

	DECLARATION OF DESIGN AND PERFORMANCE	Reference DDP 3559 XXXX XXX
	<i>Push pull connector type 3559</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:** Push pull connectors in composite material.

- **Part number:**
 Plug for push pull connector ref: 3559 8001 XXX;
 Standard receptacle for push pull connector ref: 3559 8000 XXX;
 Flanged receptacle for push pull connector ref: 3559 8002 XXX;

 Plug for push pull connector equipped with SIM modules ref: 3559 91 XX XXX;
 Standard receptacle for push pull connector equipped with SIM modules ref: 3559 91XX XXX;

 Cable clamp ref: 3357 0001 XXX.

- **Specification number:** ABS 1152 / BPS-C-232

- **Overall dimensions, interfaces, connections (electrical, hydraulic, etc.), installation information in drawing:**
 According to Push pull connectors catalogue

- **Compliance statement related to the specification (including any limitations on use):**
 The qualification is equivalent to ABS 1152-001 / BPS-C-232.

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

- **Qualification test report reference:** QTR 14-007 issue.ø / CRE 08-017 issue b / CRE 06-010 issue e;
 CRE 02-547 issue.ø / CRE 02-541 issue ø.

See following table for the main performances:

Constitution	
Shell material	Thermoplastic
Shell plating material	Not concerned
Insulation material	Silicone (for shell with module)
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)	4.4 for size 22 6.7 for size 20 11.0 for size 16; 12 & 08	daN
Mechanical endurance	100	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)	50	g
Shocks (duration)	11	ms
Resonant frequency minimum	Not concerned	Hz
Static loads (minimum)	4	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	147	mb
Air leakage	4	cm ³ /hour
Immersion at low air pressure	147	mb
IP indice	Not concerned	Not applicable

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Electrical performances		
Description	Data	Units
Insulation resistance	5000	MΩ
Voltage proof test	1300 for size 22 1500 for other size	V
Maximum intensity	5.0 for size 22 7.5 for size 20 13.0 for size 16 26.0 for size 12 43.0 for size 08	A
Contact resistance	Not concerned	mΩ
Shell electrical continuity	Not concerned	mΩ

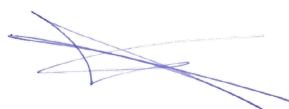
Optical performances		
Description	Data	Units
Insertion loss	Not concerned	dB
Return loss	Not concerned	dB

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 : 10/08/19

Sign :



Company : Amphenol Air LB

Position held : Engineering Manager

Name : Jerome CHEVALIER

Date : 10/08/19

Sign :



Company : Amphenol Air LB

Position held : Quality Manager

Name : Vincent BEYRIES