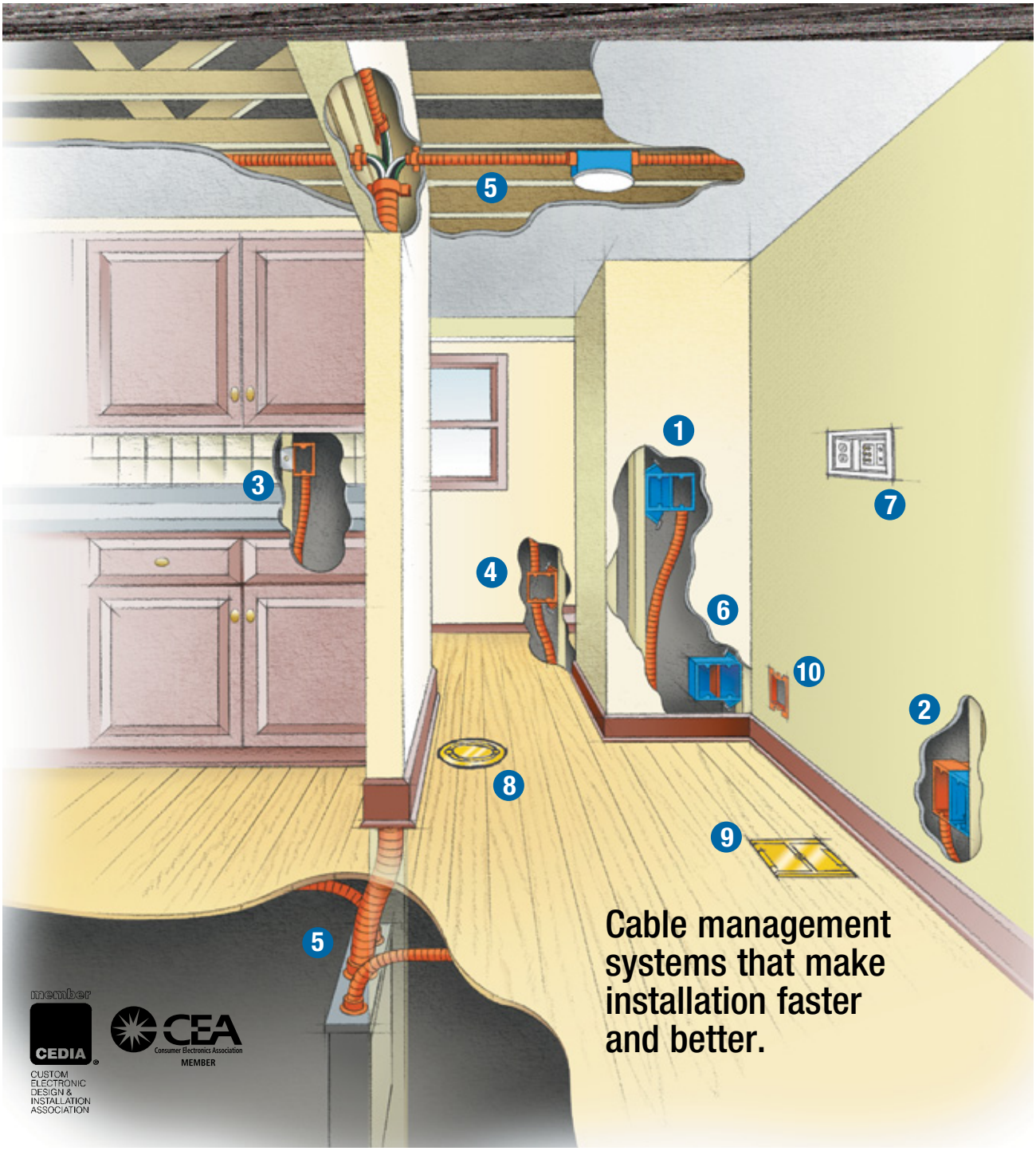
Low-Voltage Structured Cable Management System

Carlon® Orange Structured Cable Management System

Carlon® Structured Cable Management System (SCMS) is designed for general-purpose low-voltage residential wire and cable management. This series of boxes and brackets are accompanied by a corrugated conduit system and accessories to future-proof your home.



Low-Voltage Structured Cable Management System

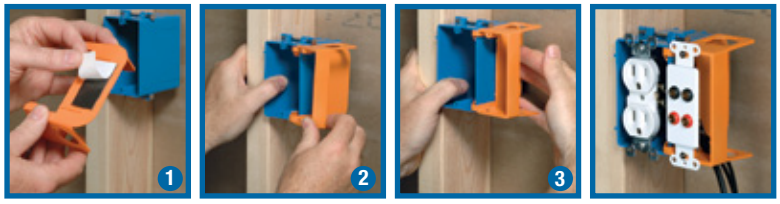
1 Dual-Voltage Box/Bracket

Here's a smart alternative for where you would normally use separate high- and low-voltage boxes. Designed to fit a standard two-gang faceplate, this component combines an electrical box and low-voltage bracket into a single unit for fast, easy installation. No alignment tools are required and easy nail-on mounting provides precise placement and a professionally finished appearance. Resi-Rings accept ¾" Resi-Gard® fittings only...SC200DV

Why waste time mounting, then trying to line up separate high-voltage and low-voltage boxes, and still end up with something not quite right? Our Dual-Voltage Box/Bracket lets you do it all in one fast, easy step with perfect alignment every time.

2 Low-Voltage Add-On Bracket

This low-voltage bracket provides a low-voltage outlet next to a previously installed high-voltage outlet. Great for both new construction and rework, it attaches easily to most electrical boxes and is designed to fit a standard two-gang faceplate. Resi-Rings accept ¾" Resi-Gard® fittings only…SC100SC



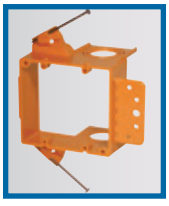
Attaching the Add-On Bracket is a "snap." You just remove the back of the double-sided tape (1), clip the bracket in place (2) and press on the bracket to secure it against the box (3). Enables the installation of most rectangular yoke plates.

3 Low-Voltage Adjustable Brackets

Our Low-Voltage Adjustable Brackets are the perfect solution for tile, paneling or stucco. A bracket enables quick, easy stud mounting and a turn of the screw adjusts to any wall thickness. It's great for retrofit/installation upgrades. Replace the single-gang bracket with a two-gang bracket or switch services to a high-voltage Adjust-A-Box™ device… SC100ADJC (shown) and SC200ADJC

Our Low-Voltage Adjustable Brackets simplify installation with tile, paneling or stucco to save you time and effort. Just use the quick-mount bracket to clip it to the stud (1), add a screw for extra support if you want it (2), then use the adjustment screw to accommodate wall thickness (3). Also available in a two-gang version.

4 Low-Voltage Brackets



Here's the fast installation choice when only low voltage is required. Designed to fit a standard one-, two- or three-gang faceplate, these low-voltage brackets feature an easy nail-on mounting or screw-in bracket, while a hard shell provides increased durability and no racking. Resi-Rings accept ¾", 1" and 1¼" Resi-Gard® fittings (one- and two-gang versions only)… SC100A, SC200A (shown) and SC300A

Our Low-Voltage Brackets are open-backed to easily accommodate the bend radiuses required for low-voltage cabling and deep devices such as volume controls, while molded-in ports make it easy to connect flexible raceway for future-proofing. Or, you can use them to tie off cable to the bracket. They can also be attached to wood or steel studs.

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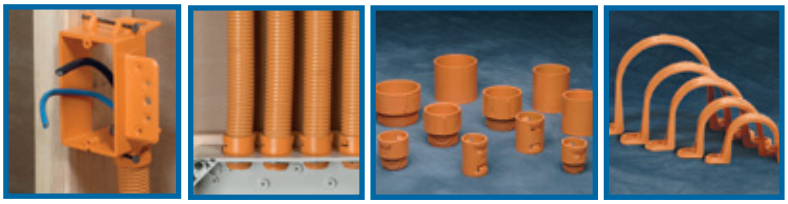
Low-Voltage Structured Cable Management System

5

Resi-Gard® Flexible Raceway and Fittings

Available in five sizes from ¾" to 2", with factory-installed pull tape in sizes 1" to 2", our Resi-Gard® Flexible Raceway provides a main chase from the main distribution panel to a secondary hub in the attic or basement. Ideal for easy access to add cable or service upgrades or leave empty for future expansion.



Our complete line of quick-connect couplings, adapters, cable clips, conduit clamps and solvent cement make for quick, easy professional installation of Resi-Gard® Flexible Raceway.

6

Dual-Voltage Box/Bracket

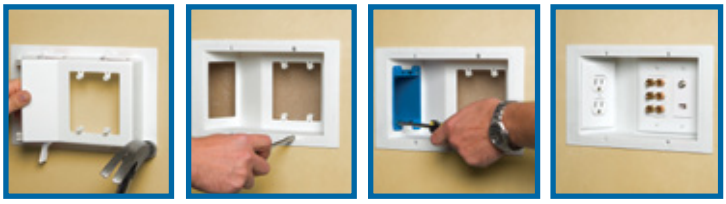
For applications where a combined high- and low-voltage closed-back box is needed, such as placement in a fire-rated wall, we offer our Carlon® SuperBlue® two-, three- and four-gang wiring boxes with a slip-in-place divider to give you the split box you need for the low-voltage outlet… SCDIV

What could be easier than converting one of our Carlon® SuperBlue® boxes for both high- and low-voltage use? Just slip the divider into place and you're ready to go. Great for situations requiring a dual-voltage fire-rated box.

7

Recessed Dual-Voltage 3-Gang Old Work Plate

The New Carlon® RDV 3-Gang Old Work Plate has been developed to simplify today's in-home entertainment/networking needs. The box is designed to accommodate the wires, cables and cords used with flat-panel display installations. It features a two-gang low-voltage opening and a one-gang opening for an outlet/switch box (boxes, devices and plates not included)… SC300PRB and SC300PRR

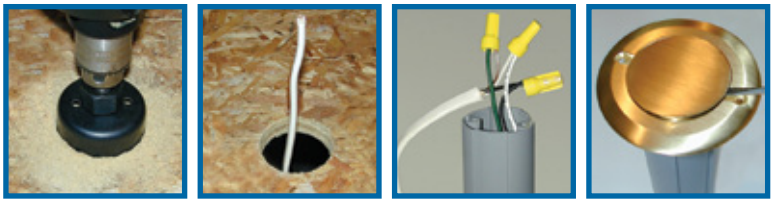


The high-gloss, recessed design eliminates unsightly wires, cables and cords and blends with any décor. The RDV Old Work Plate makes installing flat panel displays faster and easier!

8

Drop-In Floor Box

The Carlon® Drop-In Floor Box with Brass Cover combines many of the same features of our existing floor box line with the strength, durability and style necessary to accommodate today's residential electrical/telecommunication needs. The Carlon® Drop-In Floor Box is the fastest, easiest way for contractors to put a floor socket anywhere they need it! It's designed to accommodate line voltage and low-voltage applications… E971FBDI-2 and E971FBDIB-2



Turn off electricity before starting. Drill hole in floor using hole saw. Pull romex through floor. Connect receptacle wires to romex. Brass cover snaps into place. Use a small screwdriver to pry open brass cover to plug in appliance.

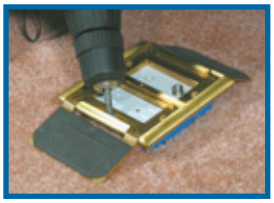
For more information about this floor box, refer to ***www.tnb.com*** *or the Thomas & Betts Residential catalog.*

Low-Voltage Structured Cable Management System

9

Adjust-A-Box® Floor Box

Carlon® Adjust-A-Box® Floor Boxes make installing floor outlets fast and easy by providing maximum installation flexibility. The box features an adjustment screw designed to adjust the box from 0" to 1¾" by simply turning the screw clockwise or counterclockwise, providing a flush mount every time… B234BFBB (brass cover) and B234BFSS (stainless steel)



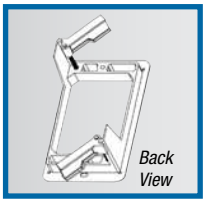
Install clip over subfloor. Screw in to adjust to height of flooring or carpet. Beautiful flush fit every time!

For more information about this floor box, refer to ***www.tnb.com*** *or the Thomas & Betts Residential catalog.*

10

Old Work Bracket

Carlon® Low-Voltage Old Work Brackets are specifically designed for the installation of low-voltage devices such as cable television, data communications or telephone jacks in an existing wall. The backless feature provides the space needed for the bend radius requirements of coaxial or data/communication cables. It also eliminates the need for metal plates, lags or screws… SC100RR (shown) and SC200RR



1. Use the holes in the corners to mark the opening.
2. Cut out the drywall.
3. Place box in wall.
4. Secure box to wall.

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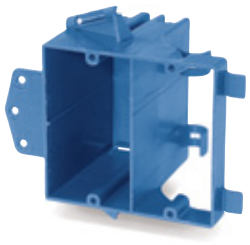
Low-Voltage Structured Cable Management System

Dual-Voltage Box/Bracket

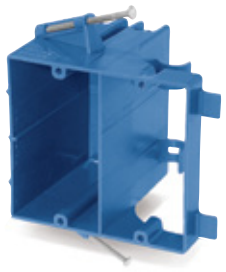
- Dual-voltage capability
- Accepts a two-gang faceplate
- ¾" Resi-Rings®
- Backless design accommodates large/deep low-voltage devices
- Eliminates cutting the backs off electrical boxes
- Accommodates bend-radius requirements for low-voltage cabling
- Provides ample space for installation

E-18-4-DV



SB-21-DV

SC200DV



SN-21-DV

CAT. NO.	SIZE CU. IN.	MOUNTING MEANS	DIMENSIONS (IN.)	STD. CTN. QTY.
E-18-4-DV•	18.0	Dual Voltage	3¾ L x 4 W x 3 D	50
SB-21-DV•	20.5	Molded Bracket for Wood/Steel Studs	3⅝ L x 4 W x 3 7/16 D	50
SC200DV•	20.5	Angled Side Nails	3.69 L x 4.04 W x 3.67 D	16
SN-21-DV•	20.5	Angled Side Nails	35/8 L x 4 W x 3 7/16 D	50

• UL Listed E11461.

Permissible for use with 90° C insulated conductors.

80° C heat-rated material.

Low-Voltage Brackets

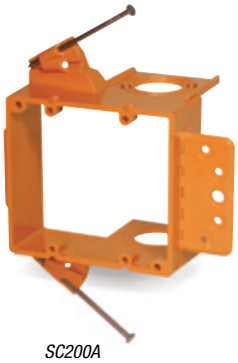
- Backless design accommodates large/deep low-voltage devices
- Eliminates cutting the backs off electrical boxes
- Accommodates bend-radius requirements for low-voltage cabling
- Provides ample space for installation
- Mount Flange for steel stud application

One- and two-gang versions only:

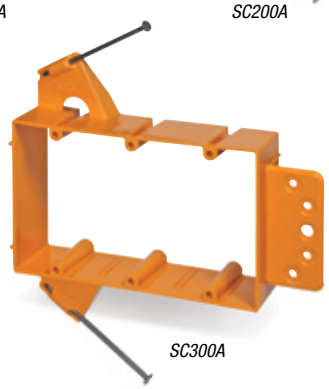
- Resi-Rings® with concentric knockouts
- Accepts ¾", 1" and 1¼" Resi-Gard®
- Horizontal mounting bracket (one-gang only)
- Breakaway drywall support flange provides easy alignment for ½" drywall
- Screw-mount option
- Breakaway vertical mounting flange
- Breakaway feature enables the use of the Low-Voltage Add-On Bracket

Where noted by ▶

SC100A



SC200A



SC300A

CAT. NO.	SIZE CU. IN.	MOUNTING MEANS	DESCRIPTION	DIMENSIONS (IN.)	STD. CTN.
SC100A•	N/A	Captive Nails	¾", 1", 1¼" Resi-Rings®	3.73 L x 2.32 W x 3.15 D	24
SC200A•	N/A	Captive Angled Nails	¾", 1", 1¼" Resi-Rings®	3.77 L x 4.07 W x 3.15 D	24
SC300A•▶	44	Captive Angled Nails	—	3.69 L x 5.81 W x 1.50 D	5

• UL Listed E216492.

Low-Voltage Add-On Bracket

- Dual-voltage capability accommodates high- and low-voltage devices in the same box
- Attaches to virtually any non-metallic electrical box as long as there's a side for the tape to stick to
- Accepts a two-gang faceplate
- ¾" Resi-Rings®
- Enables the installation of most rectangular yoke plates

SC100SC

CAT. NO.	SIZE CU. IN.	MOUNTING MEANS	DESCRIPTION	DIMENSIONS (IN.)	STD. CTN.
SC100SC•	N/A	Tape	1-Gang	3.68 L x 2.36 W x 3.10 D	24

• *UL Listed E216492.*

Low-Voltage Adjustable Brackets

- Accommodates varying finished-wall thicknesses — ideal for wood paneling, tile or stucco walls
- With the turn of a screw, adjust to any wall thickness
- Steel mounting bracket provides a secure mount
- Backless design accommodates large/deep low-voltage devices
- Eliminates cutting the backs off electrical boxes
- Accommodates bend-radius requirements for low-voltage cabling
- Provides ample space for installation
- Removable bracket and interchangeable mounting bracket — upgrade from a one-gang to a two-gang anytime

Carlon® Exclusive

SC100ADJC

CAT. NO.	SIZE CU. IN.	MOUNTING MEANS	DESCRIPTION	DIMENSIONS (IN.)	STD. CTN.
SC100ADJC•	21	Adjustable Bracket	1-Gang	3.56 L x 3.88 W x 1.69 D	24
SC200ADJC•	34	Adjustable Bracket	2-Gang	3.56 L x 5.63 W x 1.69 D	20

• *UL Listed E216492.*

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Low-Voltage Structured Cable Management System

Old Work Brackets

- Rectangular flange for faster/easier installation
- Shallow bracket — less material, easier to work with
- Marking hole for wall opening
- Thinner flange for less protrusion on the wall
- SINGLE-GANG ONLY — clamps stop at center point to prevent the bracket from twisting or bending out of the wall

CAT. NO.	SIZE CU. IN.	MOUNTING MEANS	DESCRIPTION	DIMENSIONS (IN.)	STD. CTN.
SC100RR•	N/A	Adjustable Bracket	1-Gang	4.32 L x 2.52 W x 1.66 D	12
SC200RR•	N/A	Adjustable Bracket	2-Gang	4.28 L x 4.28 W x 1.66 D	6

• *UL Listed E216492.*

SC100RR

SC200RR

Low-Voltage Divider Plate

CAT. NO.	STD. CTN.
SCDIV•	50

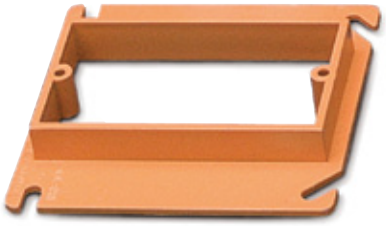
• *For use with Carlon® SuperBlue™ boxes only.*

Mud Ring (4" Square ½" Raised Cover)

CAT. NO.	DESCRIPTION	STD. CTN.
SCA410•	1-Gang	20

• ***Note:*** *Classified for two-hour fire-resistive wall assemblies when used with Two-Gang Quick-Connect Outlet and Switch Boxes.*

UL Listed E11461.



Low-Voltage Adjustable Floor Bracket with Cover

The Carlon® Low-Voltage Adjustable Floor Bracket is specifically designed for the low-voltage, structured cabling market…the floor bracket is industry-standard orange to identify low-voltage applications, the open design provides the space needed for low-voltage bend radius requirements and the Leviton QuickPort® Quad 106® Insert provides up to four low-voltage outlet ports. The Carlon® Low-Voltage Adjustable Floor Bracket is ideal for any residential or commercial low-voltage application.

The floor bracket also features a unique screw design, enabling it to be adjusted to most finished-floor heights by simply turning the screw clockwise or counterclockwise and adjusting flush to the floor.

The floor bracket kit comes complete with a non-metallic (white or ivory) or brass cover, a Leviton QuickPort® Quad 106® Insert, new work and old work metal mounting brackets and mounting screws.

Carlon® Structured Cable Management Systems…Your Total Systems Solution!

Carlon® Exclusive

- White, ivory or brass cover
- Orange — identifies low-voltage installations
- Open-design floor bracket — accommodates low-voltage bend radius requirements
- Adjustable screw — bracket adjusts to most finished-floor depths
- Leviton® QuickPort® Quad 106® Insert — install up to four low-voltage inserts
- Two-door design
- cUL-US Listed

QuickPort® and Quad 106® are registered trademarks of Leviton Manufacturing Co., Inc.

One-Gang Adjustable

CAT. NO.	SIZE CU. IN.	MOUNTING MEANS	DESCRIPTION	DIMENSIONS (IN.)	STD. CTN.
SC100FBWC•	N/A	Adjustable Bracket	Non-Metallic — White	2.80 L x 4.36 W x 1.72 D	8
SC100FBVC•	N/A	Adjustable Bracket	Non-Metallic — Ivory	2.80 L x 4.36 W x 1.72 D	8
SC100FBBC•	N/A	Adjustable Bracket	Brass	2.80 L x 4.36 W x 1.72 D	8

• *UL Listed E216492.*

Installation:

Install clip over subfloor.

Screw in to adjust to height of flooring or carpet.

Beautiful flush fit every time!

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Low-Voltage Structured Cable Management System

Recessed Dual-Voltage 3-Gang Old Work Plate

The New Carlon® RDV 3-Gang Old Work Plate has been developed to simplify today's in-home entertainment/networking needs. The box is designed to accommodate the wires, cables and cords used with flat-panel display installations. It features a two-gang low-voltage opening and a one-gang opening for an outlet/switch box (boxes, devices and plates not included). The hi-gloss, recessed design eliminates unsightly wires, cables and cords and blends with any décor. The RDV Old Work Plate makes installing flat-panel displays faster and easier!

Recessed Dual-Voltage 3-Gang Old Work Plate *(continued)*

Features:

- 3-gang dual-service capability: accommodates one line voltage and two low-voltage services using one plate (boxes, devices and plates not included)
- Recessed low-profile design: eliminates unsightly wires and plug heads
- Universal 1-gang outlet/switch opening: select the size box you need
- Pre-assembled box and frame: reduces labor time and saves money
- Shallow design: provides ample room behind the drywall and between the studs and accommodates cable bend requirements
- Four swing-out clamps: locks the plate securely to the wall — horizontal or vertical mount
- Superior hi-gloss, paintable finish: professional appearance and blends with any décor
- Non-metallic, ABS material: lightweight and easy to handle

Installation:

Please read these instructions completely before attempting installation.

IMPORTANT! *Before attempting installation, be sure power is off by removing the fuse or switching the circuit breaker to "off." Make sure the Recessed Dual-Voltage Plate is installed in accordance with the National Electrical Code® (NEC®) and local codes. NEC and National Electrical Code are registered trademarks of the National Fire Protection Association, Inc.*


Fig. 1


Fig. 2


Fig. 3


Fig. 4


Fig. 5


Fig. 6


Fig. 7

1. Locate studs and determine if they are 16" or 24" apart. If 16" apart, measure a maximum of 3" from edge of stud to determine plate location. If 24" apart, center plate between studs.

   Note: *High-voltage side must be 3" from stud.*

2. Place SC300PRB or SC300PRR face down against the wall. Using a hammer, tap around the edge of the plate to mark area to be cut out **(Fig. 1)**. Remove plate from wall, a line should be visible on the drywall. Cutout should be approximately 6.25" x 9.25".
3. Carefully cut out area of drywall with a utility knife or drywall saw.
4. Place SC300PRB or SC300PRR in wall and secure by tightening down all four Zip-Mount retainers **(Fig. 2)**.
5. Select device and outlet/switch box, CAT. NO. B114R (14 cu. in.) or B120R (20 cu. in.), based on wire fill needs **(Fig. 3)**.
6. Insert wires through boxes (B114R or B120R and SC300PRB or SC300PRR). Make sure high- and low-voltage wires do not come in contact with one another.
7. Install Carlon® Old Work Zip Box®, model B114R or B120R **(Fig. 4)**.
8. Install receptacle and faceplate per manufacturer's instructions **(Fig. 5)**.
9. Install low-voltage devices and faceplate per manufacturer's instructions **(Fig. 6** and **Fig. 7)**.

   Note: *When preparing for later installation of low-voltage devices, use a 2-gang blank plate to cover wall opening for a clean finished look.*

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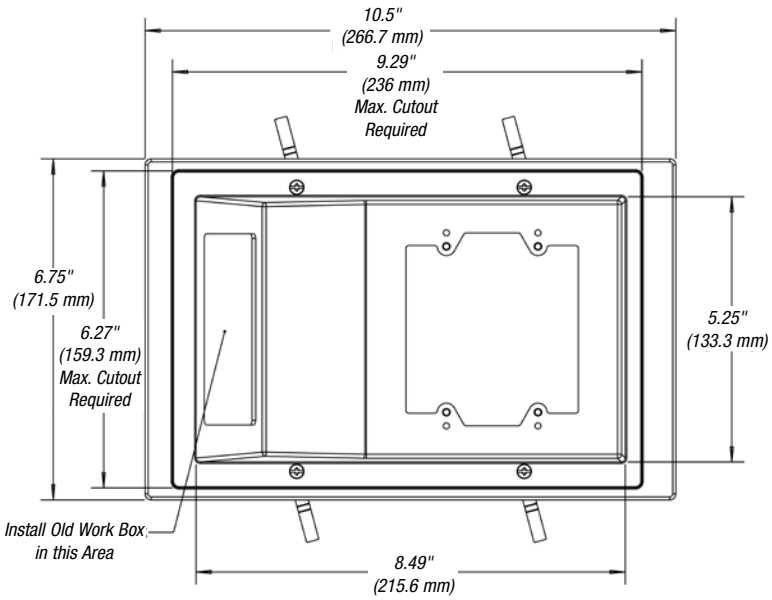
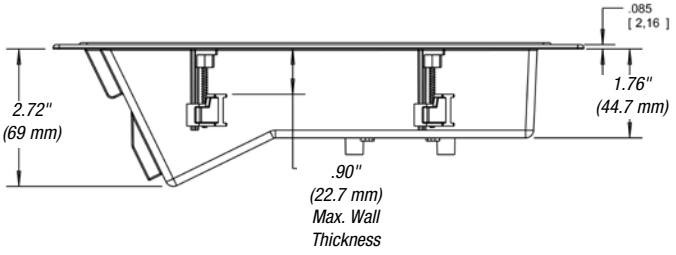
Low-Voltage Structured Cable Management System

Installed:

Top view showing ample room between drywall and studs





CAT. NO.	SIZE CU. IN.	MOUNTING MEANS	DESCRIPTION	DIMENSIONS (IN.)	STD. CTN.
SC300PRB	N/A	Zip-Mount Retainers	RDV 3-Gang Old Work Plate	6.75 L x 10.5 W x 2.72 D	20
SC300PRR	N/A	Zip-Mount Retainers	RDV 3-Gang Old Work Plate with Outlet Box (B114R)	6.75 L x 10.5 W x 2.72 D	3

Low-Voltage Structured Cable Management System

Resi-Gard® Flexible Raceway

Ideal for providing a main chase from the main distribution panel to a secondary hub in the attic or basement, Resi-Gard® non-metallic flexible raceway is available in ¾" to 2" diameter sizes with factory-installed pull tape in sizes 1" to 2". The raceway is hand bendable, lightweight and easily cut to length to reduce scrap. Bright orange color clearly signifies a low-voltage installation.

Standard-Length Coils

CAT. NO.	SIZE (IN.)	PULL TAPE	DESCRIPTION	REEL LENGTH (FT.)
SCE4X1-100•	¾	Empty*	Flexible Raceway	100
SCF4X1C-100•	1	900 lbs.	Flexible Raceway	100
SCG4X1C-100•	1¼	900 lbs.	Flexible Raceway	100
SCH4X1C-50•	1½	900 lbs.	Flexible Raceway	50
SCJ4X1C-100•	2	900 lbs.	Flexible Raceway	50

• UL Listed E151168.

FT-1 Rated

** If installing own tape, a lubricated polyester is recommended.*

Standard-Length Reels*

CAT. NO.	SIZE (IN.)	PULL TAPE	DESCRIPTION	REEL LENGTH (FT.)
SCE4X1-1000•	¾	Empty	Flexible Raceway	1000
SCF4X1C-1500•	1	900 lbs.	Flexible Raceway	1500
SCJ4X1C-500•	2	900 lbs.	Flexible Raceway	500

** Made to order*

• UL Listed E151168.

FT-1 Rated

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Resi-Gard® Fittings

Quick-Connect Coupling

CAT. NO.	SIZE (IN.)	STD. CTN.
SCA240E•	¾	25
SCA240F•	1	20

• *UL Listed E86720*

Male Terminal Adapter*

CAT. NO.	SIZE (IN.)	STD. CTN.
SCE943G•	1¼	50
SCE943H•	1½	25
SCE943J•	2	50

• *UL Listed E23018.*

** Must be cemented to Resi-Gard® Flexible Raceway using ONLY Resi-Gard® Solvent Cement.*

Quick-Connect Threaded Adapter

CAT. NO.	SIZE (IN.)	STD. CTN.
SCA243E•	¾	25
SCA243F•	1	20

• *UL Listed E86720*

Standard Couplings*

CAT. NO.	SIZE (IN.)	STD. CTN.
SCE940G•	1¼	30
SCE940H•	1½	25
SCE940J•	2	30

• *UL Listed E23018.*

** Must be cemented to Resi-Gard® Flexible Raceway using ONLY Resi-Gard® Solvent Cement.*

Quick-Connect Snap-In-Adapter

CAT. NO.	SIZE (IN.)	STD. CTN.
SCA253E•	¾	25
SCA253F•	1	20

• *UL Listed E86720*

PVC Lock Nut

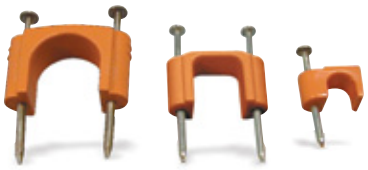
CAT. NO.	SIZE (IN.)	STD. CTN.
LT9E•	¾	700
LT9F•	1	600

• *UL Recognized.*

Low-Voltage Structured Cable Management System

Cable Clips

Pre-installed nails provide fast and easy installation for either a single cable, two to three cables or one bundled cable.



SC34CC SC12CC SC14CC

CAT. NO.	SIZE (IN.)	STANDARD BAG QUANTITY	STD. CTN.
SC14CC	¼	1 Ea. (Equals One Bag of 100 Clips)	10 Bags of 100
SC12CC	½	1 Ea. (Equals One Bag of 25 Clips)	310 Bags of 25
SC34CC	¾	1 Ea. (Equals One Bag of 10 Clips)	20 Bags of 10

Conduit Clamps

Designed to secure Resi-Gard® raceway or bundled cable.

CAT. NO.	SIZE (IN.)	STANDARD BAG QUANTITY	STD. CTN.
SCE977EC	¾	1 Ea. (Equals One Bag of Five Clamps)	20 Bags of 5
SCE977FC	1	1 Ea. (Equals One Bag of Five Clamps)	12 Bags of 5
SCE977GC	1¼	1 Ea. (Equals One Bag of Five Clamps)	8 Bags of 5
SCE977HC	1½	1 Ea. (Equals One Bag of Five Clamps)	6 Bags of 5
SCE977JC	2	1 Ea. (Equals One Bag of Five Clamps)	6 Bags of 5

Note: *Each clamp requires two screws, two nuts and/or two bolts.*

Resi-Gard® Solvent Cement

RECOMMENDED PIPE APPLICATION AND SIZES	SET-UP TIME (EVAPORATION RATE)	RECOMMENDED INSTALLATION TEMP.	LAP SHEAR @ 73˚ F	VISCOSITY AT 75˚ F AS MANUFACTURED
For use with Resi-Gard®, Riser-Gard®, P&C Flex™ and Carlon PVC fittings. *Up through 6" diameter.*	10°–30° F Use extra caution	40°–100° F	2 hrs. 350 psi	500–900 cps
	30°–50° F 5–6 minutes		16 hrs. 800 psi	
	50°–70° F 3–4 minutes		72 hrs. 1500 psi	
	70°–90° F 1–2 minutes			

CAT. NO.	SIZE (IN.)	APPLICATOR	DESCRIPTION	STD. CTN.
VC9963SC	Pint	Brush	Resi-Gard® Solvent Cement Clear	24

Meets ASTM D-2564.

Cutters

Ideal for fast, smooth field cuts for up to 1" diameter Resi-Gard® non-metallic flexible raceway. The large PVC Cutter is ideal for cuts up to 2" diameter non-metallic rigid and flexible raceway.

Small Cutter

For fast, smooth field cuts of ½" through 1" innerduct.

CAT. NO.	SIZE (IN.)	STD. CTN.
CC120B	8	10

Medium Cutter

For fast square, smooth, field cuts on conduit ½" through 1¼".

CAT. NO.	SIZE (IN.)	STD. CTN.
CC125	9	1

Large Cutter

For clean cuts of conduit ½" through 2".

CAT. NO.	SIZE (IN.)	STD. CTN.
CC122	17½	1

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