

	DECLARATION OF DESIGN AND PERFORMANCE	Reference DDP 1900 N D 90 X2
	<i>Connectors type 1900 for optical contacts</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:** Rectangular connectors type EN 3545 for optical contacts.

- **Part number:**

Male connector for 7 optical contacts ref: 1900 N D 90 P2 X00 X;
Female connector for 7 optical contacts ref: 1900 N D 90 S2 X00 X;

- **Specification number:** ABS 1696

- **Overall dimensions, interfaces, connections (electrical, hydraulic, etc.), installation information in drawing:**

According to 1900 connectors catalogue

- **Compliance statement related to the specification (including any limitations on use):**

The qualification is equivalent to ABS 1696-001

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

- **Qualification test report reference:** QTR 10-007 issue d.

See following table for the main performances:

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

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Mechanical performances		
Description	Data	Units
Insert retention in housing (minimum)	Not concerned	daN
Contact retention in insert (minimum)	11	daN
Mechanical endurance	500	Cycles
Vibrations (type)	Sinusoidal	Not applicable
Vibrations (maximum frequency)	3000	Hz
Vibrations (amplitude)	20	g
Vibrations (duration)	12	hours
Shocks (type)	½ sinusoid	Not applicable
Shocks (amplitude)	30	g
Shocks (duration)	3	ms
Resonant frequency minimum	553	Hz
Static loads (minimum)	30	daN

Climatic performances		
Description	Data	Units
Maximum temperature of use	+125	°C
Minimum temperature of use	-65	°C
Salt mist resistance	48	hours
Resistance to fluids	Fuel / Synthetic hydraulic fluid / Mineral and synthetic lubricant / Cleaning products / De icing fluid / Cooling fluid	Not applicable
Interfacial sealing	Not concerned	mb
Air leakage	16	cm ³ /hour
Immersion at low air pressure	Not concerned	mb
IP indice	Not concerned	Not applicable

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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

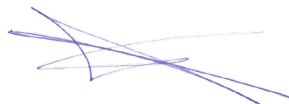
Optical performances		
Description	Data	Units
Insertion loss	Initially: 0.3 for 95% of the samples. After test: 0.7	dB
Return loss	20	dB

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

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 Director

Name: Jerome CHEVALIER

Date: 10/08/19

Sign:



Company: Amphenol Air LB

Position held: Quality Director

Name: Vincent BEYRIES