

10 Gigabit for Bosch Rexroth

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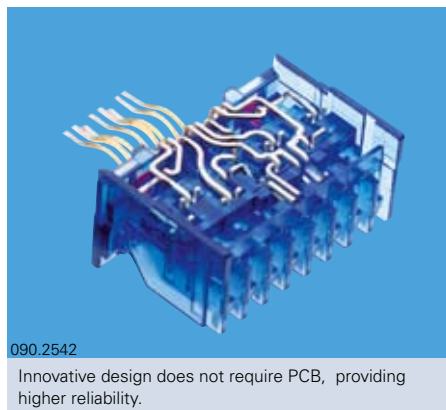


Getronics upgraded the total ICT-infrastructure cabling at the Dutch headquarters of Bosch Rexroth in Boxel. The token ring network was replaced by a Real10 Cat. 6 S/FTP 10 Gb Ethernet system of Reichle & De-Massari. Cabling, connectors and other components of this Swiss manufacturer fulfil the highest quality requirements. The new Real10 Cat. 6 cabling can be used for 1 to 10 Gb Ethernet without any modifications. The high-quality R&M cabling system ensures the needed performance headroom to support future increases in the quantity of data transmitted over the infrastructure.

Business critical

The nature of the use of the Ethernet at Bosch Rexroth varies widely. Relatively low-bandwidth office applications share cabling with high-bandwidth CAD applications. Because heavy machinery at the plant can cause EMI related problems, R&M's shielded (S/FTP) solution was selected.

"Bosch Rexroth understands that cabling and connectors are critical success factors in the manufacturing process," said Erwin Deeben, Project Coordinator at Getronics. "For reliable global data transfer there cannot be any weak spots anywhere in the system. It is not surprising more and more ICT managers require a certified network"



090.2542

Innovative design does not require PCB, providing higher reliability.



020.1578

View of the Bosch Rexroth headquarters in Boxel.

Industry proof

Both data and voice will be transmitted over the new infrastructure. A total of 62 km of Cat. 7 S/FTP cable was installed to maximize the bandwidth capacity of the channel. 1500 outlets were installed and replace about 700 outlets on the token ring network. "Remarkably every outlet – including those in the office areas – fully complies with quality criteria for the plant floor," adds Erwin Deeben. "That is an important advantage of R&M.

In the connectors, the contacts are in one piece from the plug to the IDC where the cable wires are terminated, eliminating internal transfer points found on the printed circuit boards used by many other manufacturers. This clever design ensures a tightly controlled production process which in turn results in higher reliability and quality. The wires are held snugly in the connector making it resistant to vibration and shocks in the plant environment. The gold plating on the contacts assures optimum transmission between the connector and patch cord plug.

Full operation

The new cabling was installed during full operation of the plant. "That was a great challenge for us," said Peter van Rooy, Senior Field Manager at Getronics. "Installation activities should not interfere with production processes. That meant installing during weekends and nights when the giant lathes and other impressive machines were not in use. Fortunately, the assembling of R&M products needs no special tooling, making the in-

stallation faster, safer and more reliable. Due to R&M's clever design, bonding the shield to ground is automatic, ensuring a foolproof connection."

Distributor Netherlands

R&M products are distributed by Forehand Networks, specialists in network infrastructures. Forehand is located in Rotterdam.

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for Bosch Rexroth

- Product quality
- Simple mounting
- Ready for 1 to 10 Gb Ethernet

