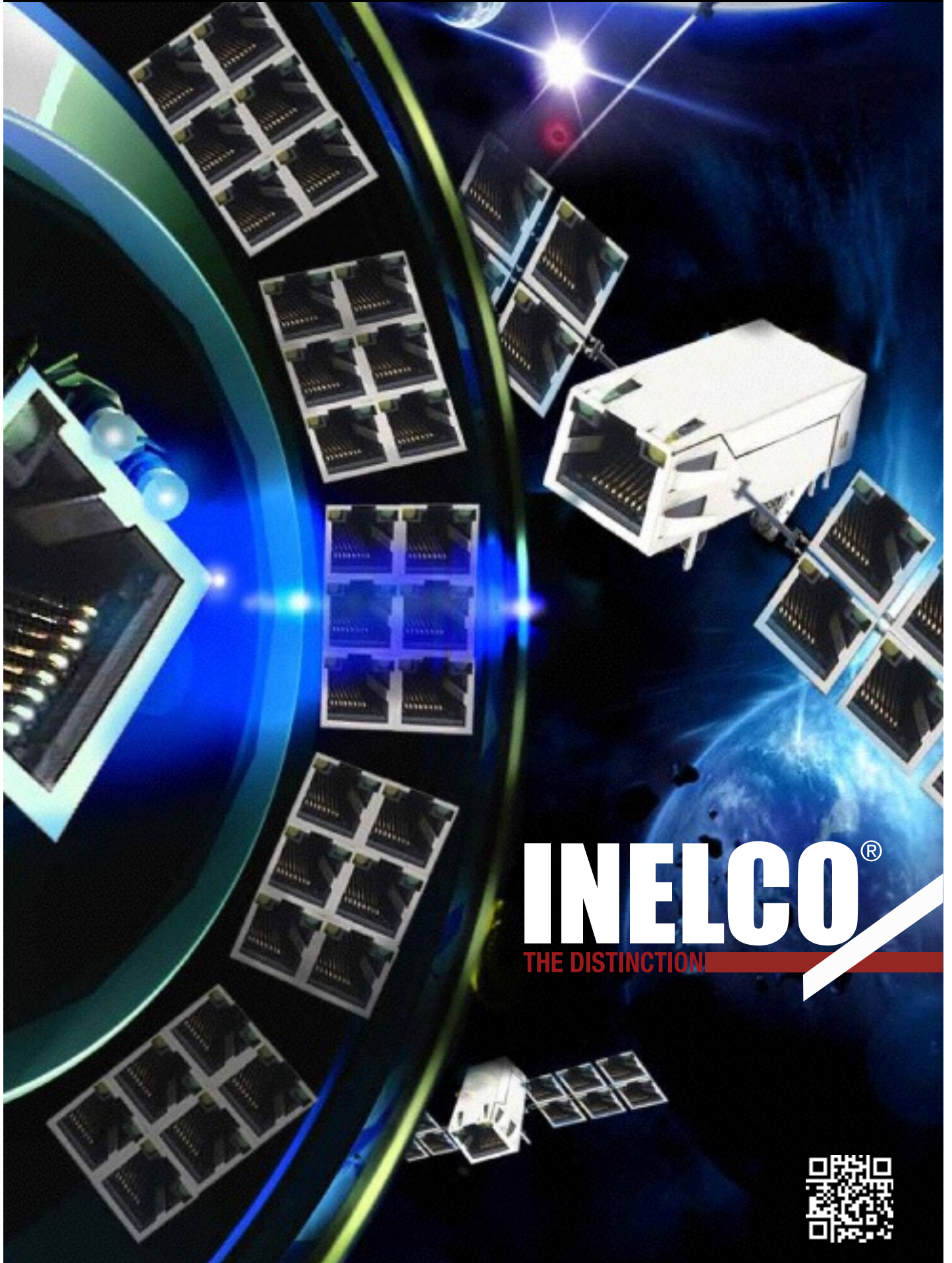


# MODCON<sup>®</sup> RJ45 INDUSTRIAL JACKS



**INELCO<sup>®</sup>**

THE DISTINCTION



RJ45 connectors allow some motion between the mating parts, even when fully seated and locked, because it were originally developed for the typical environment of telephone applications. Today the RJ45 is standardized for many other applications like automotive, medical, networking, computer and industrial applications. Especially for the industrial application the RJ45s were never ever developed for. The harsh environment and the extended force to the mating point are the main problems. INELCO put a lot of effort into the development of a complete new style RJ45's. Even so the connectors look the same from the outside, all items were completely new designed and developed.



Industrial applications mean also higher temperatures and higher mechanic stress for the housings of the jacks. Therefore INELCO redesigned the housing by using a special polyamid based plastic, which withstands higher temperatures than standard high temp plastics, but is soft enough not to break under stress.



The extended working temperatures of -40°C to +85°C, but also shock and vibrations, are creating problems for standard magnetics. Special coils and wires have to be used.



The vibrations and the possible movement of the plug within the jack housing create discontinuity at standard modular jacks. INELCO developed a new contact shape which allows the contact better to follow the plug at movements without being levered.



For shock and vibrations the magnetics are secured encapsulated inside the frame. For continuity at wiggling the contacts get freely suspended.



Additional Features:

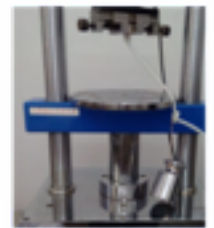
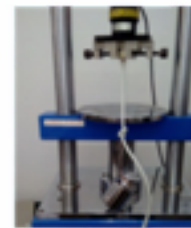
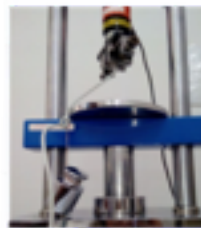
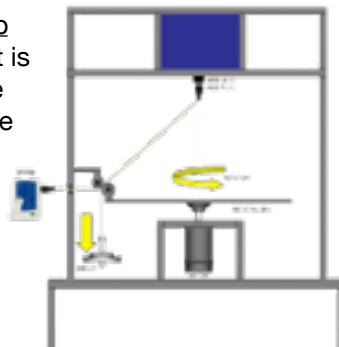
- additional space underneath the vertical version for additional space on the PCB, to be used for e.g. capacitors
- Diamond posts for better hold on the PCB
- same dimensions and footprint for all versions of the same style

Available Versions:

- without magnetics: CAT5e and CAT6
- with magnetics: Profinet, 10/100 BaseT and Gigabit Ethernet
- optional LED's
- various shield options
- optional tape and reel packing

Wiggle (Gorilla) Dynamic Test Setup

The wiggle test is a severe test that is used to evaluate the integrity of the mated plug/jack connection and the risk of loss of electrical continuity. Acceptance Criteria: No loss of electrical continuity of the mated connection and the shield. INELCO's RJ45s are developed and build to pass these tests without any loss of electrical continuity.



Accessories: PVC Dust Cover for RJ45 Jacks



INELCO's modcon<sup>®</sup> RJ45 industrial are a part of INELCO's premium plug series, which is a forward thinking development of enhanced modular plugs for use in industrial and high-speed data environments. Excellent electrical performance, Single-Step termination process (shield & contacts are crimped in 1 operation), 360 degree shield connection, slim design for use in high density applications and capability for field termination, are only some of the many advantages of this plug series.

