Munich, October 2013 – The new Y-ConCover-40-O (O stands for Overmold) is an RJ45 hybrid connector consisting of a metal protective housing with additional overmolding that achieves outstanding sealing characteristics. It is based on the Yamaichi Electronics "Hermetic Sealed" technology, which was developed a few years ago for extremely reliable photovoltaic connection systems. The product lifetime of these products is designed to be 25 years.

The Y-ConCover-40-O can thus be used in any RJ45 area with strict requirements for IP sealing (IP 67 / IP 68 / IP 69K), for example in automation, medical technology, the construction industry or in other areas with harsh environmental conditions.

With its unique kink protection, IP protection is maintained even when the cable is bent at a 180° angle. This is possible due to a special connection method used between the cable, metal parts and the overmolding.

The metal housing also allows the Y-ConCover-40-O to withstand the extreme mechanical stresses that frequently occur in industrial applications. It is suitable for Industrial Ethernet and other field bus standards.

The robust metal connector is available in an EMC-protected variant or without EMC protection. The variant with EMC protection can withstand voltage spikes up to 10kV with no influence on the data signal protocol used.
The material used has outstanding temperature ageing resistance in the overmolded area, and can therefore be used over a wide range of temperatures. Its very good resistance against environmental influences such as coolants and lubricants*, solvents*, UV and ozone guarantees a long service life without restrictions in the mechanical or electrical performance of the product.

Like the standard product Y-ConCover-40 without overmolding, the Y-ConCover-40-O is available with a different number of signal contacts, and optionally with additional power contacts as well. The power contacts integrated into the RJ45 permit the simultaneous current transmission of 2.1A at 70°C over the same cable, which means additional cost savings.

The product advantages listed above, along with other advantageous characteristics of all the components in the Y-Con® series, make the Y-ConCover-40-O a robust, long-lasting and reliable connector for all imaginable industrial applications.

**Characteristics**

- RJ45 interface available in different variants (4 / 6 / 8 / + 0/2)
- Available with or without integrated power contacts (2.1A @ 70°C)
- "Hermetic Sealed" technology
- Sealing compliant with protection classes IP67 / IP68 / IP69K
- Temperature range from –20°C to +120°C
- Full metal housing with or without EMC protection
- Designed for high mechanical stress
- Special cable kink protection
- Very high cable strain relief
- Outstanding chemical as well as UV and ozone resistance
- Easy to open and lock with the twist cap
*) Exact specifications can be requested from the manufacturer

**About Yamaichi Electronics**

Yamaichi Electronics is a market leader for Test & Burn-In sockets, connectors and connection systems, the reliability and functional dependability of which are absolutely essential for the 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 the following areas: Automotive, medical technology, telecommunications infrastructure, industrial automation, mobile computer technology, mobile telephones, GPS systems, printers, digital cameras, camcorders and other electronic devices in retail, industrial electronics and photovoltaics.

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