

New Series Y-Con® RJ45 Jack-7x with Magnetics, Light Pipes and Tab-up

Munich, August 2018 – A new reflow-capable RJ45 jack is available in the industrial Y-Con® RJ45 series. The socket for 100 Mbit/s basically consists of a base body with 90° orientation of the connector to the solder pins, along with the "Tab-up" tab orientation. The individual types vary in features to ensure that the right product can be selected to meet customer needs.

The jack optionally has machine-wound transformers, additional integrated power contacts and reflow-capable light pipes. For the power contacts and reflow-capable light pipes, Yamaichi Electronics relies on a mature design that provides customers the greatest possible flexibility in the transmission of power up to 100 W as well as in the transmission of optical signals.

With the two additional power contacts, up to 2.1 A can be transmitted at 70 °C without affecting signal transmission. This is significantly more than provided by PoE. It also saves another cable.

When using light pipes, on the other hand, optical signals can be transmitted from the PCB on the front of the jack just as with an optical fibre. In contrast with the LEDs, however, light pipes have a nearly unlimited lifetime and a cost advantage. The use of light pipes in reflow soldering is also not limited by the high solder temperature, and there is still complete freedom in the selection of light colour.

The integrated machine-wound transformers ensure optimum, consistently good signal transmission, for example if there is no space on the PCB for magnetics when using Ethernet. In contrast with hand-wound transformers, in which performance can depend on the capability of the maker, machine-wound transforms ensure consistent transmission quality. They are also insensitive to vibrations, since the coil bodies are always cast. The series can therefore meet the strictest of requirements in the industrial sector.

Product features:

- 100 Mbit/s / CAT5
- 90° Tab-up
- THT-reflow (260°C for 10 sec.)
- Optional power contacts
- Power transmission through power contacts: 2.1A @ 70°
- Optional light pipes
- Optional magnetics
- Contact area: 30μ" Au
- 1,500 mating cycles
- Compatible with any RJ45 plugs

About Yamaichi Electronics

Yamaichi Electronics is a market leader for Test & Burn-In sockets, connectors and connection systems. Their reliability and functional dependability 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 various markets and applications: semiconductor, industrial automation, automotive, data networking, measurement & testing, medical, mobile computing, embedded computing, and others.

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