

### 4x4 FiberRunner® QuikLock™ Coupler

- Pre-assembled to provide fast mechanical assembly of components
- No tools required for installation; bolts loosen for component disassembly



Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
FRBC4X4YL	Pre-assembled coupler quickly joins two sections of channel and/or fittings. Mechanically attaches without tightening bolts. Bolts release using 3/8" nut driver to allow coupler to be removed if necessary.	1	5

For a bulk package of 20 couplers, order FRBC4X4YL-E.  
For other colors replace suffix YL (Yellow) with OR (Orange) or BL (Black).

### 4x4 FiberRunner® System Fittings

- Minimum 2" (50.8mm) bend radius control fittings
- Protects against signal loss and performance degradation
- Assemble using FRBC QuikLock™ Couplers
- Optional split covers snap onto each fitting
- Covers feature 3/4" (19mm) gap to allow cable to be laid in



FRRA4X4



FRRASC4



FRH454X4



FRH45SC4

Part Number	Part Description	Couplers Required	Std. Pkg. Qty.	Std. Ctn. Qty.
<b>4x4 Horizontal Right Angle Fitting</b>				
FRRA4X4YL	Attaches to 4x4 channel and/or fitting to create a 90° horizontal turn from a straight horizontal run. Accepts optional split cover FRRASC4YL.	(2 pcs.) FRBC4X4YL	1	5
<b>Split Cover for 4x4 Horizontal Right Angle Fitting</b>				
FRRASC4YL	Optional split cover for the horizontal right angle fitting FRRA4X4YL. Snap-on feature allows cover to be installed and removed with no tools required. Creates radiused 3/4" (19mm) opening for easy access to add or remove cables.	—	1	5
<b>4x4 Horizontal 45° Angle Fitting</b>				
FRH454X4YL	Attaches to 4x4 channel and/or fittings to create a 45° horizontal turn from a straight horizontal run. Accepts optional split cover FRH45SC4YL.	(2 pcs.) FRBC4X4YL	1	5
<b>Split Cover for 4x4 Horizontal 45° Angle Fitting</b>				
FRH45SC4YL	Optional split cover for the horizontal 45° angle fitting FRH454X4YL. Snap-on feature allows cover to be installed and removed with no tools required. Creates radiused 3/4" (19mm) opening for easy access to add or remove cables.	—	1	5

For other colors replace suffix YL (Yellow) with OR (Orange) or BL (Black).

Table continued on next page

**4x4 FiberRunner<sup>®</sup> System Fittings (continued)****FRT4X4****FRTSC4****FRFWC4X4****FRFWCSC4****FREC4X4****FRIVRA4X4****FRIV454X4****FROV454X4**

Part Number	Part Description	Couplers Required	Std. Pkg. Qty.	Std. Ctn. Qty.
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**4x4 Horizontal Tee Fitting**

<b>FRT4X4YL</b>	Attaches to 4x4 channel and/or fittings to create a 90° horizontal branch from straight horizontal runs. Accepts optional split cover FRTSC4YL.	(3 pcs.) FRBC4X4YL	1	5
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**Split Cover for 4x4 Horizontal Tee Fitting**

<b>FRTSC4YL</b>	Optional split cover for the horizontal tee fitting FRT4X4YL. Snap-on feature allows cover to be installed and removed with no tools required. Creates radiused 3/4" (19mm) opening for easy access to add or remove cables.	—	1	5
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**4x4 Four Way Cross Fitting**

<b>FRFWC4X4YL</b>	Attaches to 4x4 channel and/or fittings to create a horizontal four way cross intersection. Accepts optional split cover FRFWCSC4YL.	(4 pcs.) FRBC4X4YL	1	5
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**Split Cover for 4x4 Four Way Cross Fitting**

<b>FRFWCSC4YL</b>	Optional split cover for the four way cross fitting FRFWC4X4YL. Snap-on feature allows cover to be installed and removed with no tools required. Creates radiused 3/4" (19mm) opening for easy access to add or remove cables.	—	1	5
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**4x4 End Cap Fitting**

<b>FREC4X4YL</b>	Used for closing off open ends of the channel or fittings. No coupler required. Push-on installation.	—	1	5
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**4x4 Inside Vertical 90° Angle Fitting**

<b>FRIVRA4X4YL</b>	Attaches to 4x4 channel and/or fittings to create a 90° upward angle from a straight horizontal run. Used with outside vertical 90° angle fitting FROVRA4X4YL to change level of a straight horizontal run. Includes split cover.	(2 pcs.) FRBC4X4YL	1	5
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**4x4 Inside Vertical 45° Angle Fitting**

<b>FRIV454X4YL</b>	Attaches to 4x4 channel and/or fittings to create a 45° upward angle from a horizontal run. Used with outside vertical 45° angle fitting FROV454X4YL to change level of a straight horizontal run. Includes split cover.	(2 pcs.) FRBC4X4YL	1	5
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**4x4 Outside Vertical 45° Angle Fitting**

<b>FROV454X4YL</b>	Attaches to 4x4 channel and/or fittings to create a 45° downward angle from a horizontal run. Used with inside vertical 45° angle fitting FRIV454X4YL to change level of a straight horizontal run. Accepts optional split cover FROV45SC4YL.	(2 pcs.) FRBC4X4YL	1	5
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For other colors replace suffix YL (Yellow) with OR (Orange) or BL (Black).

### 4x4 FiberRunner® System Fittings (continued)



FROV45SC4



FROVRA4X4



FROVRASC4



FRRF6FR4



FRRF6FR4SC



FRRF4FD2



FRRF4FD4

Part Number	Part Description	Couplers Required	Std. Pkg. Qty.	Std. Ctn. Qty.
<b>Split Cover for 4x4 Outside Vertical 45° Angle Fitting</b>				
<b>FROV45SC4YL</b>	Optional split cover for the outside vertical 45° angle fitting FROV454X4YL. Snap-on feature allows cover to be installed and removed with no tools required. Creates radiused 3/4" (19mm) opening for easy access to add or remove cables.	—	1	5
<b>4x4 Outside Vertical Right Angle Fitting</b>				
<b>FROVRA4X4YL</b>	Attaches to 4x4 channel and/or fittings to create a 90° vertical turn down from a straight horizontal run. Accepts optional split cover FROVRASC4YL.	(2 pcs.) FRBC4X4YL	1	5
<b>Split Cover for 4x4 Outside Vertical Right Angle Fitting</b>				
<b>FROVRASC4YL</b>	Optional split cover for the outside vertical right angle fitting FROVRA4X4YL. Snap-on feature allows cover to be installed and removed with no tools required. Creates radiused 3/4" (19mm) opening for easy access to add or remove cables.	—	1	5
<b>6x4 to 4x4 FiberRunner® Reducer Fitting</b>				
<b>FRRF6FR4YL</b>	Attaches any 6x4 FiberRunner® Fitting or Channel to any 4x4 FiberRunner® Fitting or Channel. Accepts split cover FRRF6FR4SCYL.	(1 pc.) FRBC6X4YL (1 pc.) FRBC4X4YL	1	5
<b>Split Cover for 6x4 to 4x4 FiberRunner® Reducer Fitting</b>				
<b>FRRF6FR4SCYL</b>	Optional split cover for the 6x4 FiberRunner® to 4x4 FiberRunner® Reducer Fitting FRRF6FR4YL. Snap-on feature allows cover to be installed and removed with no tools required. Creates radiused 3/4" (19mm) opening for easy access to add or remove cables.	—	1	5
<b>4x4 FiberRunner® to 2x2 Reducer Fitting with Cover</b>				
<b>FRRF4FD2YL</b>	Attaches any 4x4 FiberRunner® Fitting or Channel to the 2x2 Fiber-Duct™ Channel, S2X2YL6 or E2X2YL6 or 2x2 FiberRunner® Channel, HS2X2YL6 or H2X2YL6. Note: Attachment to 2x2 FiberRunner® Channel requires a QuikLock™ Coupler FBC2X2YL. Includes solid cover.	(1 pc.) FRBC4X4YL	1	5
<b>4x4 FiberRunner® to 4x4 Fiber-Duct™ Reducer Fitting with Cover</b>				
<b>FRRF4FD4YL</b>	Attaches any 4x4 FiberRunner® Fitting or Channel to the 4x4 Fiber-Duct™ Channel, S4X4YL6 or E4X4YL6. Includes solid cover.	(1 pc.) FRBC4X4YL	1	5

For other colors replace suffix YL (Yellow) with OR (Orange) or BL (Black).

A.  
System  
Overview

B.  
Copper  
Systems

C.  
Fiber  
Optic  
Systems

D.  
Power  
over  
Ethernet

E.  
Zone  
Cabling

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G.  
Outlets

H.  
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Infrastructure  
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Underfloor  
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K.  
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Racks &  
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