

Multi-Gard – Frequently Asked Questions

Can Multi-Gard be used for both power and communication conductors?

No, Multi-Gard is only intended for communications or optical fiber cables.

What is the significance of the one white raceway in the Multi-Gard assembly?

It is a reference so the proper orientation of the assembly can be maintained to insure proper alignment of the optical fiber cables.

Is there a limit to the length of the Multi-Gard assembly run?

Optical fiber cables have been successfully installed in straight length runs in excess of 5,000 feet, but good engineering practice is to utilize manhole pull points at shorter distances, particularly when changes in direction are necessary.

Can Multi-Gard be field cut?

Yes, the assembly can be cut at any location using a handsaw. Care needs to be exercised to make a square cut of the assembly. If the standard coupling body can be used, a standard sleeve coupling is available which utilizes a spacer to keep the innerducts properly aligned. If two male ends are to be joined, a slip coupling assembly is available with a coupling body for the connection of each male end.

What if Multi-Gard is damaged after installation?

Repair kits are available which allow the outer shell and inner ducts to be replaced without removing the optical fiber cable from service.

We just got a call from a customer. He has a contractor who purchased 3-Way, part # MXSS3S-020, Multi-Gard along with some 90 degree Multi-Gard bends.



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He is laying the bend horizontally but is having a problem because the pre-installed innerducts will not line up. What does he need to do?

Is it a possibility that he has misaligned the Multi-Gard? One inner duct is usually a different color from the rest so that you can join them correctly. Usually you have one white and two gray innerducts. The two white innerducts have to join together. Another method is to line up the print lines on the outerduct.

Is it an acceptable installation practice to field bending multi-gard duct or must you use the factory bends. If it is acceptable what radius or total number of degrees will not damage the inner ducts.

It is not acceptable to field bend Multi-Gard because the inner-ducts will not maintain a consistent length and may not bend. In addition, the standard inner-ducts may burn through during pulling.

Carlton sweeps and flexible bends use Nylon inner-ducts to prevent burn through and maintain a consistent length.

I would like to know if you 3,"4," 5" & 6" Bore-Gard Pipes and Multi Ducts are all UL approved? What Is CSA Listed? Please explain? Are all these diameters CSA Certified we are a directional drilling contractor interested in using your products for our Drilling jobs thru out New England. Please keep in mind we are a drilling contractor looking to please our electrical Contractors. This is why your pipe is interesting to us. But our knowledge on CSA is limited. Please e-mail or mail me any and all UL & CSA approvals so that I can use these at my meetings with electrical contractors as they ask us for this info.

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The 3", 4", 5" and 6" Bore-Gard Conduit are both UL Listed and CSA Certified. Bore-Gard is a Schedule 40 Conduit and its intended to be used with either electrical conductors or Optical Fiber/Communication Cabling.

Multi-Gard is an Optical Fiber Assembly and is listed by UL for use with Optical Fiber/Communication Cabling and its not intended to be used with electrical conductors. Bore-able Multi-Gard is new and has not been added to the UL listing as of yet. Since Articles 770 and 800 of the National Electrical Code basically addresses only those installation in a building a listing for this product is not required since 95% of it applications are underground, outside of the building.

I am bidding a project that calls for Carlton 4" 4 cell PVC. The 4" 4 cell PVC must transition to a 5" PVC conduit containing 4-1.25" innerducts. How can this transition be accomplished?

You're going to need reducers for both the outer duct and the innerducts. Are you using 4" Type 40 Multi-Gard? Or the Type C? It makes a difference because the OD's are different. The 1.25" innerducts, are these IPS sizes innerducts? Are they made of PVC or HDPE?

The best thing we could do is have our sales rep contact you. They would be able to sit down with you and review the plans and determine the best options. If you would forward me your phone number I will have them get in contact with you.

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