



Unique
Compression
Connectors
Eliminate PIM

Project delayed
six weeks due to
traditional connector
failures

Incurring \$18,000 in
additional OPEX
due to traditional
connector
issues

CASE STUDY: WELLSPAN YORK HOSPITAL

WellSpan York Hospital Turns to JMA Wireless Solution to Get Its DAS Project Back on Track

OVERVIEW

Key Regional Hospital

WellSpan York Hospital is a regional leader in advanced specialty care and a nationally recognized teaching hospital with seven residency programs, five allied health schools and other training programs. This award winning facility has been recognized by U.S. News & World Report as one of the country's best regional hospitals and Thompson Reuters named it a Top 100 Hospital. This impressive 572-bed hospital employs 4,400 people including 690 physicians. It serves 520,000 plus residents in south central Pennsylvania.

SITUATION

Wireless Challenges Abound

WellSpan York Hospital's DAS (Distributed Antenna System) project was delayed six weeks due to connectors failing to meet the minimum PIM (Passive Intermodulation) requirement on all nine transmission lines. Even though the connector manufacturer supplied "premium" rated connectors as a replacement, for the standard version the issue still was not resolved. The premium connectors were very expensive with each one costing over \$200. Furthermore, WellSpan was charged for six repeat site visits attempting to fix the connector issues. Each visit was \$3,000 resulting in an additional charge of \$18,000.

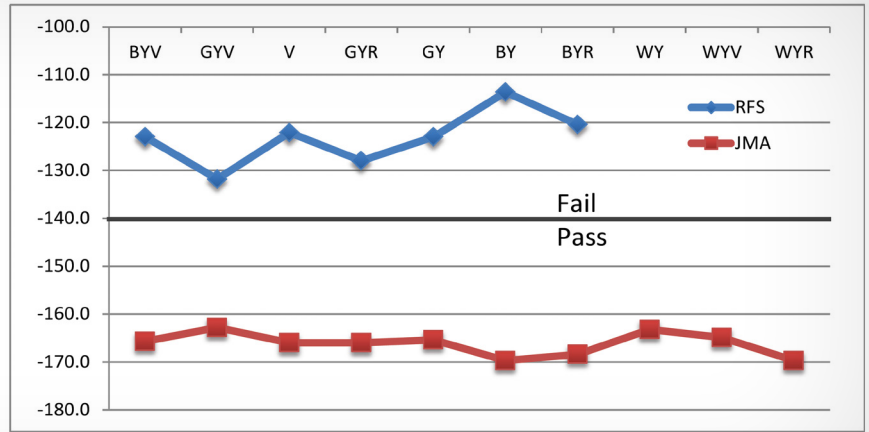


Figure 1: JMA Wireless' unique compression connectors.

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

JMA's connector solutions saved the customer time and money as well as eliminated all PIM failure related issues.

(\$200/original connector -
\$65/JMA) x 18 connectors
= **\$2,430**



\$3,000 daily labor rate
(multiple crews) x (6 days)
= **\$18,000**



Total Savings
\$20,430

SOLUTION

Unique Compression Connectors from JMA Wireless

WellSpan York Hospital turned to JMA Wireless' world renowned universal compression connectors to solve the PIM issues they were experiencing (see Figure 1). These connectors utilize a patented active compression technology, which eliminates PIM, installs in one minute and ensures long term reliability. Plus each JMA connector cost less than half the price of the premium connector from the original contractor.

Every compression connector was replaced with JMA's unique offering. All of the compression connectors were installed in one day and every line passed PIM 100% on the first attempt (see Figure 2). BTS (Base Transceiver Station) activation was scheduled for the following morning, and the site was able to move on to completion.

Unlike the JMA connector solution, the performance of the previous traditional connector was noted as unstable and failed to meet PIM performance greater than -140 dBc (100% failed). Furthermore, a contractor on-site reported that the traditional connector manufacturer was unable to resolve the issue from its own test lab.

RESULT

PIM Eliminated and Project on Track

The original decision to install traditional connectors rather than JMA compression connectors for this DAS project resulted in a six week delay and additional operational costs totaling \$20,430.

With the unique compression connectors from JMA, the WellSpan Hospital project got back on track and all of the issues related to PIM were resolved. In no time the facility's staff, patients and visitors were enjoying the wireless coverage and capacity now supplied by its DAS.

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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