

# 500® & 700® SERIES RACEWAY



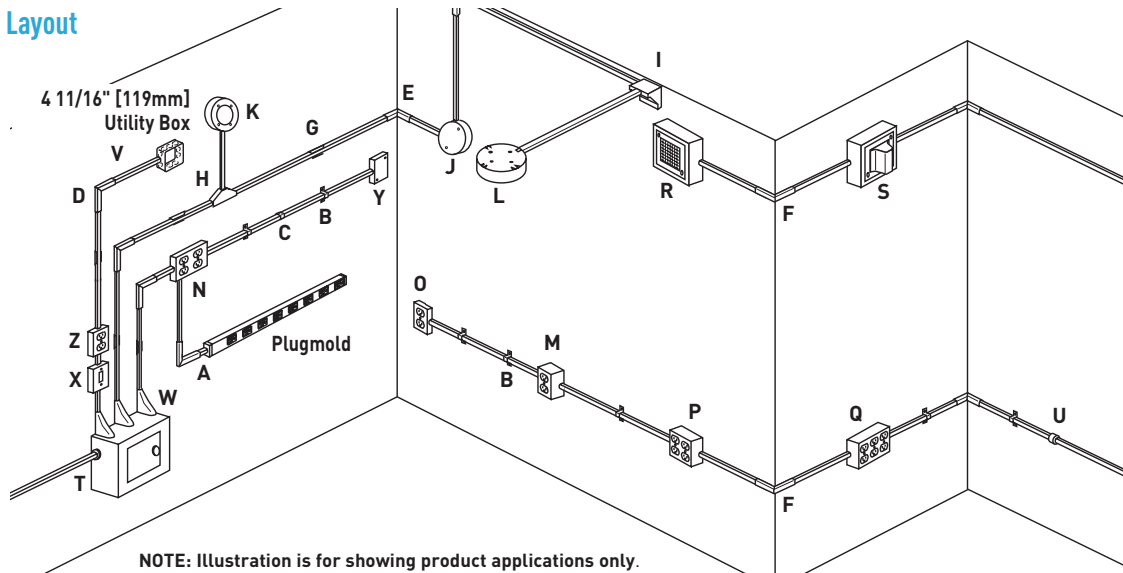
One-piece, single-channel raceway. Easy-to-install and ideal for basic power or communication/low voltage installations. Provides low profile appearance that blends with any decor.

## CODE REFERENCE

**cULus Listed Raceway:**  
File E4376 Guide RJBT.

**Fittings:**  
File E41751 Guide RJPR.  
Meets Article 386 of NEC.  
Meets Section 12-1600 of CEC.

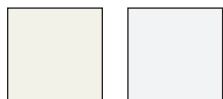
## System Layout



## KEY

- |                           |                                       |   |                                      |
|---------------------------|---------------------------------------|---|--------------------------------------|
| A. 2089E Reducing Fitting | I. 5719 Corner Box                    | P. 5748-2 Two-Gang Device Box             | V. 5785 Combination Connector        |
| B. 504 Mounting Strap     | J. 5734A Utility Box                  | Q. 5748-3 Three-Gang Device Box           | W. V5786 Adjustable Offset Connector |
| C. 506 Cover Clip         | K. 5738 Fixture Box Solid Base        | R. 5752 Alarm Device Box                  | X. 57240 Single Pole Switch and Box  |
| D. 511 Flat Elbow         | L. V5739 Fixture Box Solid Base       | S. 5753 Extra Deep Alarm Device Box       | Y. 57242 Utility Box                 |
| E. 517 Internal Elbow     | M. 5744 Extra Deep Device Box         | T. 5781 Box Connector                     | Z. 57243G Duplex Receptacle and Box  |
| F. 518 External Elbow     | N. 5747-2 Two-Gang Shallow Device Box | U. 5782 1/2" Trade Size Conduit Connector |                                      |
| G. 5703 Supporting Clip   | O. 5748S Shallow Device Box           |   |                                      |
| H. 5715 Tee               |                                       |   |                                      |

## COLOR OPTIONS



500° and 700° Series Raceway Part Numbers with a "V" prefix have an ivory finish. Part Numbers with a "WH" suffix have a white finish. Some Device Boxes used in safety applications are also available with a red painted finish.

**Custom color options are also available. Consult the factory for more information.**

# 500<sup>®</sup> & 700<sup>®</sup> SERIES RACEWAY

## 700 Series Wire Fill Capacities For Communications

	CABLE/WIRE SIZE	O.D. (APPROX. DIA.)		40% FILL
		Inches	[mm]	
UNSHIELDED TWISTED PAIR	4-pair, 24 AWG, Cat 3	0.190	[4.8]	3
	4-pair, 24 AWG, Cat 5e	0.210	[5.3]	3
	4-pair, 24 AWG, Cat 6	0.250	[6.3]	2
	4-pair, 24 AWG, Cat 6a*	0.354	[9.0]	1
	25-pair, 24 AWG	0.410	[10.4]	0
COAXIAL	RG6/U	0.270	[6.9]	1
FIBER	ZipCord	0.118 x 0.236	[3 x 6]	3
	Round 4 Strand Fiber	0.187	[4.8]	3
	Round 6 Strand Fiber	0.256	[6.5]	2

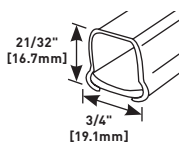
## 700 Series Wire Fill Capacities for Power

WIRE SIZE	O.D.		NO. OF CONDUCTORS 40% FILL
	Inches	[mm]	
THHN/THWN			
14 AWG	0.111	[2.8]	10
12 AWG	0.130	[3.3]	7
10 AWG	0.164	[4.2]	4

**NOTE:** For additional information, refer to the Technical Section.  
\* Category 6 augmented (6a) cable for 10 gigabit ethernet – max allowed cable diameter per addenda No. 11 ANSI TIA/EIA 568-B.2.

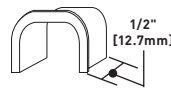
## 700 Series Raceways Ordering Information

### V700, 700WH One-Piece Raceway



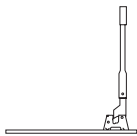
.040" [1.0mm] steel. Ivory finish. Available in 10' [3m] lengths, 100' [31m] per carton. One (1) 5701 Coupling furnished with each length.

### 702 Bushing



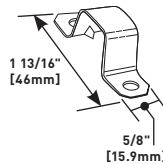
Protects wires from abrasion. Slips into open end of 700 Series Raceway.

### 607 700 Series Raceway Cutter



Single action portable cutter. Fast and easy square cuts.

### V704, 704WH Mounting Strap



**(One- or Two-Hole)** Converts to one-hole by breaking off at score. Lanced tab holds strap in place while fastening to surface.

### 607K Replacement Blades

Case hard steel replacement blades for 607 Raceway Cutter.

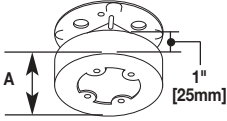
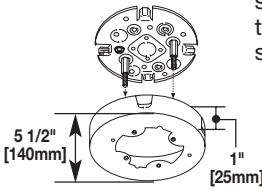
### V706, 706WH Connection Cover



Covers seam where two lengths of 700 Series Raceway come together.

**NOTE:** Use #8 flathead screws with all fittings requiring screws except V704. With V704, use #8 panhead screws.

## V500, V700, & 700WH Round Fixture Boxes (continued)

Catalog No./Item	Description/Specifications	Catalog No./Item	Description/Specifications								
<b>V5738*</b> <b>V57378A*</b> <b>V5739*</b> <b>5738WH*</b> <b>5738AWH*</b>	<b>Fixture Box/Solid Base</b> – For hanging fixtures. Cover takes devices with mounting screw centers of 2 3/4", 3 1/2", or 4 1/16" [70mm, 89mm, or 104mm]. Base has four holes for fixture studs; five 1/2" trade size KOs and raised section for no-bolt fixture-stud. Use as a junction or pull box with V5736.	<b>V5738AF</b> <b>5738AFWH*</b>	<b>Fan Box/Solid Base</b> – UL approved fixture box for ceiling fans. Cover accepts fan brackets with 3.2" [82mm] mounting centers. Supports up to 50 lbs. Base has six mounting holes and four 1/2" trade size KOs. #10 mounting screws provided.								
	<table border="1" style="margin: auto;"> <thead> <tr> <th>CAT. NO.</th> <th>DIA. A.</th> </tr> </thead> <tbody> <tr> <td>V5738, WH</td> <td>4 3/4" [121mm]</td> </tr> <tr> <td>V5738A, WH</td> <td>5 1/2" [140mm]</td> </tr> <tr> <td>V5739</td> <td>6 3/8" [162mm]</td> </tr> </tbody> </table>	CAT. NO.	DIA. A.	V5738, WH	4 3/4" [121mm]	V5738A, WH	5 1/2" [140mm]	V5739	6 3/8" [162mm]		
CAT. NO.	DIA. A.										
V5738, WH	4 3/4" [121mm]										
V5738A, WH	5 1/2" [140mm]										
V5739	6 3/8" [162mm]										

**NOTE:** Covers have double twistouts; Lower twistout for V500, and both twistouts for V700.  
 \* Replace V with VC or WH with WHC to denote Canadian version — Agency approved for sale in Canada.   
 \* These boxes are not designed to support ceiling fans. For fan applications, use V5738AF.

## V500 & V700 Series Wire Fill Capacity Charts

### V500/V700 Series Raceway Wire Fill Capacities for Power

WIRE SIZE THHN/THWN	O.D.		NUMBER OF CONDUCTORS 40% FILL	
	inches	[mm]	V500 SERIES	V700 SERIES
14 AWG	0.111	[2.8]	7	10
12 AWG	0.130	[3.3]	5	7
10 AWG	0.164	[4.2]	3	4

### V500/V700 Series Raceway Wire Fill Capacities for Communications

	CABLE/WIRE SIZE	O.D.		V500 SERIES		V700 SERIES	
		inches	[mm]	20% FILL*	40% FILL**	20% FILL*	40% FILL**
UNSHIELDED TWISTED PAIR	4-pair, 24 AWG, Cat 3	0.190	[4.8]	1	2	1	3
	4-pair, 24 AWG, Cat 5e	0.210	[5.3]	1	2	1	3
	4-pair, 24 AWG, Cat 6	0.250	[6.3]	0	1	1	2
TELEPHONE	2-pair, 24 AWG	0.140	[3.6]	2	4	3	6
	3-pair, 24 AWG	0.150	[3.8]	2	4	2	5
	4-pair, 24 AWG	0.190	[4.8]	1	2	1	3
	25-pair, 24 AWG	0.410	[10.4]	0	0	0	0
COAXIAL	RG58/U	0.195	[5.0]	1	2	1	3
	RG59/U	0.242	[6.1]	0	1	1	2
	RG62/U	0.242	[6.1]	0	1	1	2
	RG6/U	0.270	[6.9]	0	1	0	1
TWINAXIAL	100 Ohm	0.330	[8.4]	0	0	0	1
SHIELDED TWISTED PAIR	TYPE 1	0.390	[9.9]	0	0	0	0
	TYPE 2	0.465	[11.8]	0	0	0	0
	TYPE 3	0.245	[6.2]	0	1	0	1
FIBER	Mini ZipCord	0.079 x 0.157	[2 x 4]	3	6	4	8
	ZipCord	0.118 x 0.236	[3 x 6]	1	2	1	3
	Round 4 Strand Fiber	0.187	[4.8]	1	2	1	3
	Round 6 Strand Fiber	0.256	[6.5]	0	1	1	2

\* 20% cable fill is calculated to approximate reduction in cable capacity due to connectors mounted within raceway and fittings that may restrict cross sectional area.

\*\* 40% cable fill is the maximum designed cable fill based on a proposed revision to TIA/EIA 569-A.

## One-Piece Raceway Tools

Catalog No./Item	Description/Specifications	Catalog No./Item	Description/Specifications
<b>605</b> <b>607</b>	<b>V500 Raceway Cutter</b> <b>700 Series Raceway Cutter</b> – Single action portable cutter.	<b>605K</b> <b>607K</b>	<b>Replacement blade for 605 and 607 cutters</b> – Replacement case-hardened steel blades cut clean and square.
