

	<b>DECLARATION OF DESIGN AND PERFORMANCE</b>	<b>Reference</b> DDP SIM 2B 2X XXXXX
	<i>SIM Monomodule connector</i>	<b>Page 1 / 3</b>

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

- **Description of product:** SIM shells monomodule in composite material with bright nickel plating.

- **Part number:**

SIM Monomodule plug serie 2 with bright nickel plating: SIM 2B 20 XXXXX;  
 SIM Monomodule plug serie 3 with bright nickel plating: SIM 3B 20 XXXXX;  
 SIM Monomodule long flanged receptacle with bright nickel plating: SIM 2B 24 XXXXX;  
 SIM Monomodule short flanged receptacle with bright nickel plating: SIM 2B 25 XXXXX;  
 SIM Monomodule 3 pins clip on long receptacle: SIM 2B 28 X000X;  
 Metallized accessories for SIM monomodule: SIM 2B 2A XXX;  
 Non metallized accessories for SIM monomodule: SIM 2S 2A XX.

- **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 14-004 issue.Ø;  
 QTR 14-005 issue.Ø;  
 QTR 11-005 issue Ø.

See following table for the main performances:

Constitution	
Shell material	Thermoplastic
Shell plating material	Bright nickel
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	120	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	500	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 <sup>3</sup> /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	3	mΩ

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

Fire behaviour	
In compliance with standard	ABD 0031 / EN 2591-317 / 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 : 09/10/2019

Sign :

Company : Amphenol Air LB

Position held : Engineering Manager

Name : Jerome CHEVALIER

Date : 09/10/2019

Sign :

Company : Amphenol Air LB

Position held : Quality Manager

Name : Vincent BEYRIES