADC 4x12 FiberGuide System. The adapter slides into the rib structure of the ADC 4x12 FiberGuide Channel and is secured with five (5) ¼-20x⅝" Hex Head Cap Screws, five (5) .312"x.734" Type A Plain Washers and five (5) ¼-20 Hex Nuts (included).

The *FIBERRUNNER* 12x4 Cable Routing System to ADC 4x12 FiberGuide Adapter can be easily installed as follows:

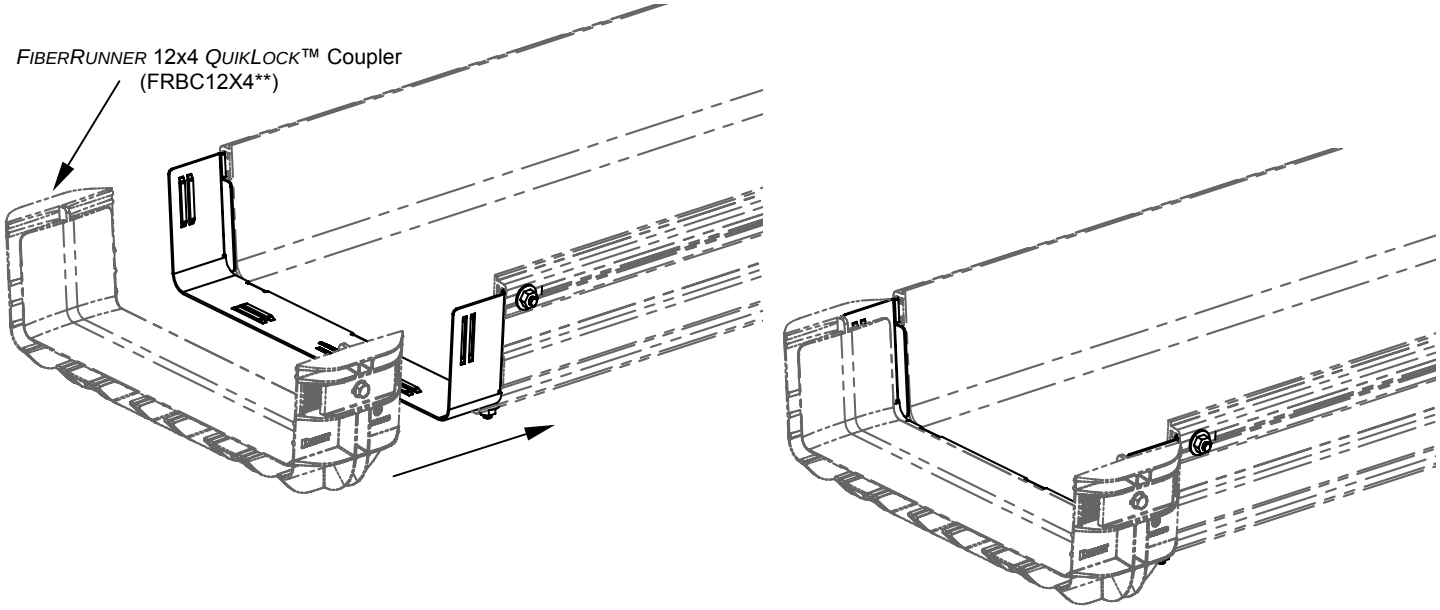
1. Insert one (1) of the ¼-20x⅝" Hex Head Cap Screws into each of the mounting holes on the adapter. Be sure that all five (5) of the cap screws are pointing outward away from the adapter. With the cap screws in place, slide the adapter into the rib structure of the ADC 4x4 FiberGuide Channel until the adapter is completely seated against the channel section. Note that the rib structure of the ADC channel will hold the cap screws in place.



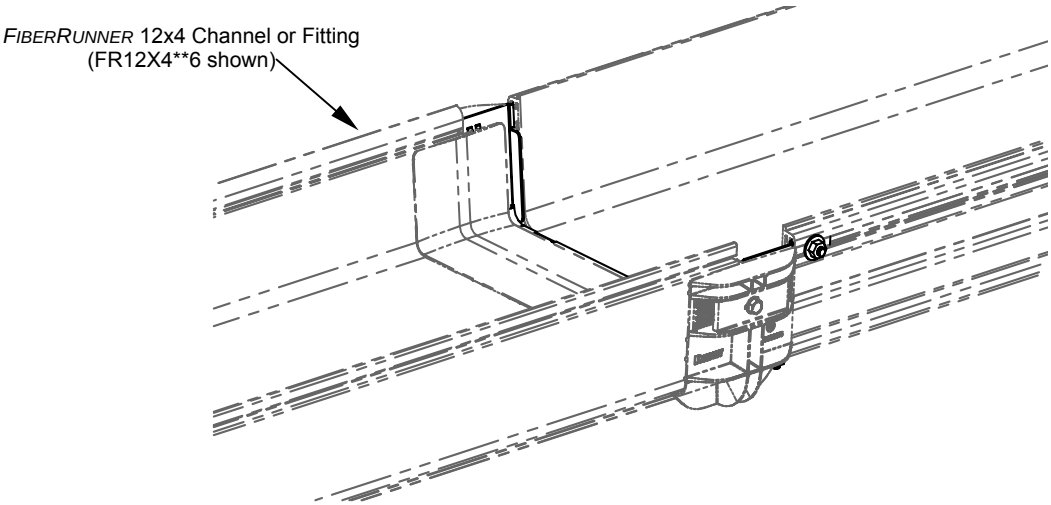
2. Install one (1) of the .312"x.734" Type A Plain Washers and thread one (1) of the ¼-20 Hex Nuts on to each of the cap screws and hand tighten. Tighten all five (5) of the ¼-20 Hex Nuts using the *FIBERRUNNER* 7/16" Nut Driver to secure the adapter installation. Please note that any standard 7/16" nut driver will work as well. If the use of hand tools is not preferred a nonmagnetic *FIBERRUNNER* 7/16" Nut Driver Bit is also available.



3. With the adapter secure to the ADC 4x12 FiberGuide Channel, align the extended ribs of the *FIBERRUNNER* 12x4 *QUIKLOCK* Coupler with the *FIBERRUNNER* Cable Routing System side of the adapter. Once aligned, push the adapter and the coupler together until the adapter is seated against the inner rib of the coupler. Please note that the slight amount of resistance that is felt is normal, indicating that the metal barbs of the coupler have engaged the surface of the adapter.



4. With the *FIBERRUNNER* 12x4 *QUIKLOCK* Coupler in place, a section of *FIBERRUNNER* 12x4 Channel and/or any *FIBERRUNNER* 12x4 fitting can be installed to continue the fiber pathway.



Part numbers described in this section:

FRADC12X4BL - *FIBERRUNNER* 12x4 Cable Routing System to ADC 4x12 FiberGuide Adapter

Part numbers referenced in this section:

FRBC12X4** - *FIBERRUNNER* 12x4 *QUIKLOCK* Coupler
FR12X4**6 – *FIBERRUNNER* 12x4 Channel
FR716DR – *FIBERRUNNER* 7/16" Nut Driver
FR716BIT – *FIBERRUNNER* 7/16" Nut Driver Bit

When ordering, replace ** in the part number with YL for Yellow, OR for Orange or BL for Black

* ADC is a registered trademark of ADC Telecommunications, Inc.

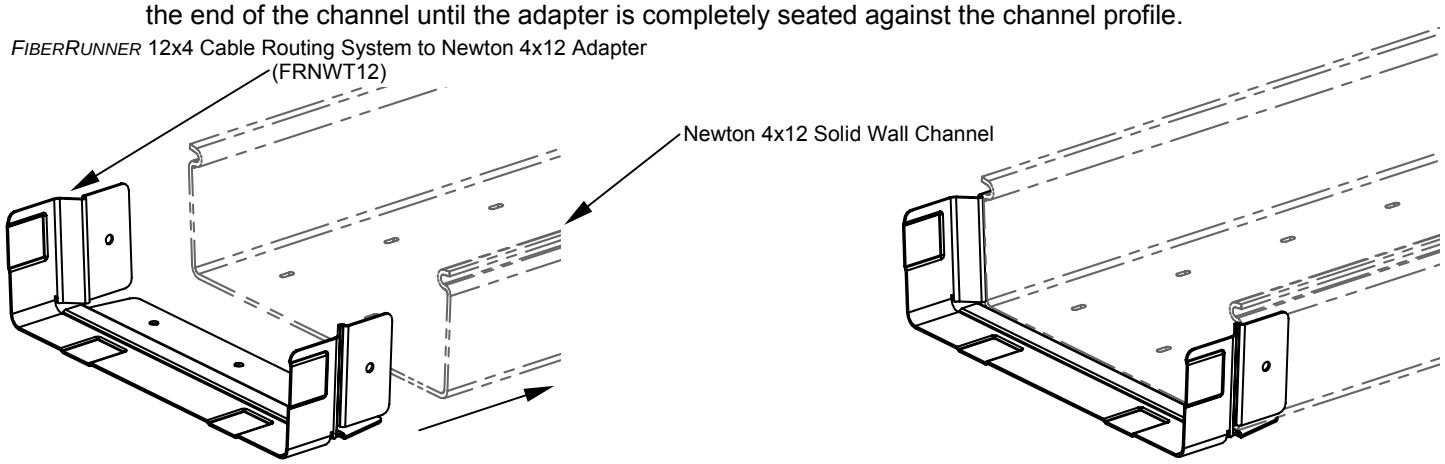
** FiberGuide is a registered trademark of ADC Telecommunications, Inc.

1.8 *FIBERRUNNER* 12x4 Cable Routing System to Newton* 4x12 Fiber Cable Management System

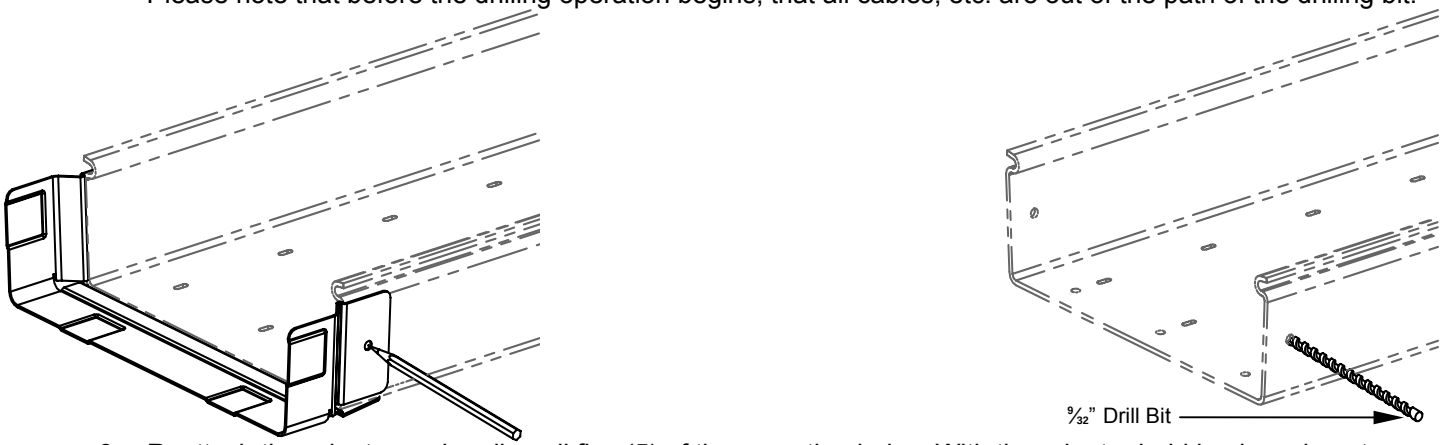
The *FIBERRUNNER* 12x4 Cable Routing System to Newton 4x12 Adapter when used with the *FIBERRUNNER* 12x4 *QUIKLOCK*™ Coupler allows the *FIBERRUNNER* 12x4 Cable Routing System to transition into or out of the Newton 4x12 Fiber Cable Management System. The adapter slides over the Newton 4x12 Solid Wall Channel and is secured with the five (5) ¼-20x⅝" Nylon Phillips Binder Head Screws and five (5) ¼-20 Nylon Deco Wing Nuts (included).

The *FIBERRUNNER* 12x4 Cable Routing System to Newton 4x12 Adapter can be easily installed as follows:

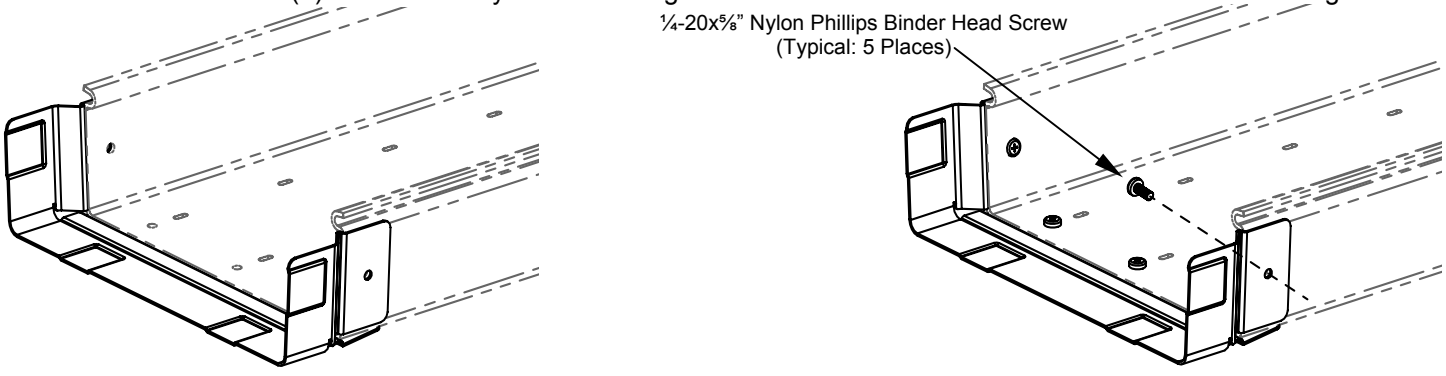
1. Align the profile of the Newton 4x12 Solid Wall Channel with the inside of the adapter. Slide the adapter over the end of the channel until the adapter is completely seated against the channel profile.

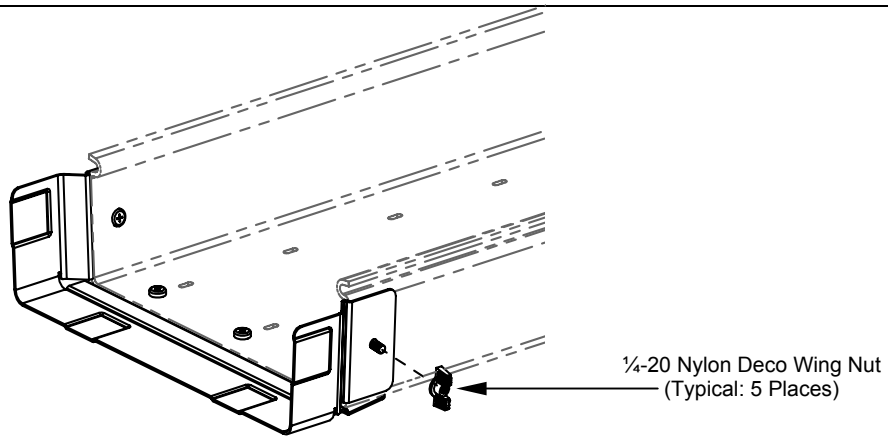


2. With the adapter held in place, mark all five (5) mounting hole locations of the adapter on to the channel section. Remove the adapter and with a 9/32" diameter drill bit create five (5) mounting holes in the channel. Please note that before the drilling operation begins, that all cables, etc. are out of the path of the drilling bit.

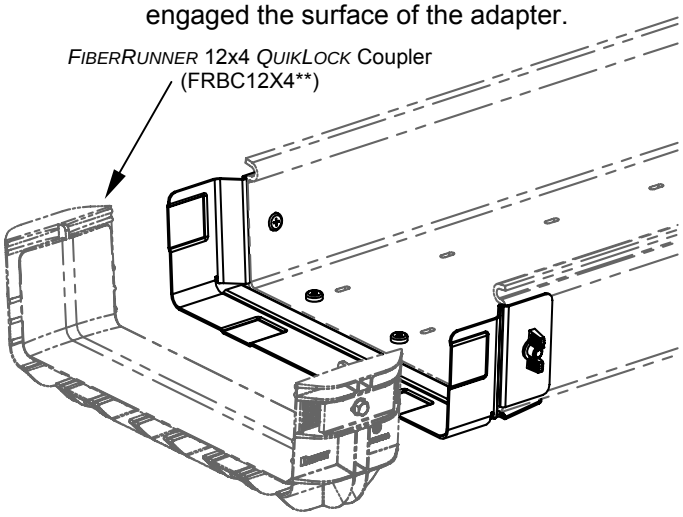


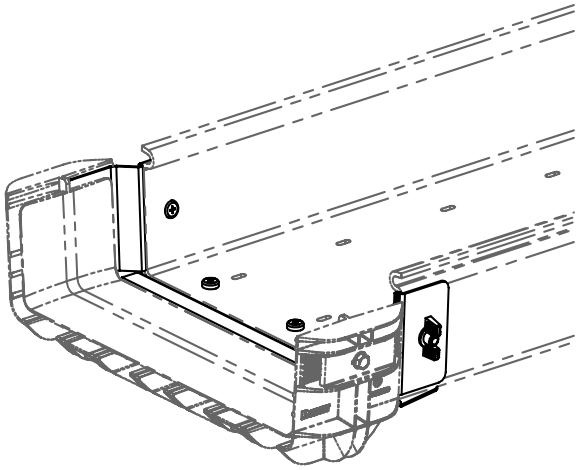
3. Reattach the adapter and realign all five (5) of the mounting holes. With the adapter held in place, insert one (1) of the ¼-20x⅝" Nylon Phillips Binder Head Screws through each of the mounting holes from the inside of the channel. Be sure that all five (5) of the binder head screws are pointing outward away from the adapter. Thread one (1) of the ¼-20 Nylon Deco Wing Nuts on to each of the binder head screws and hand tighten.



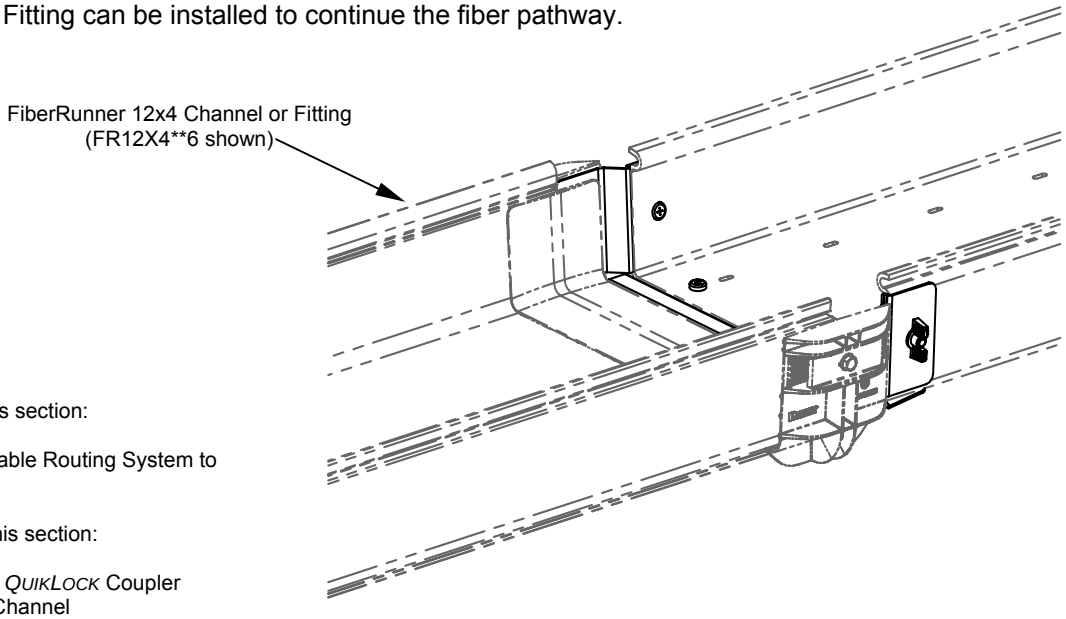


4. With the adapter secure to the Newton 4x12 Solid Wall Channel, align the extended ribs of the *FIBERRUNNER* 12x4 *QUIKLOCK*™ with the *FIBERRUNNER* Cable Routing System side of the adapter. Once aligned, push the adapter and the coupler together until the adapter is seated against the inner rib of the coupler. Please note that the slight amount of resistance that is felt is normal, indicating that the metal barbs of the coupler have engaged the surface of the adapter.





5. With the *FIBERRUNNER* 12x4 *QUIKLOCK* Coupler in place, a section of *FIBERRUNNER* 12x4 Channel and/or any *FIBERRUNNER* 12x4 Fitting can be installed to continue the fiber pathway.



Part numbers described in this section:

FRNWT12 - *FIBERRUNNER* 12x4 Cable Routing System to Newton 4x12 Adapter

Part numbers referenced in this section:

FRBC12X4** - *FIBERRUNNER* 12x4 *QUIKLOCK* Coupler
FR12X4**6 – *FIBERRUNNER* 12x4 Channel

When ordering, replace ** in the part number with YL for Yellow, OR for Orange or BL for Black

* Newton is a trademark of Newton Instrument Company, Inc.