

	DECLARATION OF DESIGN AND PERFORMANCE	Reference DDP Relays sockets with PCB or solder cups contacts
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- **Name and address of supplier:** Amphenol Air LB
 2, rue Clément Ader
 ZAC de WE
 08 110 CARIGNAN France

- **Description of product:** Relays sockets for railway industries with PCB or solder cups contacts.

- **Part number:**

Sockets for relay 2 RT size 22 with PCB contacts and pillars ref: 00154X 2X5 19;
 Sockets for relay 2 RT size 22 with solder cups contacts and pillars ref: 00151X 251 98;

Sockets for relay 2 RT size 20 with PCB contacts and pillars ref: 00154X 351 19 / 3402 80XX 301;
 Sockets for relay 2 RT size 20 with PCB contacts ref: 00150X 8XX XX;
 Sockets for relay 2 RT size 20 with solder cups contacts ref: 00150X 31X XX;

Sockets for relay 4 RT size 20 with PCB contacts and pillars ref: 00154X 3XX 19 / 3404 80XX 301;
 Sockets for relay 4 RT size 20 with PCB contacts ref: 00150X 8XX XX;
 Sockets for relay 4 RT size 20 with solder cups contacts ref: 00150X 3XX XX;

Sockets for relay 6 RT size 20 with PCB contacts and pillars ref: 00154X 6XX 19;

- **Specification number:** NF F 62-002.

- **Overall dimensions, interfaces, connections (electrical, hydraulic, etc.), installation information in drawing:**

According to Railway industrial sockets catalogue

- **Compliance statement related to the specification (including any limitations on use):**

The qualification is equivalent to NF F 62-002.

- **Inspection and maintenance instruction reference:** As specified in Amphenol Air LB quality manual

- **Qualification test report reference:** /

See following table for the main performances:

Constitution	
Shell material	Thermoplastic
Shell plating material	Not concerned
Insulation material	Not concerned
Contact material	Copper alloy
Contact plating material	Gold

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Mechanical performances		
Description	Data	Units
Insert retention in housing (minimum)	Not concerned	daN
Contact retention in insert (minimum)	Not concerned	daN
Mechanical endurance	Not concerned	Cycles
Vibrations (type)	Random	Not applicable
Vibrations (maximum frequency)	250	Hz
Vibrations (amplitude)	0,55	g
Vibrations (duration)	0,5	hours
Shocks (type)	Demi sinusoid	Not applicable
Shocks (amplitude)	30	g
Shocks (duration)	18	ms
Resonant frequency minimum	Not concerned	Hz
Static loads (minimum)	Not concerned	daN

Climatic performances		
Description	Data	Units
Maximum temperature of use	+150	°C
Minimum temperature of use	-55	°C
Salt mist resistance	48	hours
Resistance to fluids	Fuel / Mineral and synthetic hydraulic fluid / Mineral and synthetic oils / Cleaning products / De icing fluid /	Not applicable
Interfacial sealing	Not concerned	mb
Air leakage	Not concerned	cm ³ /hour
Immersion at low air pressure	Not concerned	mb
IP indice	Not concerned	Not applicable

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Electrical performances		
Description	Data	Units
Insulation resistance	1000	MΩ
Voltage proof test	1500	V
Maximum intensity	5 (size 22) 10 (size 20)	A
Contact resistance	Not concerned	mΩ
Shell electrical continuity	Not concerned	mΩ

Optical performances		
Description	Data	Units
Insertion loss	Not concerned	dB
Return loss	Not concerned	dB

Fire behaviour	
In compliance with standard	NF F 16-101 / NF F 16-102

I hereby declare on behalf of the supplier that the information contained in this declaration of design and performance (DDP) is correct.

Date: 10/18/19

Company: Amphenol Air LB

Position held: Engineering Director

Sign:

Name: Jerome CHEVALIER

Date: 10/18/19

Company: Amphenol Air LB

Position held: Quality Director

Sign:

Name: Vincent BEYRIES