	DECLARATION OF DESIGN AND PERFORMANCE	Reference DDP SIMTac 0X XX XX
	<i>SIMTac contacts & modules for optical connections</i>	Page 1 / 3

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

- **Description of product:** SIM modules for optical connections.

- **Part number:**

SIMTac 01 male contact ref: SIMTac 01 PX;
SIMTac 01 female contact ref: SIMTac 01 SX;

SIMTac 02 male contact ref: SIMTac 02 PX;
SIMTac 02 female contact ref: SIMTac 02 SX;

SIMTac 03 male contact ref: SIMTac 03 PX XX;
SIMTac 03 female contact ref: SIMTac 03 SX XX;

SIMTac male module for SIMTac 01&02 contacts ref: SIMTac E PX;
SIMTac female module for SIMTac 01&02 contacts ref: SIMTac E SX;

SIMTac male module for SIMTac 03 contacts ref: SIMTac X 03 PX;
SIMTac female module for SIMTac 03 contacts ref: SIMTac X 03 SX;

- **Specification number:** CEI IEC 61754-1.

- **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 CEI IEC 61754-5

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


- **Qualification test report reference:** QTR 19-001 issue ø (SIMTac 03).

See following table for the main performances:

Constitution	
Shell material	Thermoplastic
Shell plating material	Not concerned
Insulation material	Silicone
Contact material	Thermoplastic
Contact plating material	Not concerned

Mechanical performances		
Description	Data	Units
Insert retention in housing (minimum)	25.4	daN
Contact retention in insert (minimum)	8,9	daN
Mechanical endurance	500	Cycles
Vibrations (type)	Random (inside monomodule connector)	Not applicable
Vibrations (maximum frequency)	2000 (in progress)	Hz
Vibrations (amplitude)	22.6 (in progress)	g
Vibrations (duration)	24 (in progress)	hours
Shocks (type)	Sinusoidal	Not applicable
Shocks (amplitude)	100 (in progress)	g
Shocks (duration)	6 (in progress)	ms
Resonant frequency minimum	Not concerned	Hz
Static loads (minimum)	100	daN

Climatic performances		
Description	Data	Units
Maximum temperature of use	125	°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

 Your Satisfaction. Everyday. Everywhere.	DECLARATION OF DESIGN AND PERFORMANCE	Reference DDP SIMTAc 0X XX XX
	<i>SIMTAc contacts & modules for optical connections</i>	Page 3 / 3

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

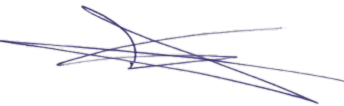
Optical performances		
Description	Data	Units
Insertion loss : Typical measurement	Initially: 0.3 for 95% of the samples with a maximum of 0.5. After test: 0.7	dB
Return loss	20	dB

Fire behaviour	
In compliance with standard	ABD 0031 / EN 2591-317

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

Date : 08/06/2020

Sign :



Company : Amphenol Air LB

Position held : Engineering Manager

Name : Jerome CHEVALIER

Date : 08/06/2020

Sign :



Company : Amphenol Air LB

Position held : Quality Manager

Name : Vincent BEYRIES