



Australian Representatives

ROJONE, PTY LTD.

Tel: 02 9829 1555

E: sales@rojone.com.au

www.rojone.com.au



Custom solutions
FROM DESIGN TO MANUFACTURING



MANUFACTURER & DESIGNER OF INTERCONNECT SOLUTIONS



Custom Solutions

BY NICOMATIC

FROM DESIGN TO MANUFACTURING

Dedicated Structure

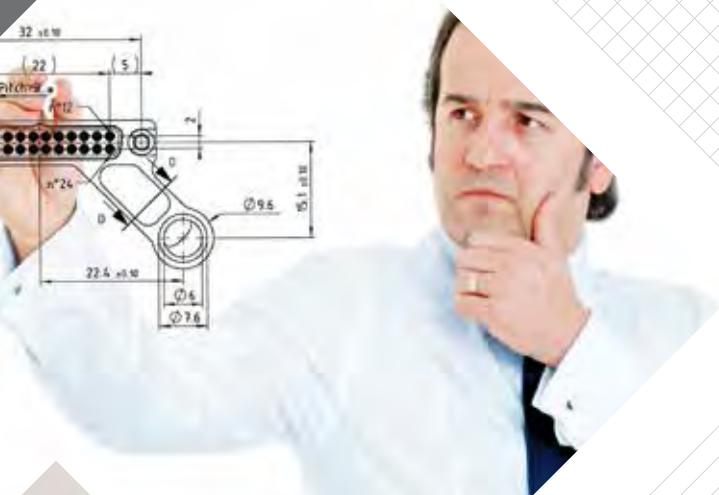
- 1 Project Manager at your service
- 1 complete Project Team following your project
- Dedicated production lines from prototyping to series

Experience

- Worldwide customers: over 60 projects per year
- EN 9100 processes for risk assessment and traceability
- A diversified customer base: Defense, Aeronautics, Medical, Energy...

Customer satisfaction

- Design a unique solution to solve customer challenges
- Reactivity in each step: from design to manufacturing
- All capabilities in house for 100% quality



Project example

CUSTOMER need

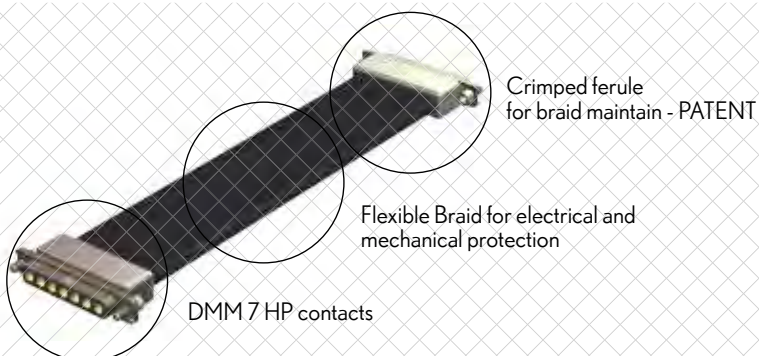
Customer requirements

Back-to-back shielded harness
12 weeks schedule
Save weight and space vs classic backshell

Environment

FADEC -
Military Engines

CONCEPT proposal



NICOMATIC know-how

Electrical	Mechanical	Environmental
High speed signal	Harness	Backpotting
High power contacts	Glue process	Material for vibration resistancy
Mixed layout	Plastic assembly	IP level
Low contact resistance	Crimping technology PATENT	
Signal integrity	Modular crimping tool	

PROTOTYPE

QUALIFICATION

Technical data	
Rated current	3 A max@25°C / 2.2 A max@85°C
Rated voltage (sea level)	200 Vrms
Withstanding voltage (sea level)	600 Vrms
Breakdown voltage (sea level)	800 Vrms
Contact resistance (initial)	8.7 mohms max
Insulation resistance	5 Gohms min
Durability	500 cycles min
Contact engagement / separation force	2 N max. / 0.2 N min
Temperature range	From -55°C to +125°C. (Complies with PbFree reflow T° profile)
Vibration severity	10 to 2000Hz / 15g / 3 axis / 12 cycles per axis. (no signal interruption > than 1 µs)
Shock severity	100g for 6 ms sawtooth. (no signal interruption > than 1 µs)
Salt spray	48h, 5% NaCl
Solvent resistance	HcFc 141bMGX (ATOCEM) solvent
traction	> 1000Newton

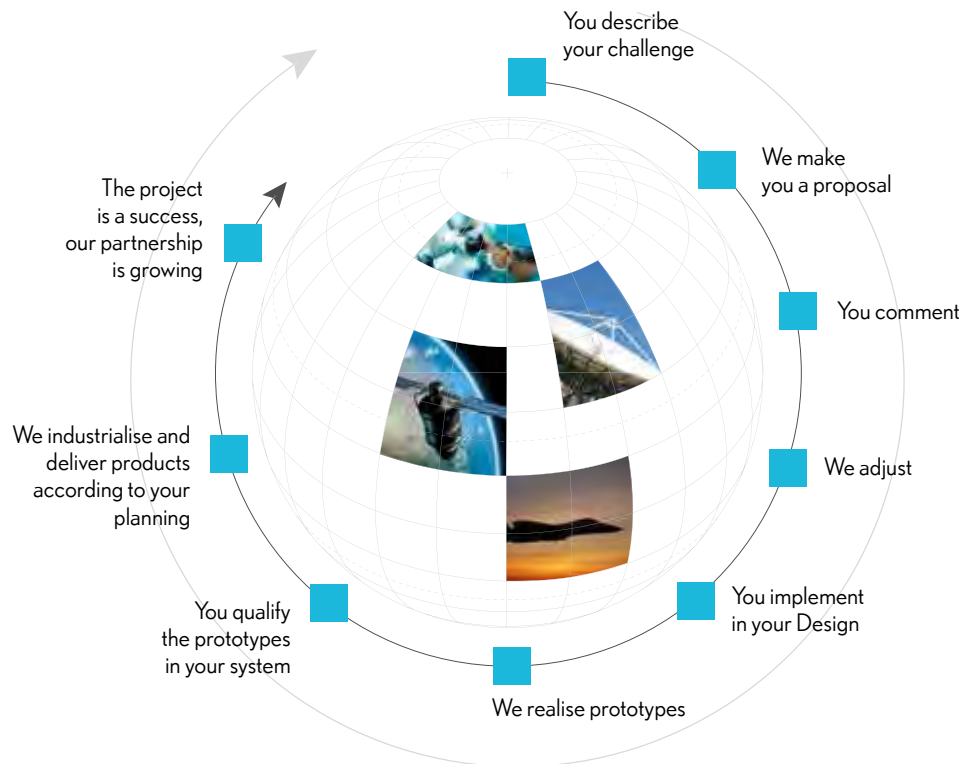
SERIES

12 WEEKS

CUSTOMER satisfaction

From design to manufacturing

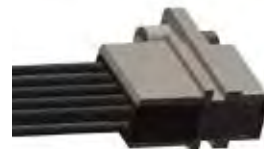
■ Nicomatic can support you in each step of your project



■ Nicomatic can start from

Functional description	Retrofit	Technical specifications	Product customisation	Pictures
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■ Unique know how



Functionalities	Technologies
High speed signal	FFC lamination
High power contacts	Harness
High frequency contacts	Shielding
Low contact resistance	Plating
Signal integrity	Glue process
Fixing hardware	Backpotting
Crimpflex technology	High temperature plastics
Mechanical resistance	Material for vibration resistance
Tactile effect	IP Protection

NICOMATIC Product lines



■ High performance connectors

- > 15 million configurations : LF / HP / HF mixed layout - 2mm pitch
- > CMM pps series, DMM Micro-D Mix metal series
- > For military, aerospace and space applications



■ Connectors for flexible circuits & FFC cables

- > Connectors for flat cable, contacts, crimping press and jumpers - 1.27 / 2.54mm pitch
- > Flat Flexible Cable standard, gold, shielded and controlled impedance From 0.5 to 2.54mm pitch
- > For membrane switches and industrial applications



■ Domes & components for man/machine interface

- > Metal Domes (adhesive spacers, bulk, reel) & LEDs (0.35, 0.5)
- > For membrane switches, consumer electronics, and any man/machine interface



■ Printed Circuit Board connectors

- > SMD test terminals
- > Pin headers & sockets
- > Discret wire to FFC connection

■ ALL CAPABILITY in house

Screw machining	Stamping	Plastic injection	Machining
Prototyping	Assembly	100% made in house for 100% quality	Industrialisation

■ OUR QUALITY policy

In order to better reply to the high technology & electronics market requirements, Nicomatic refers to EN9100 certificate to build its quality system. The control of all steps to market a product is a guarantee for our clients to find an adapted solution to their needs.

Our constant will to improve quality is ensuring a long term development and growth for all NICOMATIC partners.

- EN 9100: 2009
- ISO 9001: 2008
- REACH
- RoHS
- UL standards



OUR MAIN **partners**

SGIA

GICAT

oséo



EDEN

LYON

**Cluster
Lumière**

**AR D I
rhône-alpes**

AEROSPACE

cea

erai

thesame

h e p i a

**oséo
EXCELLENCE**

CTDEC



NICOMATIC

For more information about
NICOMATIC distributor network,
please visit our web site



www.nicomatic.com



NICOMATIC HEADQUARTER

173, rue des Fougères - Z.I. des Bracots - F-74890 Bons-en-Chablais
Tel: +33 (0)4 50 36 13 85 - Fax: +33(0)4 50 36 11 33
E-mail: nicomatic@nicomatic.fr - www.nicomatic.com

NICOMATIC SUBSIDIARIES

- Nicomatic North America, +1(215) 444 9580 / sales@nicomatic.net
- Nicomatic South America, +55 11 3815 4411 / nicomatic@nicomatic.com.br
- Nicomatic China, +86 22 238 88 050 / sales@nicomatic.cn
- Nicomatic India, +91 80 304 683 61 / india@nicomatic.com