Carlon® Resi-Gard™ Flexible Raceway Systems

WHY INSTALL FLEXIBLE RACEWAYS?

How many years ago was just Plain Old Telephone Systems (POTS) the standard for the phone lines? What about Category 3 Cable? How long did Category 4 last? Now what do you install – Category 5? Category 5e? Are some cable companies pushing Category 6? Category 7? What about fiber? Fiber may be a few years away, but it's coming. Carlon's question to you is – ***HOW DO YOU KNOW WHAT WILL BE REQUIRED 5 YEARS FROM NOW? 10 YEARS FROM NOW?*** How are you protecting your homes against the technology changes of the future? How are you future-proofing your home? Installing bundled cable or CAT5e to every outlet in the house isn't the answer. What are you going to do when CAT5e is substandard? This is the first reason why Flexible Raceways should be installed.

FUTURE PROOFING

Even though you may run cable to each room in the house, changes will occur. Cabling standards will change. Homeowner technology requirements will change. Planning ahead for these changes is easy by installing Flexible Raceway. Installing raceways throughout the house will give you the opportunity to easily remove the outdated cable and replace it with new cable without tearing up the walls.

Even EIA/TIA-570-A states, "Within buildings, consideration should be given to establishing spare pathway capacity for future media additions or modifications that would be difficult or impossible to cable."

PROTECTION

Protection is the second reason why a Flexible Raceway system should be installed. Installing cable takes a lot of time and money. By installing it in Flexible Raceway it's protected against other trades accidentally tampering or damaging it. (Resi-Gard has been tested to UL 2024 as a General Purpose Raceway.)

IDENTIFICATION

Just as Carlon® Blue™ is known synonymously throughout the electrical industry as carrying high voltage conductors, low voltage cabling is commonly associated with the color Orange. Installing your cable in orange Carlon Resi-Gard Flexible Raceway will let everyone know that low voltage cabling is in that raceway.

HOW MUCH FLEXIBLE RACEWAY SHOULD YOU INSTALL?

Just as EIA/TIA-570A defines several Grades of Residential Cabling, Carlon understands there is not an all-encompassing Resi-Gard solution that covers every home. Carlon answers this question by establishing Levels of Future-Proofing, Protection, and Identification to help you decide.

LEVEL 1 - MINIMUM

At a minimum, Carlon recommends installing 2-inch Resi-Gard Flexible Raceway from the distribution box area into the attic of your home, otherwise known as a vertical "main" chase. This chase creates a pathway inside the wall that allows you to easily distribute future cables. Depending upon the quantity and size of the cabling being installed and the number of distribution panels, more than one chase may be necessary.

LEVEL 2 - MODERATE

Moderate coverage includes a main chase from the basement to the attic and one Resi-Gard Flexible Raceway run to every location where you think you may want to upgrade your low voltage cable in the future. For example, every room where there is a computer with an Internet connection. Therefore, as technology changes, those cables already have the pathway in place, so they can be easily upgraded. Carlon also offers a line of boxes and brackets that allows Resi-Gard Flexible Raceway to attach directly to them.

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LEVEL 3 – MAXIMUM

Maximum coverage includes a main chase(s) and Resi-Gard Flexible Raceway runs to every low voltage outlet. This ensures maximum upgrade ability, protection, and identification. It does not matter what low voltage application your outlet will encounter, the pathway will be in place to allow for maximum flexibility.

Level	Description
1 - Minimum	Main Chase(s)
2 - Moderate	Main chase(s) & 1 Resi-Gard run to every low voltage outlet to where you might want to upgrade.
3 - Maximum	Main chase(s) & 1 Resi-Gard run to every low voltage outlet

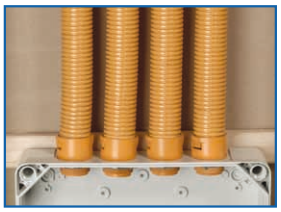
Installing Resi-Gard Flexible Raceway makes upgrading the home's existing cable easy, and increases the home's value. Future owners will appreciate the ability to add new cables without ripping up walls, digging through floors, and poking through ceilings.

INSTALLING FLEXIBLE RACEWAY

We cannot give specific directions on how to route Resi-Gard through the home because each home is constructed differently. However, we can give generic installation recommendations.

MAIN CHASE

When you install a Resi-Gard Flexible Raceway chase, it's run from the basement or equipment closet to the attic through common interior walls or up through an exterior wall.



From the First Floor

Run the Resi-Gard from the low voltage outlet location, down vertically through the sill plate and into the basement. Then in the basement, run it horizontally to the distribution panel.

From the Second Floor

Install the Resi-Gard from the outlet, through the sill plate and header and vertically down through the first floor wall cavity. Then from the first floor run it through the first floor sill plate and into the basement. Then in the basement, run the Resi-Gard horizontally to the distribution panel.

Carlon Resi-Gard is approved for General Purpose use per NEC® Articles 770 and 800.

HOW MUCH DOES LEVEL 3 COVERAGE COST?

The material costs associated with installing a Structured Cable Management System in the average American family home is minimal. Following is a list price material cost calculation per run.

LIST PRICE PRODUCT COSTS:

3/4" Resi-Gard . . . . . $ 0.58 per ft.
3/4" Snap-In Adapter . . . . . $ 1.21 ea.
2" Resi-Gard . . . . . $ 1.74 per ft.
2" Male Terminal Adapter . . . . . $ 1.28 ea.
1-Gang Bracket . . . . . $ 1.24 ea.

MATERIAL COST PER OUTLET ASSUMING:

1st Floor . . . . . Average 32 feet from outlet to panel
2nd Floor . . . . . Average 44 feet from outlet to panel
Chase . . . . . Average 30 feet main chase to panel

1st Floor

3/4" Resi-Gard Raceway (32 ft) . . . . $ 18.56
1-Gang Bracket (1) . . . . . $ 1.24
3/4" Snap-In Adapter (1) . . . . . $ 1.21

Total List Price: $ 21.01 per Outlet
(Total Number of 1st Floor Outlets x $ 21.01)

2nd Floor

3/4" Resi-Gard Raceway (44 ft) . . . . $ 25.52
1-Gang Bracket (1) . . . . . $ 1.24
3/4" Snap-In Adapter (1) . . . . . $ 1.21

Total List Price: $ 27.97 per Outlet
(Total Number of 2nd Floor Outlets x $ 27.97)

Main Chase

2" Resi-Gard Raceway (30 ft) . . . . . $ 52.20
2" Male Terminal Adapter (1) . . . . . $ 1.28

Total List Price: $ 53.48

Level 3 Coverage List Price Cost:

$ 53.48 Main Chase
+ $ 21.01 x Number of First Floor Outlets
+ $ 27.97 x Number of Second Floor Outlets

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