



# RIN Connector



Industry  
Railway  
Nuclear



BROCHURE 03/21 - V1.0

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# PRESENTATION

Historically developed for an industrial application in harsh environments, namely the I/O interface of a programmable logic controller intended for the civil nuclear industry, this RIN connector will perfectly meet the requirements of civil nuclear industrial or railway applications in association with a controller or programmable logic controller (PLC).

The function of this connector is to ensure the transmission of information / power supply between frames and fitted cabinets.

The RIN connector has been designed with:

- monobloc receptacle
- quick assembly of the different parts of the plug
- instant snap-in locking
- integrated cable clamp allowing the use of different cable diameters

SIMPLIFIED  
IMPLEMENTATION

HIGH DENSITY

It has 52 contacts including a ground contact (advanced by 1mm in the insulation which allows grounding before plugging in the other contacts).

SECURITY

## APPLICATIONS IN HARSH ENVIRONMENTS

Industry, Railway and Nuclear

## REACH AND ROHS

RIN connector in accordance with the REACH and RoHS spec.

# MAIN TECHNICAL FEATURES

## MATERIAL

Shell material	: Thermoplastic
Contacts material	: Phosphor bronze
Contacts plating	: Gold plating on nickel undercoat

## ENVIRONMENTAL

Operating temperature : -25°C to +85°C

## ELECTRICAL

Max. current rating per contact	: 5 A
Nominal voltage	: 300 V
Withstanding voltage	: $\geq 1800$ V eff
Contact resistance	: $\leq 0,01 \Omega$
Insulation resistance	: $\geq 10^3$ M $\Omega$

## FLUIDS RESISTANCE

IP33 protection

## MECHANICAL

Contacts retention in insert:  $\geq 60$  N (force applied on the wiring side)  
Endurance: 100 mating / unmating cycles of the plug in the receptacle

## MOUNTING

Tightening torque for cable tie screws: 0.3 N.m

## WIRING OF SOLDER CONTACTS

AWG gauge	: 20 min.
Section	: 0,5 mm <sup>2</sup> max.
Sheath $\varnothing$	: $\varnothing 1$ max.
Stripping length	: 4 mm

# PART NUMBERS & DIMENSIONS

## PLUG

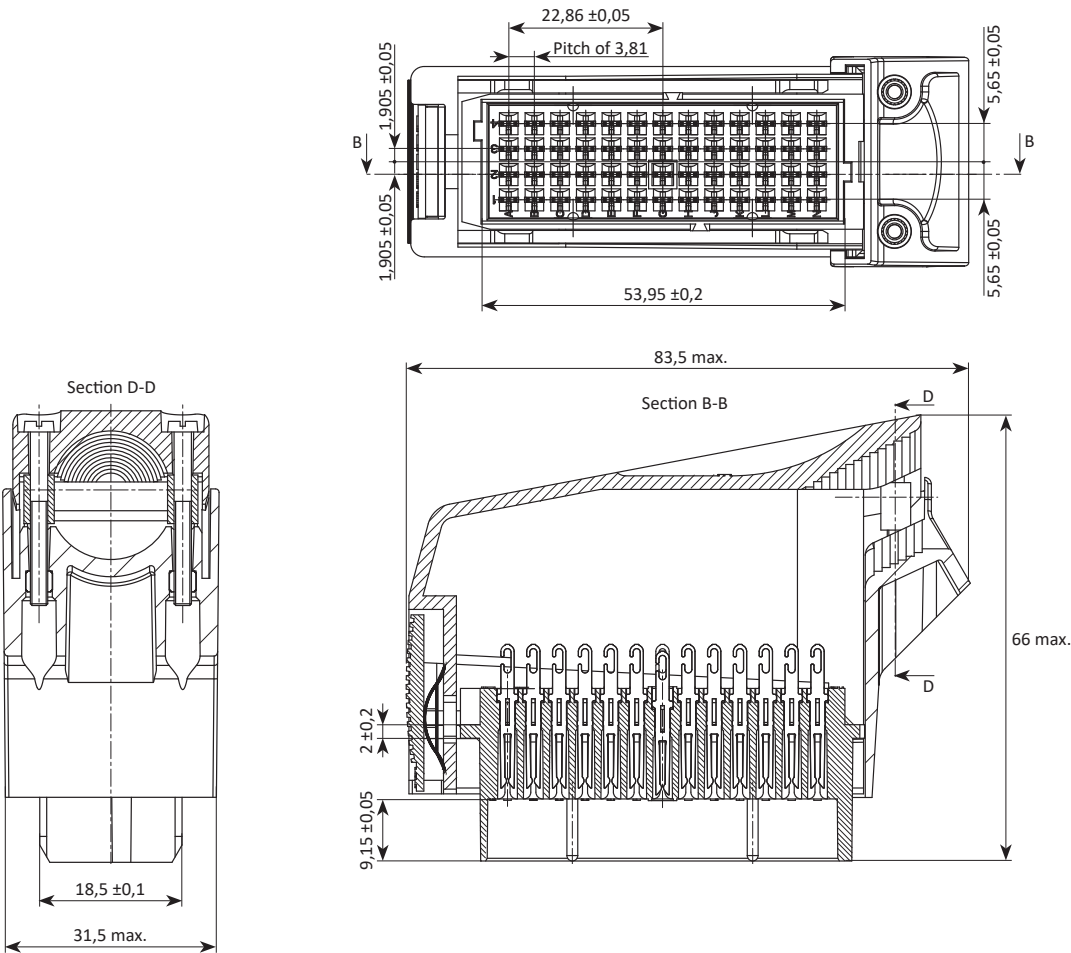
The plug part consists of:

- a plug
- a backshell
- a cable tie

These parts are assembled by a system of grooves and slides.  
The assembly is fixed by two screws inserted in sleeves.

The contacts\* are inserted without tools on the wiring side.  
The extraction is done with the tool P/N 3556 0018 000 OUT.

Plug	3556 8012 000 CRS
Socket contact	3556 0013 046 CTF



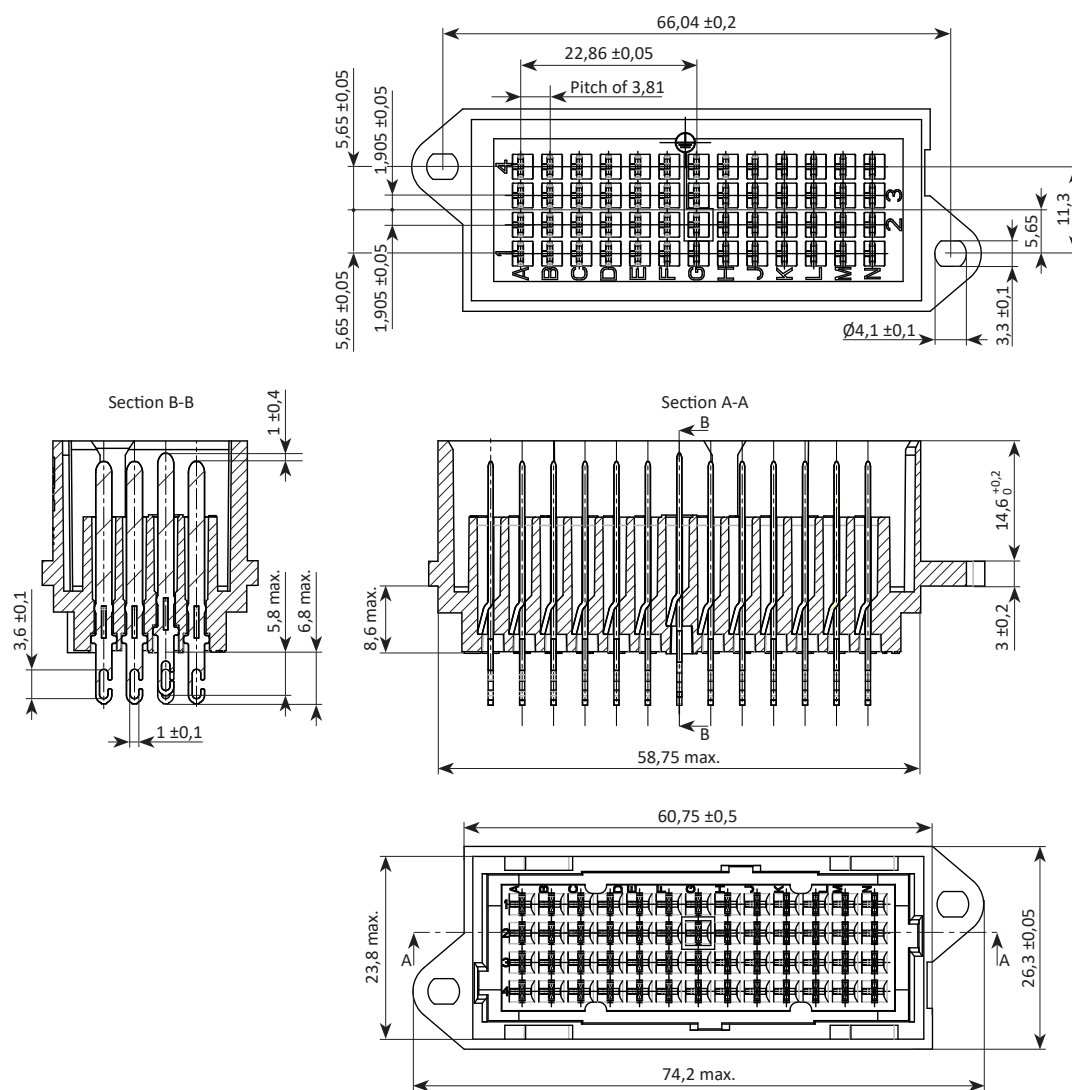
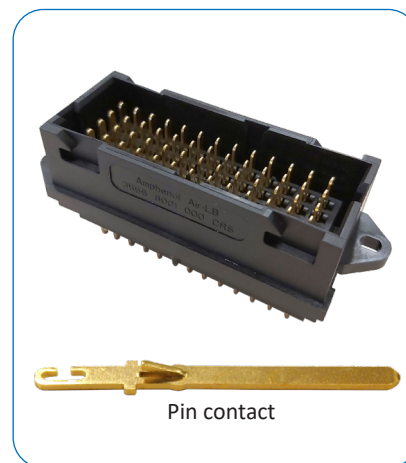
\* The contacts are supplied separately.

## RECEPTACLE

The receptacle is monobloc.

The contacts\* are inserted without tools on the wiring side.  
The extraction is done with the tool P/N 3556 0018 000 OUT.

Receptacle	3556 8011 000 CRS
Pin contact	3556 0012 046 CTM



\* The contacts are supplied separately.