

	<b>DECLARATION OF DESIGN AND PERFORMANCE</b>	<b>Reference</b> DDP SIM 2S 1XX X
	<i>SIM Splice</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 splice in composite material.

- **Part number:**  
SIM splice without cables clamp and without flange ref: SIM 2S 100 X;  
SIM splice with cable clamp and without flange ref: SIM 2S 110 X;  
SIM splice without cable clamps but with flange ref: SIM 2S 102 X;  
SIM splice with cable clamps and flange ref: SIM 2S 112 X.

- **Specification number:** /

- **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 and NF F 61-030

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

- **Qualification test report reference:** QTR 09-024 issue.a;  
QTR 10-004 issue.e.

See following table for the main performances:

Constitution	
Shell material	Thermoplastic
Shell plating material	Not concerned
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	50	Cycles
Vibrations (type)	Sinusoidal	Not applicable
Vibrations (maximum frequency)	3000	Hz
Vibrations (amplitude)	20	g
Vibrations (duration)	12	hours
Shocks (type)	Sinusoidal	Not applicable
Shocks (amplitude)	100	g
Shocks (duration)	6	ms
Resonant frequency minimum	Not concerned	Hz
Static loads (minimum)	Not concerned	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	Not concerned	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