	<b>DECLARATION OF DESIGN AND PERFORMANCE</b>	<b>Reference</b> DDP 1900 N D 1X X1
	<i>Sealed connectors for aluminium &amp; copper wires type 1900</i>	<b>Page 1 / 4</b>

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

**- Description of product:** Rectangular sealed connectors type EN 3545 for aluminium & copper wires.

**- Part number:**

Sealed male connector 78 contacts size 22 ref: 1900 N D 12 P1 XX X / EN 3545 E 12 MX;  
Sealed female connector 78 contacts size 22 ref 1900 N D 12 S1 XX X / EN 3545 E 12 FX;  
Sealed male connector 7 contacts size 10 ref: 1900 N D 16 P1 XX X / EN 3545 E 16 MX;  
Sealed female connector 7 contacts size 10 ref 1900 N D 16 S1 XX X / EN 3545 E 16 FX;

Sealed male connector 39 contacts size 22 + 10 contacts size 16 ref: 1900 N D 13 P1 XX X /  
EN 3545 E 13 MX;

Sealed female connector 39 contacts size 22 + 10 contacts size 16 ref: 1900 N D 13 P1 XX X /  
EN 3545 E 13 MX.

**- Specification number:** NF EN 3545-001

**- 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 EN 3545-001

**- Inspection and maintenance instruction reference:**

As specified in Amphenol Air LB quality manual

**- Qualification test report reference:**

CRE 164-2 issue ø.

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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


Mechanical performances		
Description	Data	Units
Insert retention in housing (minimum)	35	daN
Contact retention in insert (minimum)	4 for size 22 6 for size 20 11 or size 16 & 10	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)	½ sinusoid	Not applicable
Shocks (amplitude)	50	g
Shocks (duration)	11	ms
Resonant frequency minimum	Not measured	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	48	hours
Resistance to fluids	Fuel / Synthetic hydraulic fluid / Mineral and synthetic lubricant / Cleaning products / De icing fluid / Cooling fluid	Not applicable
Interfacial sealing	147	mb
Air leakage	Not concerned	cm <sup>3</sup> /hour
Immersion at low air pressure	147	mb
IP indice	Not concerned	Not applicable

Electrical performances		
Description	Data	Units
Insulation resistance	5000	MΩ
Voltage proof test	1500	V
Maximum intensity	5.0 for size 22 7.5 for size 20 13.0 for size 16 33.0 for size 10	A
Contact resistance	According to contacts' standards	mΩ
Shell electrical continuity	Not concerned	mΩ

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

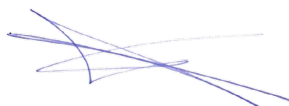
Fire behaviour	
In compliance with standard	EN 2591-317 + ABD 0031

	<b>DECLARATION OF DESIGN AND PERFORMANCE</b>	<b>Reference</b> DDP 1900 N D 1X X1
	<i>Sealed connectors for aluminium &amp; copper wires type 1900</i>	<b>Page 4 / 4</b>

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

Date: 08/10/19

Sign:



Company: Amphenol Air LB

Position held: Engineering Director

Name: Jerome CHEVALIER

Date: 08/10/19

Sign:



Company: Amphenol Air LB

Position held: Quality Director

Name: Vincent BEYRIES