

One-Piece Metal Raceway

Wiremold® V500® Series Raceway is ideal for surface mounting small amounts of electrical wiring or communication cables. These rugged raceways offer a low profile appearance which blends with any decor. V500® Series Raceway comes with our exclusive ScuffCoat™ finish for increased durability and scratch-resistance.

V500 Series Raceway profile



V500 Series Raceway and components used in a ceiling fan installation



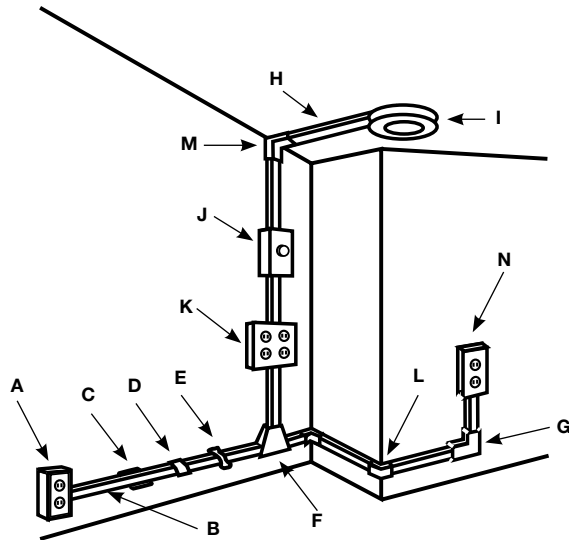
FEATURES & BENEFITS

- > **Low-profile, unobtrusive appearance.** Blends with any decor or setting. Excellent for low-voltage wiring.
- > **ScuffCoat finish.** Tough, durable, scratch-resistant finish which can be overpainted with latex paint.
- > **Surface mounting.** Eliminates disturbing the building structure or wall finish to make renovations easy.
- > **Full line of fittings.** Provides unlimited wiring solutions and interconnection between raceway systems.
- > **Fittings have removable covers.** Allows easy access to wiring for changes and additions.
- > **Communication connectivity options.** Accepts industry standard and proprietary devices from a wide range of manufacturers to provide a seamless and aesthetically pleasing interface for voice, communication and A/V applications at the point of use.
- > **UL5 and ADA compliant.** Raceway and fittings meet UL5 specifications and can be installed in conformance with ADA requirements.
- > **UL and cUL Listed component raceways.** File E4376 Guide RJBT, Fittings: File E41751 Guide RJPR. Meets Article 386 of NEC and meets Section 12-600 of CEC.

Typical applications for V500 Series Raceway



V500 Series Raceway System Components



Key

A	— V5751	Starter Box
B	— V500+	10' Raceway
C	— B9-10-11	Supporting Clip (Included)
D	— B9-10-11	Cover Clip (Included)
E	— B9-10-11	Mounting Strap (Included)
F	— B16	Tee Fitting
G	— B6	Flat Elbow
H	— B1	5' Raceway
I	— V5733AF	Fan Box Solid Base
J	— V5748	1 3/4" Deep Device Box
K	— V5747-2	2-Gang Box
L	— B8	Outside Elbow
M	— B7	Inside Elbow
N	— V5747	1 3/8" Deep Device Box

V500 Series Raceway Wire Fill Capacity Charts

V500 Series Raceway Wire Fill Capacities for Power

WIRE SIZE THHN/THWN	O.D.		NO. OF CONDUCTORS V500 SERIES (40% FILL)
	inches	[mm]	
14 AWG	0.111	[2.8]	7
12 AWG	0.130	[3.3]	5
10 AWG	0.164	[4.2]	3

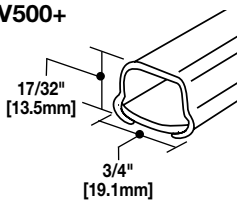
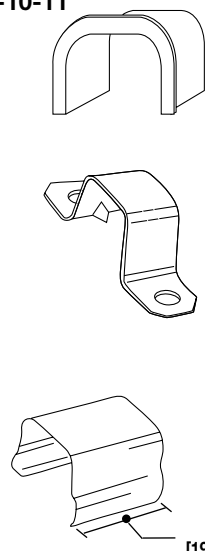
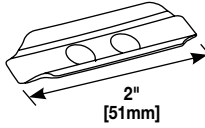
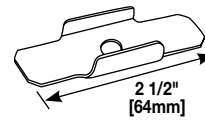
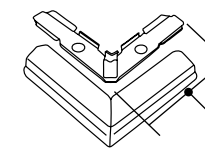
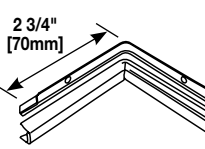
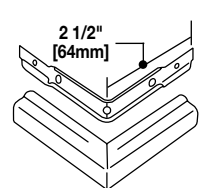
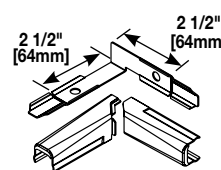
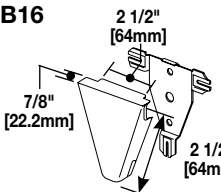
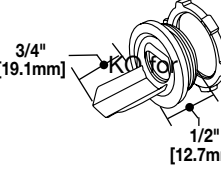
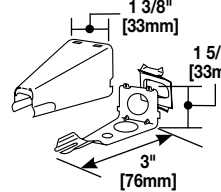
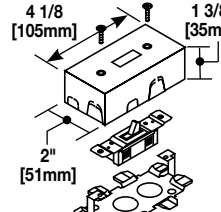
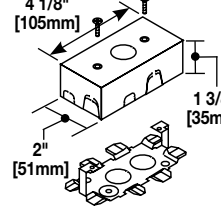
V500 Series Raceway Wire Fill Capacities for Communications

	CABLE/WIRE SIZE	O.D.		500 SERIES	
		inches	[mm]	20% FILL*	40% FILL**
UNSHIELDED TWISTED PAIR	4-pair, 24 AWG, Cat 3	0.190	[4.8]	1	2
	4-pair, 24 AWG, Cat 5e	0.210	[5.3]	1	2
	4-pair, 24 AWG, Cat 6	0.250	[6.3]	0	1
TELEPHONE	2-pair, 24 AWG	0.140	[3.6]	2	4
	3-pair, 24 AWG	0.150	[3.8]	2	4
	4-pair, 24 AWG	0.190	[4.8]	1	2
	25-pair, 24 AWG	0.410	[10.4]	0	0
COAXIAL	RG58/U	0.195	[5.0]	1	2
	RG59/U	0.242	[6.1]	0	1
	RG62/U	0.242	[6.1]	0	1
	RG6/U	0.270	[6.9]	0	1
TWINAXIAL	100 Ohm	0.330	[8.4]	0	0
SHIELDED TWISTED PAIR	TYPE 1	0.390	[9.9]	0	0
	TYPE 2	0.465	[11.8]	0	0
	TYPE 3	0.245	[6.2]	0	1
FIBER	Mini ZipCord	0.079 x 0.157	[2 x 4]	3	6
	ZipCord	0.118 x 0.236	[3 x 6]	1	2
	Round 4 Strand Fiber	0.187	[4.8]	1	2
	Round 6 Strand Fiber	0.256	[6.5]	0	1

* 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.

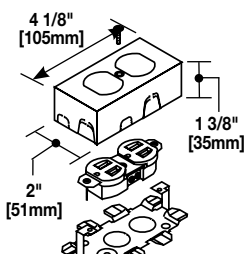
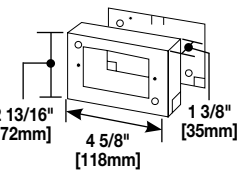
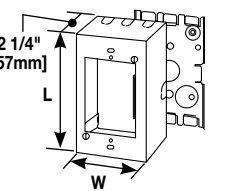
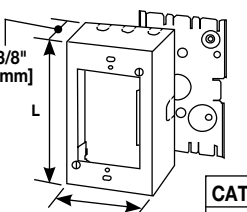
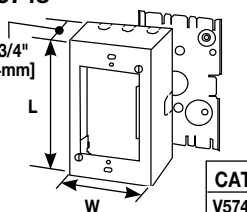
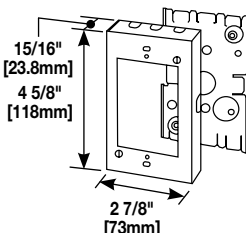
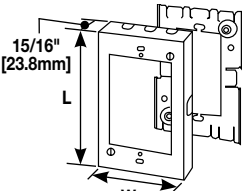
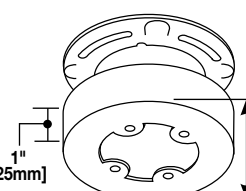
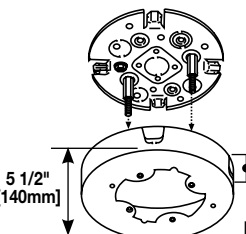
** 40% cable fill is the maximum designed cable fill based on a proposed revision to TIA/EIA 569-A.

V500 Series Raceway Accessories Ordering Information

Catalog No./Item	Description/Specifications
<p>V500+</p> 	<p>Raceway – .040" [1.0mm] steel. Comes in 10 ft. [3.05m] lengths, one 5701 Coupling furnished with each length. Five ft. [1.525m] lengths also available, order part B1.</p>
<p>B9-10-11</p> 	<p>Accessory Pack – Includes:</p> <p>Bushing – Protects wires from abrasion. Bushing slips into open end of raceway where it enters a fitting.</p> <p>Mounting Strap (1- or 2-Hole) – Convert to one-hole by breaking off at score. Lanced tab holds strap in place while fastening to surface.</p> <p>Connection Cover – To cover openings where lengths of V500 Series Raceway, not squarely cut, come together.</p>
	<p>Coupling – For joining and supporting lengths of V500 Series Raceway. One coupling supplied with each length.</p>
	<p>Supporting Clip – For supporting lengths of V500 Series Raceway at any point desired.</p>
<p>B6</p> 	<p>90° Flat Elbow – For right angle turns on same surface.</p>
<p>B7</p> 	<p>Inside Elbow – For inside surfaces at right angles.</p>
<p>B8</p> 	<p>Outside Elbow – For outside surfaces at right angles.</p>
<p>B13-14</p> 	<p>External Elbow – For outside</p> <p>Internal Twisted Elbows – For 90° twist with 90° turn including a flat run on sidewall to a flat run on ceiling or on door edge or window trim.</p>
<p>B16</p> 	<p>Tee – For branches at right angles.</p>
<p>B81</p> 	<p>Box Connector (Galvanized) – For connecting raceway to conduit boxes, panel boxes, etc., having a conduit. May also be used with conduit type fittings.</p> <p>1/2" [12.7mm] Male (5781)</p>
<p>B17</p> 	<p>Combination Connector – For connecting raceway, without offsetting, to any 3 1/4" [83mm] or 4" [102mm] outlet box mounted on the surface with a KO for 1/2" [12.7mm] conduit. The base end and bottom has two 1/2" trade size KOs. Break off cover extension to use with 700 Series. Spring steel bushing included for end connection to box, eliminating conduit nipple and locknut.</p>
<p>V57240</p> 	<p>15A, 125V Single Pole Switch and Box – Accommodates other standard single-gang switches in place of furnished standard single pole switch. Cover has twistouts on each end. Twistout on ends permits running raceway close to interior trim. Base has 1/2" trade size KOs.</p>
<p>V57242</p> 	<p>Utility Box – For use as tee, cross, pull box, junction box, blank box, etc. Cover has 1/2" trade size KO and twistouts on each end and side. End twistouts permit running raceway close to interior trim. Base has 1/2" trade size KOs.</p>

NOTE: Use #6 flat head screws with all fittings requiring screws except V504/V704, and V57200 Series; with V504/V704 use #8 pan head screws; with V57200 Series use #8 flat head screws.

V500 Series Raceway Accessories Ordering Information

Catalog No./Item	Description/Specifications												
<p>V57243G</p> 	<p>15A, 125V Duplex Grounding Receptacle (Nema 5-15R) and Box – Accommodates other standard 15A (NEMA 5-15R) or 20A (NEMA 5-20R) duplex devices in place of furnished duplex grounding receptacle. Cover has twistouts on each end and side. End twistouts permit running raceway close to interior trim. Base has 1/2" trade size KOs.</p>												
<p>V5741</p> 	<p>Device Box – For shallow type switches (three-way, single, and double pole) and receptacles, (three-wire locking receptacles and single-gang combination devices). Base has 1/2" trade size KO. End twistout permits running raceway close to interior trim.</p>												
<p>V5744S</p> 	<p>Deep Switch and Receptacle Box – For installing signal system alarm wiring and communication devices. Base has 1/2" trade size and rectangular single-gang KOs.</p>												
<p>V5747</p>  <table border="1" style="margin-top: 10px; width: 100%; border-collapse: collapse;"> <thead> <tr> <th>CAT NO.</th> <th>L</th> <th>W</th> <th>GANG #</th> </tr> </thead> <tbody> <tr> <td>V5747</td> <td>4 5/8" [118mm]</td> <td>2 7/8" [73mm]</td> <td>1</td> </tr> <tr> <td>V5747-2</td> <td>4 3/4" [121mm]</td> <td>4 3/4" [121mm]</td> <td>2*</td> </tr> </tbody> </table>	CAT NO.	L	W	GANG #	V5747	4 5/8" [118mm]	2 7/8" [73mm]	1	V5747-2	4 3/4" [121mm]	4 3/4" [121mm]	2*	<p>Shallow Device Box – For standard shallow switches, receptacles, communication devices, and single-gang combination devices. Base has two 1/2" trade size KOs.</p>
CAT NO.	L	W	GANG #										
V5747	4 5/8" [118mm]	2 7/8" [73mm]	1										
V5747-2	4 3/4" [121mm]	4 3/4" [121mm]	2*										
<p>V5748</p>  <table border="1" style="margin-top: 10px; width: 100%; border-collapse: collapse;"> <thead> <tr> <th>CAT NO.</th> <th>L</th> <th>W</th> <th>GANG #</th> </tr> </thead> <tbody> <tr> <td>V5748</td> <td>4 5/8" [118mm]</td> <td>2 7/8" [73mm]</td> <td>1</td> </tr> <tr> <td>V5748-2</td> <td>4 3/4" [121mm]</td> <td>4 3/4" [121mm]</td> <td>2*</td> </tr> </tbody> </table>	CAT NO.	L	W	GANG #	V5748	4 5/8" [118mm]	2 7/8" [73mm]	1	V5748-2	4 3/4" [121mm]	4 3/4" [121mm]	2*	<p>Device Box – For deep switches, receptacles and communication devices. Base has two 1/2" trade size KOs.</p>
CAT NO.	L	W	GANG #										
V5748	4 5/8" [118mm]	2 7/8" [73mm]	1										
V5748-2	4 3/4" [121mm]	4 3/4" [121mm]	2*										
<p>V5748S</p> 	<p>Shallow Switch and Receptacle Box – For duplex receptacles (shallow type). Base has 1/2" trade size KOs.</p>												
<p>V5751</p> 	<p>Flush-Type Starter Box – For extensions from existing in-wall boxes.</p>												
<p>V5737* V5737A*</p>  <table border="1" style="margin-top: 10px; width: 100%; border-collapse: collapse;"> <thead> <tr> <th>CAT. NO.</th> <th>DIA. A.</th> </tr> </thead> <tbody> <tr> <td>V5737</td> <td>4 3/4" [121mm]</td> </tr> <tr> <td>V5737A</td> <td>5 1/2" [140mm]</td> </tr> </tbody> </table>	CAT. NO.	DIA. A.	V5737	4 3/4" [121mm]	V5737A	5 1/2" [140mm]	<p>Extension Box/Open Base – For mounting on 3 1/4" [83mm], 4" [102mm] conduit boxes, or other recessed outlets. Cover takes devices with mounting screw centers of 2 3/4", 3 1/2", or 4 1/16" [70mm, 89mm, or 104mm].</p>						
CAT. NO.	DIA. A.												
V5737	4 3/4" [121mm]												
V5737A	5 1/2" [140mm]												
<p>V5738AF</p> 	<p>Fan Box/Solid Base – 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.</p>												

* These boxes are not designed to support ceiling fans. For fan applications, use V5738AF.

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