	DECLARATION OF DESIGN AND PERFORMANCE	Reference DDP SIM 2 N-D XX X XX
	<i>SIM metallic shell with different plating</i>	Page 1 / 4

- **Name and address of supplier:** Amphenol Air LB
2, rue Clément Ader
ZAC de WE
08 110 CARIGNAN France

- **Description of product:** SIM shells for 2 and 4 modules in aluminium material with different plating.

- **Part number:**

SIM metallic shell for 4 modules with black nickel plating ref: SIM 2N 8X NXX;
SIM shielded metallic shell for 4 modules with black nickel plating ref: SIM 2D 8X NXX;
SIM shielded metallic plates with several rows of 4 modules with black nickel plating ref: SIM 2 D XX 4 NXX;
SIM metallic shell for 4 modules with bright nickel plating ref: SIM 2N 8X KXX;
SIM shielded metallic shell for 4 modules with bright nickel plating ref: SIM 2D 8X KXX;
SIM shielded metallic plates with several rows of 4 modules with bright nickel plating ref: SIM 2 D XX 4 KXX;
SIM metallic shell for 4 modules with olive drab cadmium plating ref: SIM 2N 8X VXX;
SIM shielded metallic shell for 4 modules with olive drab cadmium ref: SIM 2D 8X VXX;
SIM shielded metallic plates with several rows of 4 modules with olive drab cadmium plating ref: SIM 2 D XX 4 VXX;

SIM metallic shell for 2 modules with black nickel plating ref: SIM 2N 4X NXX;
SIM shielded metallic shell for 2 modules with black nickel plating ref: SIM 2D 4X NXX.
SIM shielded metallic plates with several rows of 2 modules with black nickel plating ref: SIM 2 D XX 2 NXX;
SIM metallic shell for 2 modules with bright nickel plating ref: SIM 2N 4X KXX;
SIM shielded metallic shell for 2 modules with bright nickel plating ref: SIM 2D 4X KXX.
SIM shielded metallic plates with several rows of 2 modules with bright nickel plating ref: SIM 2 D XX 2 KXX;
SIM metallic shell for 2 modules with olive drab cadmium plating ref: SIM 2N 4X VXX;
SIM shielded metallic shell for 2 modules with olive drab cadmium plating ref: SIM 2D 4X VXX;
SIM shielded metallic plates with several rows of 2 modules with olive drab cadmium plating ref: SIM 2 D XX 2 VXX;
SIM metallic cable clamps with different plating ref: SIM AN X0 X;

SIM shielded metallic receptacle cover with different plating ref: 00611X 060 XX;
SIM shielded metallic clicker nut plug cover with different plating ref: 00611X 050 XX;
SIM shielded metallic rack plug cover with different plating ref: 00611X 070 XX;

SIM cylindrical chimney for cover with different plating ref: 006114 051 XX;
SIM cylindrical chimney with tie rap for cover with different plating ref: 3350 5009 0XX;
SIM sealing plug for cover with different plating ref: 006114 053 XX;
SIM oval chimney for cover with different plating ref: 006114 052 XX;
SIM oval chimney with lateral hole for cover with different plating ref: 006114 055 XX

SIM metallic flight cap with different plating ref: SIM 2 N 3X X XXXX;
SIM shielded metallic flight cap with different plating ref: SIM D N 3X X XXXX;

SIM metallic polarizing nut for receptacle ref: 006114 210 0X;

- **Specification number:** NF EN 4165-001

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

According to SIM connectors catalogue

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

The qualification is equivalent to EN 4165-001

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

- Qualification test report reference: QTR 11-034 issue.0

See following table for the main performances:

Constitution	
Shell material	Aluminium
Shell plating material	Black nickel / Bright nickel / Olive drab cadmium
Insulation material	Not concerned
Contact material	Not concerned
Contact plating material	Not concerned


Mechanical performances		
Description	Data	Units
Insert retention in housing (minimum)	25.4	daN
Contact retention in insert (minimum)	Not concerned	daN
Mechanical endurance	500	Cycles
Vibrations (type)	Random	Not applicable
Vibrations (maximum frequency)	2000	Hz
Vibrations (amplitude)	22.6	g
Vibrations (duration)	24	hours
Shocks (type)	Sinusoidal	Not applicable
Shocks (amplitude)	100	g
Shocks (duration)	6	ms
Resonant frequency minimum	560	Hz
Static loads (minimum)	10	daN

Climatic performances		
Description	Data	Units
Maximum temperature of use	175	°C
Minimum temperature of use	-55	°C
Salt mist resistance	96 for Nickel plating 500 for cadmium plating	hours
Resistance to fluids	Fuel / Mineral and synthetic hydraulic fluid / Mineral and synthetic lubricant / Cleaning products / De icing fluid / Cooling 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

Electrical performances		
Description	Data	Units
Insulation resistance	Not concerned	MΩ
Voltage proof test	Not concerned	V
Maximum intensity	Not concerned	A
Contact resistance	Not concerned	mΩ
Shell electrical continuity	1 for Nickel plating 2.5 for Cadmium plating	mΩ

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

Fire behaviour	
In compliance with standard	Not concerned (metallic parts)

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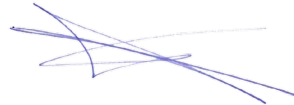
I hereby declare on behalf of the supplier that the information contained in this declaration of design and performance (DDP) is correct.

Date: 10/30/19

Company: Amphenol Air LB

Position held: Engineering Director

Sign:



Name: Jerome CHEVALIER

Date: 10/30/19

Company: Amphenol Air LB

Position held: Quality Director

Sign:



Name: Vincent BEYRIES