

MAXCELL® CASE STUDY

MaxCell is Made for Bridges!

Deploying MaxCell on Bridges reduces the number of conduits required in new construction while allowing for future network expansion or supporting multiple carriers in a single conduit structure.

Problem:

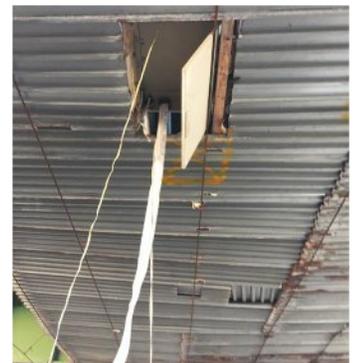
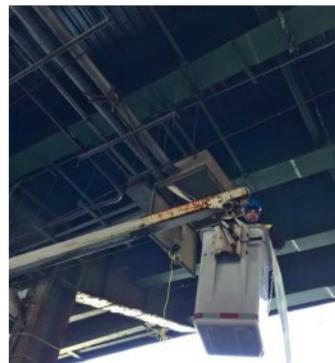
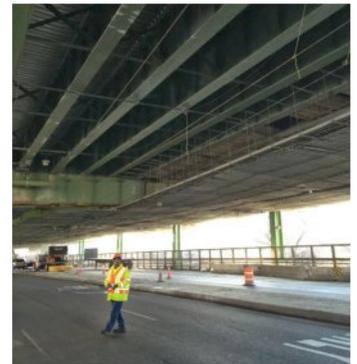
Bridges and viaducts often provide an easy passage over rough or impassable terrain. That principle applies not only to travel, but to network infrastructure as well. This can eventually lead to a bridge being a choke-point for critical communications cabling deployments. Bridges are exposed to the elements and subsequent temperature variances result in significant expansion and contraction when using traditional HDPE and microduct solutions. Over the last few years, a heavily traveled bridge/expressway rehabilitation project in Brooklyn, NY has been undergoing major reconstruction, performed ¼ mile at a time. Part of that project includes funding for new security cameras and LED lighting.

Solution:

MaxCell, the flexible fabric innerduct solution was recommended to the contractor as a solution for this project to provide the cabling pathways for the security cameras and lighting. Some of the reasons that make it a fit include:

- MaxCell's multiple pathway design reduces or avoids permit and right-of-way delays associated with new conduit placement
- The weight of MaxCell is 1/8th the weight of traditional HDPE while providing triple pathways which minimizes the weight load on bridges
- It occupies 1/7th of the volume HDPE which allows installers more room to maneuver in tight workspaces
- The unique fabric mesh is not effected by the temperature variations associated with bridge installations.

4" 3-cell MaxCell was used on the initial phase of this project which was for a pull length of 300' and included one 90 degree sweep. This was the first time that the contractor had used MaxCell and they were impressed with the speed and ease of the process. Because of the success with the initial installation, MaxCell has been used in multiple ongoing phases of this bridge/expressway reconstruction project as it progresses with a few thousand feet at a time.



Future Network Flexibility

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