

	DECLARATION OF DESIGN AND PERFORMANCE	Reference DDP SIM 2 S-B XX X XX
	<i>SIM composite 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 CARRIGNAN France
- **Description of product:** SIM shells for 2 and 4 modules in composite material with or without plating.
- **Part number:**
SIM composite shell for 4 modules without plating ref: SIM 2S 8X XX;
SIM reinforced shell for 4 modules without plating ref: 3351 5524 303;
SIM shielded composite shell for 4 modules with black nickel plating ref: SIM 2B 8X NXX;
SIM shielded composite shell for 4 modules with bright nickel plating ref: SIM 2B 8X KXX;
SIM reinforced composite shell for 4 modules with bright nickel plating ref: 3351 5524 020;
SIM shielded composite shell for 4 modules with olive drab cadmium plating ref: SIM 2B 8X KXX;
SIM reinforced composite shell for 4 modules with olive drab cadmium ref: 3351 5524 028;

SIM composite shell for 2 modules without plating ref: SIM 2S 4X XX;
SIM shielded composite shell for 2 modules with black nickel plating ref: SIM 2B 4X NXX;
SIM shielded composite shell for 2 modules with bright nickel plating ref: SIM 2B 4X KXX;
SIM shielded composite shell for 2 modules with olive drab cadmium plating ref: SIM 2B 4X KXX;

SIM composite component protection cover with or without plating ref: 3351 601X XXX;
SIM composite adjustable cable clamps with or without plating ref: 3351 602X XXX;
SIM composite monoblock cable clamp without plating ref: 3351 608X 303;
SIM composite cover for alignment of bus contacts without plating ref: 3351 6104 303;

SIM shielded composite receptacle cover with different plating ref: 3351 607X 0XX;
SIM shielded composite clicker nut plug cover with different plating ref: 3351 606X 0XX;
SIM shielded composite rack plug cover with different plating ref: 3351 609X 0XX;

SIM shielded composite clicker nut plug cover with segregation with different plating ref: 3351 8376 0XX;

SIM composite polarizing key for plug ref: 006114 200 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 14-007 issue.0

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See following table for the main performances:

Constitution	
Shell material	Composite
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	128	Hz
Static loads (minimum)	10	daN

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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 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	3	mΩ

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

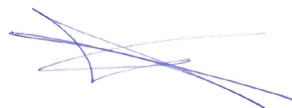
Fire behaviour	
In compliance with standard	ABD 0031 / EN 2591-317 / NF F 16-101 / NF F 16-102

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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 : 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