Press Release

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Push-Pull Circular Connector Y-Circ P for Single Pair Ethernet and Automotive Ethernet

Yamaichi Electronics offers many different high-speed connectors. Among these are also high-speed versions in the Y-Circ P product group of metallic push-pull circular connectors.

In addition to the standardised SPE versions, Yamaichi Electronics also offers customer-specific solutions based on these push-pull connectors with a high number of mating cycles.

In the in-house laboratory Yamaichi develops, simulates and tests pin layouts for high-speed applications. The S1 pin layout enables the transmission of Single Pair Ethernet up to 10Gbit/s according to IEC 802.3ch and of Automotive Ethernet signals according to the Open Alliance Standard TC9.

The combination of the reliable push-pull mechanism in small size 09 connectors and the innovative, patent-pending insulator and contact design offers highest data rates for special test and measurement applications with at least 5,000 mating cycles.

The new S1 pole pattern is available in straight and even angled device sockets, and Yamaichi Electronics can also assemble the matching connector directly with a cable suitable for SPE on request.

Single Pair Ethernet (SPE) is a future oriented communication platform of electrical or electronical components and machinery and in industrial the key for an efficient and cost saving data transmission from sensor to the cloud.

The use of two instead of – as usual – four or eight wires reduces costs, saves space, weight and time during the assembly.

On request, Yamaichi creates exactly the SPE connector the customer needs for his/her application.

The standardised SPE are also available from Yamaichi Electronics. They include both mating faces acc. to IEC 63171-2 and -6. SPE is a future oriented technology as preparation to industry 4.0.

About Yamaichi Electronics

Yamaichi Electronics is a market leader for Test & Burn-In sockets, connectors and connection systems. Their reliability and functional dependability are essential for
success of the overall project. Yamaichi Electronics established themselves on the world market very quickly as a manufacturer of high quality, reliable components for demanding applications in various markets and applications: semiconductor, industrial automation, automotive, data networking, measurement & testing, medical, mobile computing, embedded computing, and others.

Yamaichi Electronics Deutschland GmbH
Concorpark, Bahnhofstr. 20, 85609 Aschheim-Dornach, Germany
Tel. +49 (0)89 – 4 51 09-0
info-de@yamaichi.eu
www.yamaichi.eu