



VPN: ISBXL

© Copyright 1999. Black Box Corporation. All rights reserved.

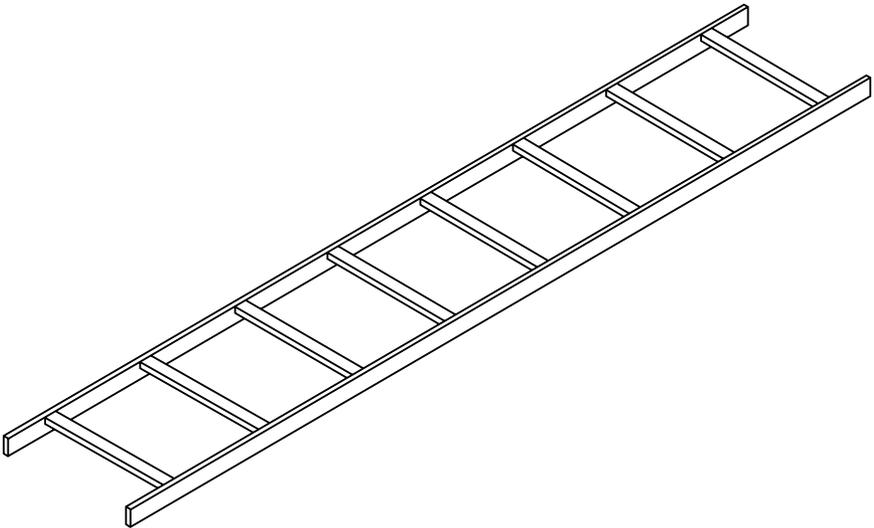
1000 Park Drive • Lawrence, PA 15055-1018 • 724-746-5500 • Fax 724-746-0746



SEPTEMBER 1999

RM649	RM655	RM660	RM665
RM650	RM656	RM661	RM666
RM651	RM657	RM662	RM667
RM652	RM658	RM663	RM668
RM653	RM659	RM664	RM669
RM654			

Ladder Racks and Accessories



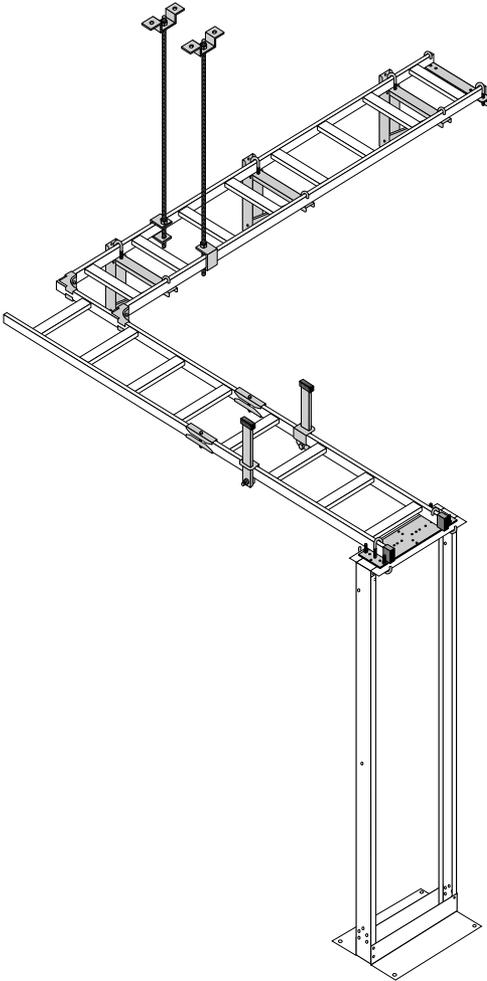
CUSTOMER SUPPORT INFORMATION Order **toll-free** in the U.S. 24 hours, 7 A.M. Monday to midnight Friday: **877-877-BBOX**
FREE technical support, 24 hours a day, 7 days a week: Call **724-746-5500** or fax **724-746-0746**
Mail order: **Black Box Corporation**, 1000 Park Drive, Lawrence, PA 15055-1018
Web site: www.blackbox.com • E-mail: info@blackbox.com

TRADEMARKS USED IN THIS MANUAL

Any trademarks mentioned in this manual are acknowledged to be the property of the trademark owners.

LADDER RACKS AND ACCESSORIES

Ladder Racks and their accessories are designed to route and manage data cables, computer cables, communication cables, and wiring in new or existing buildings. The Ladder Racks are fabricated from seamless tubular steel and are mig-welded to assure the strength and durability for the life of an installation. When used with its accessories, the Ladder Rack is the total solution to cable management for ceilings, walls, computer rooms, and wiring closets.



Available Models

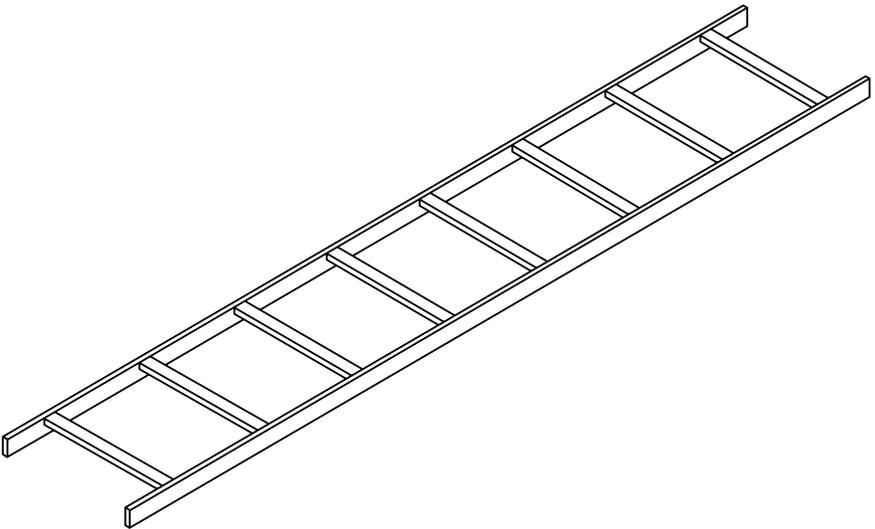
Ladder racks and accessories are available in either black or gray. Models include:

- Black Ladder Rack 6 x 12 (part number RM650)
- Gray Ladder Rack 6 x 12 (part number RM663)
- Black Ladder Rack 10 x 12 (part number RM651)
- Gray Ladder Rack 10 x 12 (part number RM664)
- Black Ladder Rack to Runway Mounting Plate (part number RM653)
- Gray Ladder Rack to Runway Mounting Plate (part number RM665)
- Black Ladder Rack Cable Runway Radius (part number RM652)
- Gray Ladder Rack Cable Runway Radius (part number RM666)
- Black Ladder Rack Triangular Support Brackets (part number RM654)
- Gray Ladder Rack Triangular Support Brackets (part number RM667)
- Black Ladder Wall Angle Rack Support Brackets (part number RM655)
- Gray Ladder Wall Angle Rack Support Brackets (part number RM668)
- Black Ladder Rack Cable Retaining Post (part number RM658)
- Gray Ladder Rack Cable Retaining Post (part number RM669)
- 90° Junction Splice (RM656)
- Butt Splice (RM657)
- Threaded Ceiling Kit (RM659) and Threaded Rod (RM660)
- End Cap Kit (RM661)
- J-Bolt Kit (RM662)
- Foot Kit for Ladder Rack (RM649)

LADDER RACKS AND ACCESSORIES

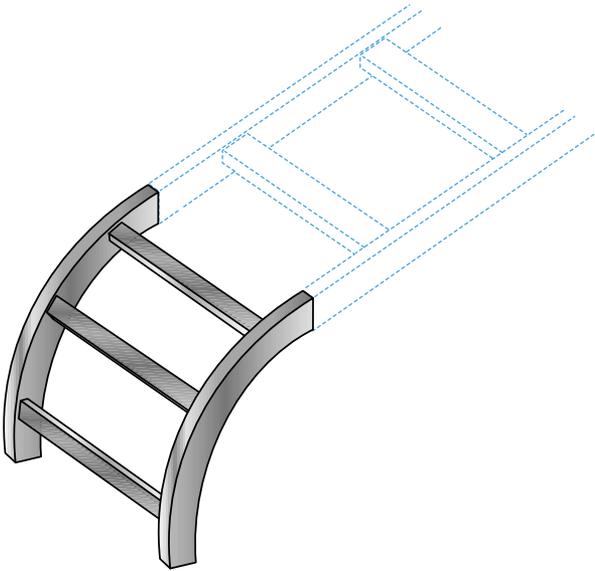
Ladder Racks (RM650, RM663, RM651, RM664)

The Ladder Rack is available in two sizes: 6' x 12" or 10' x 12", and two colors: black and gray. The side rails are made of $\frac{3}{8}$ " x $1\frac{1}{2}$ " tubing; stringers are made of $\frac{1}{2}$ " x 1" tubing. The RM650 and RM663 are 71 inches long; RM651 and RM664 are 119.5"L. Both models have an inside width of 11.25" and an outside width of 12".



Cable Runway Radius (RM652, RM666)

The Cable Runway Radius creates a smooth, gradual bend for cable placement where a 90° run is required. See the illustration below to see how it looks when attached to the Ladder Rack. In order to attach the Cable Runway Radius to the Ladder Rack, you'll need to use the Butt Splice Kit (RM657).

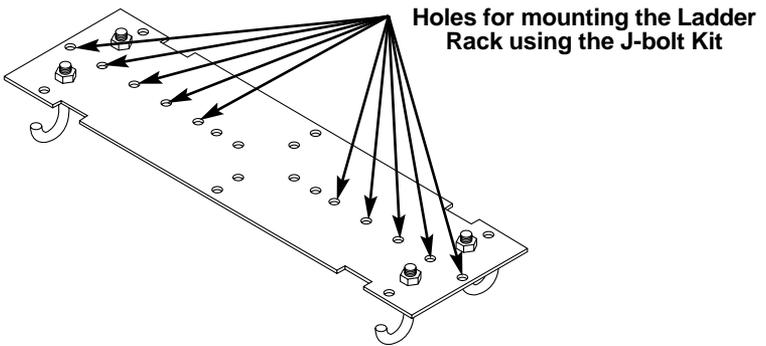


The Radius is constructed of $\frac{3}{8}$ " x $1\frac{1}{2}$ " tubular steel. It has an outside corner bend width of 12" and a 33° angle between stringers.

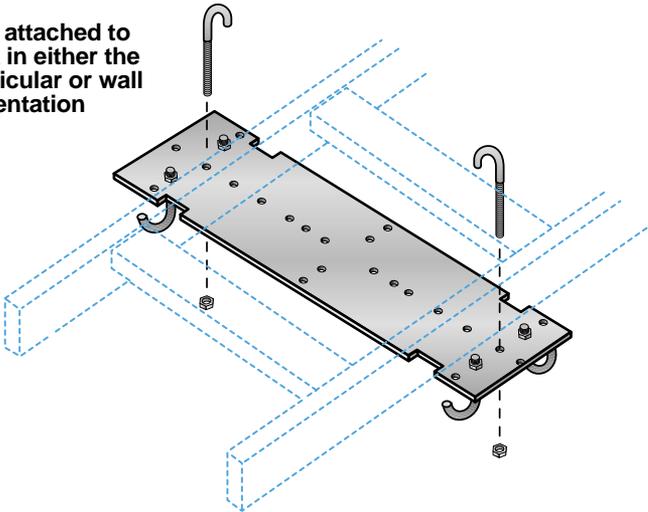
LADDER RACKS AND ACCESSORIES

Rack-to-Runway Mounting Plate (RM653, RM665)

This is a universal mounting plate used to secure the Ladder Rack to the top of equipment racks. It can be mounted either parallel or perpendicular. The illustration below shows how to attach the mounting plate to the Ladder Rack with J-bolts and hex nuts. (Each Mounting Plate comes with four $\frac{5}{16}$ "-18 x $2\frac{1}{4}$ " J-bolts and four $\frac{5}{16}$ "-18 hex nuts with attached lockwashers.) Mounting-plate dimensions are 19"W x 5.375"L.

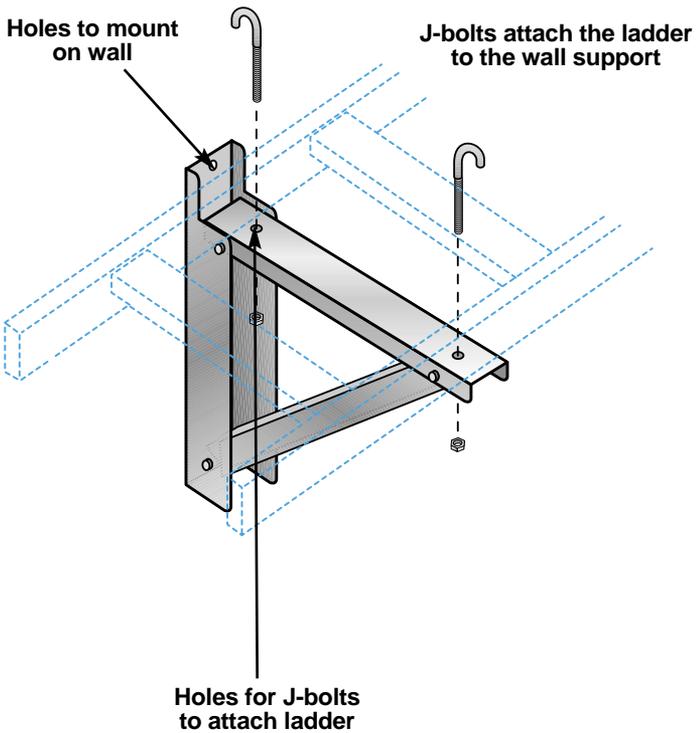


Can be attached to the rack in either the perpendicular or wall orientation



Triangular Bracket (RM654, RM667)

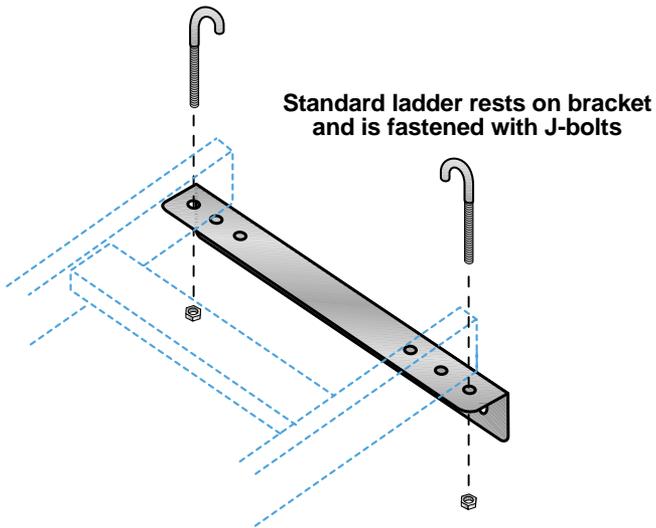
The Triangular Bracket provides parallel wall support for the Ladder Rack. It's 12 inches wide and attaches to the Ladder Rack with two $\frac{5}{16}$ "-18 x $2\frac{1}{4}$ " J-bolts and two $\frac{5}{16}$ "-18 hex nuts with attached lockwashers.



LADDER RACKS AND ACCESSORIES

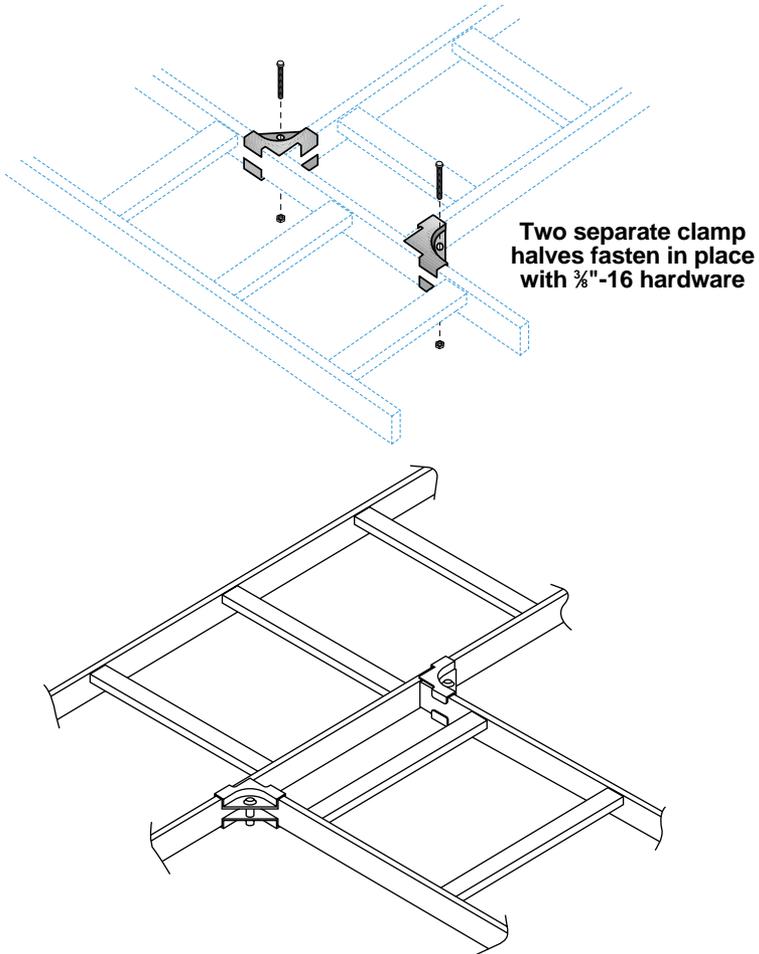
Wall-Angle Bracket (RM655, RM668)

This bracket provides perpendicular wall support for the Ladder Rack. It comes with two $\frac{3}{16}$ "-18 x $2\frac{1}{4}$ " J-bolts and two $\frac{3}{16}$ "-18 hex nuts with attached lockwasher. Bracket dimensions are 2" x 2" x $\frac{3}{16}$ ". The illustration below shows how to attach it to the Ladder Rack.



90° Junction Splice (RM656)

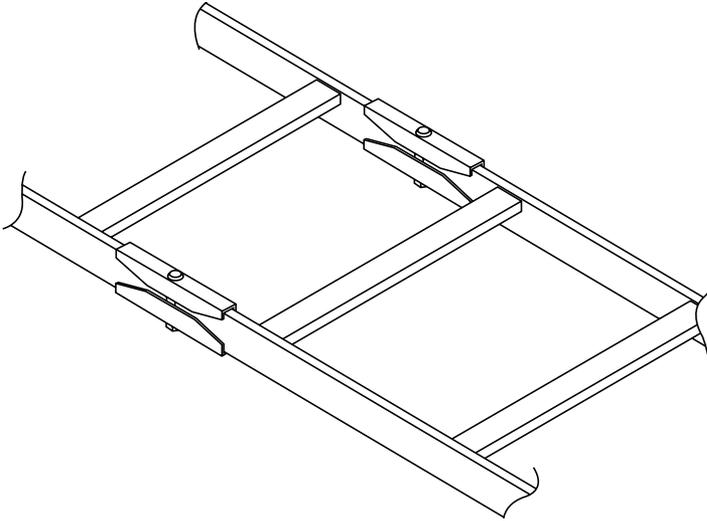
Use this splice to complete a right-angle Ladder Rack “T” (90°) junction (see the illustration below). Everything you need to make a splice is included: four corner clamp latches, two $\frac{3}{8}$ "-16 x $1\frac{1}{2}$ " round head square neck bolts, two $\frac{3}{8}$ "-16 hex nuts, and two split lockwashers.



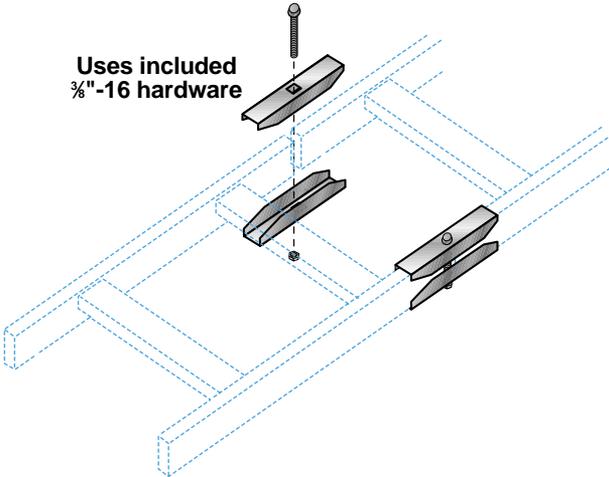
LADDER RACKS AND ACCESSORIES

Butt Splice (RM657)

The Butt Splice joins Ladder Racks end to end to form a continuous extended runway. It includes four splice plates, two $\frac{3}{8}$ "-16 trimmed head bolts, two $\frac{3}{8}$ "-16 hex nuts, and two split lockwashers.

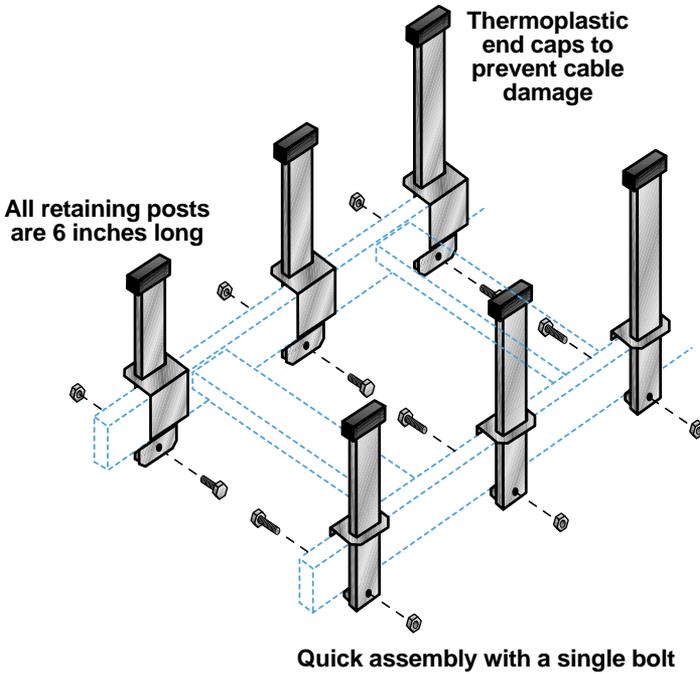


Uses included
 $\frac{3}{8}$ "-16 hardware



Cable Retaining Post (RM658, RM669)

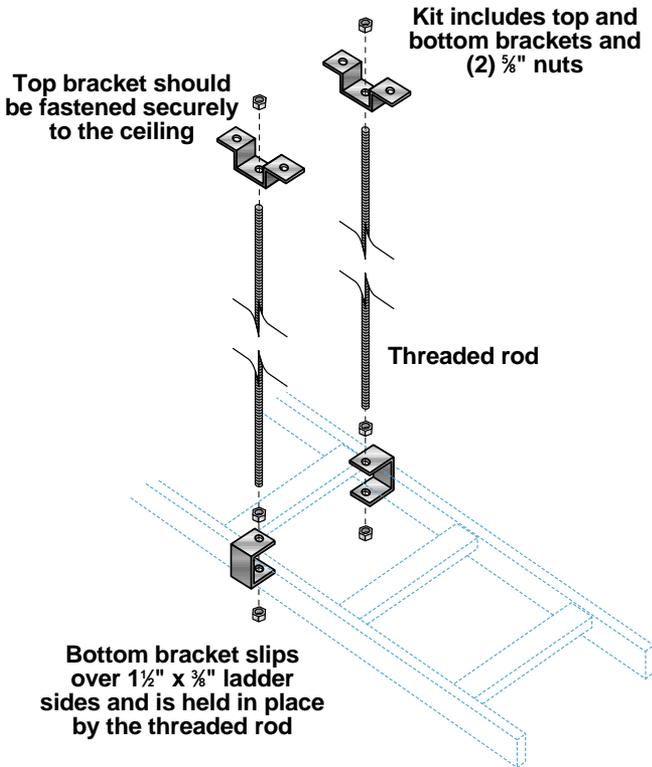
Cable Retaining Posts mount on the Ladder Rack side stringers to form side legs for cable retention. The post extends six inches above the top of the Rack. Each post comes with one post, one bracket, one end cap, and one 1/4"-20" x 1" hex capscrew and hex nut with attached lockwasher.



LADDER RACKS AND ACCESSORIES

Threaded Ceiling Kit (RM659) and Threaded Rod (RM660)

These accessories are used to suspend the Ladder Rack from the ceiling. We recommend leaving a 5-foot space between kits. Since the Threaded Ceiling Kit contains brackets and nuts only, you'll need to use it with the Threaded Rods.



End Cap Kit (RM661)

End caps protect and cover the exposed ends of the Ladder Rack. They reduce the chance of cable damage or personal injury. Each Kit contains two end caps.

J-Bolt Kit (RM662)

Use J-bolts to attach the Ladder Rack to the Wall Angle Bracket (RM655). This kit contains two $\frac{5}{16}$ "-18 x $2\frac{1}{4}$ " J-bolts and two $\frac{5}{16}$ "-18 hex nuts with attached lockwashers.

Foot Kit for Ladder Rack (RM649)

Use this kit to secure the Ladder Rack to a wall or floor of a computer room, wiring closet, or data center. The foot kit brackets are attached to the Ladder Rack and then can be bolted in the location you choose. Everything you need to attach the foot kit to the Ladder Rack is included: two feet, four splice plates, and two trimmed head square neck bolts and nuts. Note that this kit does not include hardware for attaching to the floor or wall.

