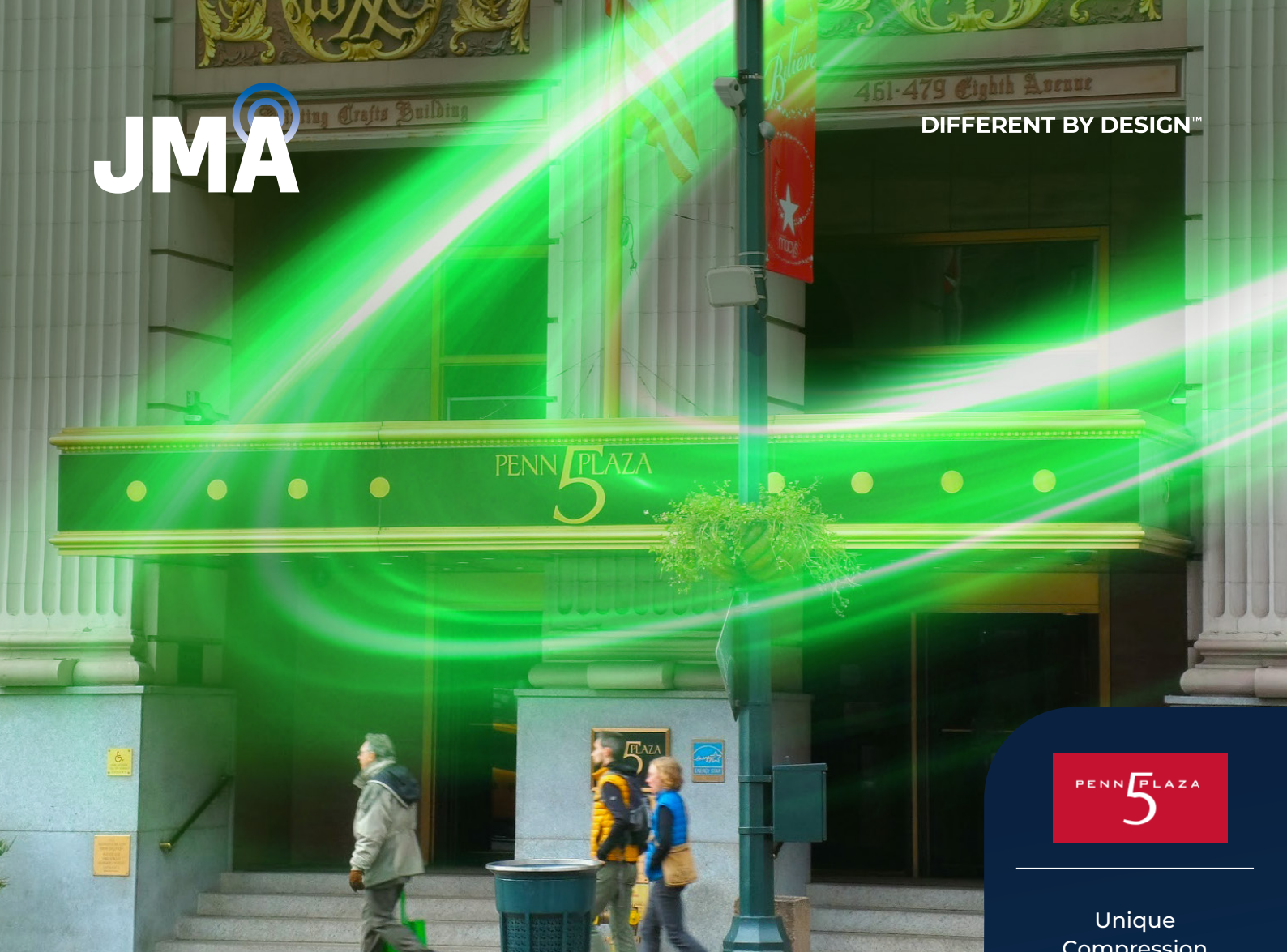




DIFFERENT BY DESIGN™



Unique Compression Connector Solves PIM Issue

CASE STUDY: 5 PENN PLAZA

JMA Wireless' Leading-Edge Solution Turns Around DAS Project at 5 Penn Plaza

OVERVIEW

Iconic New York High-Rise

5 Penn Plaza, one of New York City's most iconic buildings, is located in the heart of the new Midtown West. This historic 24 story high-rise comprised of residential units, offices and retail businesses was originally built in 1915 and was known as the Printing Crafts Building. Now 5 Penn Plaza is home to prominent businesses such as Thomas Publishing, SiriusXM® Radio, Visiting Nurse Service and The Wallace Foundation.

SITUATION

Major PIM Issues Encountered

During installation of a new DAS (Distributed Antenna System) at 5 Penn Plaza, the telecommunications supplier experienced major PIM (Passive Intermodulation) issues on every transmission line. The traditional connectors used on this project did not even meet the carrier's minimum specifications. These failures brought the project to a standstill, resulting in a seven day delay.

5 Penn Plaza DAS project delayed seven days due to PIM failures

JMA Connectors passed 100% on the first attempt

SOLUTION

Unique Compression Connectors from JMA Wireless

The Aarhus deployment with its four residential zones known as Frederick's Place, Growing frustrated with the unexpected project delays and excessive operational costs, the telecommunications supplier turned to JMA Wireless to overcome the PIM issues and get the deployment back on track.

JMA was chosen for this undertaking because it offers world renowned compression connectors that utilize a patented active compression technology, which eliminates PIM, installs in one minute and are guaranteed for long term reliability (see Figure 1).

Once on-site, JMA tested five of the currently installed lines for PIM. All five of the traditional lines failed to meet the carrier's minimum specification of -140 dBc. JMA replaced the traditional connectors with five of its compression connectors and retested the lines. The results were totally opposite with every JMA installed connector passing 100% on the first attempt (see Figure 2).

Due to these connectors' ease of use and one minute installation process, the previously untrained contractors were trained and installing compression connectors within a few hours. They completed over 1,000 connections in less than three days. With the newly installed JMA connectors, the connections passed the carrier's PIM requirement 100%.

RESULT

Time and Money Savings

JMA's compression connectors saved time, money and enabled the customer's DAS project to be completed. If this project continued with the traditional connectors, at the average rate of 20 successful connections installed per day, the project would have been delayed by another 18 days, resulting in \$125,000 of excess operational cost.

Now residents of 5 Penn Plaza are enjoying robust mobile communications thanks to JMA Wireless.



Figure 1: JMA Wireless' unique compression connectors.

\$5,000 daily labor rate
(multiple crews) X (initial 7
day delay + 18 day delay) =
\$125,000

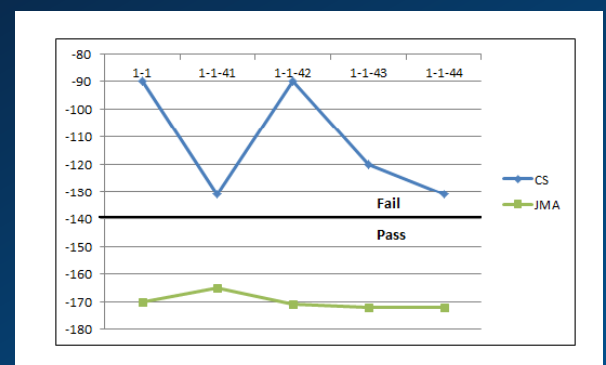


Figure 2: JMA Wireless' connectors pass 100% of the time on the first attempt.

About JMA Wireless

JMA Wireless is the leading global innovator in mobile wireless connectivity solutions that ensure infrastructure reliability, streamline service operations, and maximize wireless performance. Employing powerful, patented innovations their solutions portfolio is proven to lower the cost of operations while ensuring lifetime quality levels in equipment and unrivaled performance for coverage and high-speed mobile data.

JMA Wireless solutions cover macro infrastructure, outdoor and indoor distributed antenna systems and small cell solutions. JMA Wireless corporate headquarters are located in Syracuse, NY, with manufacturing, R&D, and sales operations in over 20 locations worldwide.

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