	DECLARATION OF DESIGN AND PERFORMANCE	Reference DDP 001704 XXX XX
	<i>Male and female contacts with gold plating for connectors</i>	Page 1 / 6

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

- **Description of product:** Male and female contacts with gold plating for connectors.


- **Part number:**

Female contact size 26 ref: 3021 2010 046 CTF;
Male contact size 26 ref: 3020 2010 053 CTM;

Female contact size 23 according to X BACC 47HB1 ref: 001704 001 02;
Male contact size 23 according to X BACC 47HA1 ref: 001714 001 02;
Female contact size 23 according to EN 3155-084 F 2323 ref: 001704 001 50 CTF;
Male contact size 23 according to EN 3155-085 M 2323 ref: 001714 001 50 CTM;
Male contact size 23 (removable) for PCB mounting ref: 3020 2170 000;
Female contact size 23 for PCB mounting ref: 001704 063 02;
Male contact size 23 for PCB mounting ref: 001714 063 02.

Male contact size 22 (removable) for PCB mounting ref: 3020 2171 000;
Male contact size 22 according to AS 39029/58-360 ref: 001714 100 02;
Female contact size 22 according to AS 39029/57-354 ref: 001704 100 02;
Male contact size 22 according to EN 3155-008 M 2222 ref: 001714 100 50;
Female contact size 22 according to EN 3155-003 F 2222 ref: 001714 100 50;
Male contact size 22 (specific) ref: 001714 101 02;
Female contact size 22 (specific) ref: 001704 101 02;
Male contact size 22 with barrel size 20 (specific) ref: 001714 102 02;
Male contact size 22 with barrel size 20 (specific) ref: 001714 103 02;
Female contact size 22 (specific) ref: 001704 101 02;
Female contact size 22 with barrel size 20 (specific) ref: 001704 120 02;
Female contact size 22 (specific) ref: 001704 130 02;
Female contact size 22 for PCB mounting ref: 001704 163 02;
Male contact size 22 for PCB mounting ref: 001714 163 02.
Female contact size 22 for PCB mounting ref: 001704 164 02;
Male contact size 22 with barrel for soldering ref: 001714 197 00 CTM;
Male contact size 22 (specific) ref: 3021 2711 053 CTM;
Female contact size 22 with barrel size 28 ref: 3021 1101 021 CTF;
Female contact size 22 serie 3 according to AS 39029/56-348 ref: 001734 100 02;
Female contact size 22 serie 3 ref: 001734 100 02.


Male contact size 20 (removable) for PCB mounting ref: 3020 2172 000;
Female contact size 20 according to EN 3155-019 F 2018 ref: 001704 200 02;
Male contact size 20 according to EN 3155-018 M 2018 ref: 001714 200 02;
Female contact size 20 according to AS 39029/63-368 ref 001704 201 02;
Male contact size 20 according to AS 39029/64-369 ref 001714 201 02;
Female contact size 20 according to EN 3155-015 F 2020 ref: 001704 201 50;
Male contact size 20 according to EN 3155-014 M 2020 ref: 001714 201 50;
Female contact size 20 according to EN 3155-015 F 2018 ref: 001704 202 02;
Male contact size 20 according to EN 3155-014 M 2018 ref: 001714 202 02;
Female contact size 20 (specific) ref: 001704 202 92;
Male contact size 20 (specific) ref: 001714 202 92;
Female contact size 20 according to AS 39029/57-357 ref: 001704 203 02;
Male contact size 20 according to AS 39029/58-363 ref: 001714 203 02;
Female contact size 20 according to EN 3155-003 F 2020 ref: 001704 203 50;
Male contact size 20 according to EN 3155-008 M 2020 ref: 001714 203 50;

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Female contact size 20 (specific) ref: 001704 204 02;
Male contact size 20 (specific) ref: 001714 204 02;
Female contact size 20 according to EN 3155-003 F 2018 ref: 001704 205 02;
Male contact size 20 according to EN 3155-008 M 2018 ref: 001714 205 02;
Female contact size 20 (specific) ref: 001704 205 92;
Male contact size 20 (specific) ref: 001714 205 92;
Female contact size 20 according to X BACC 47HB4 ref: 001704 207 02;
Male contact size 20 according to X BACC 47HA4 ref: 001714 207 02;
Female contact size 20 for PCB mounting ref: 001704 263 02;
Male contact size 20 for PCB mounting ref: 001714 263 02;
Female contact size 20 for PCB mounting ref: 001704 263 02;
Male contact size 20 for PCB mounting ref: 001714 263 02;
Male contact size 20 for wrapping ref: 001714 265 02;
Male contact size 20 for wrapping ref: 001714 266 02;
Male contact size 20 with barrel for soldering ref: 001714 297 00 CTM;
Female contact size 20 serie 3 according to AS 39029/56-351 ref: 001734 203 02;
Female contact size 20 serie 3 ref: 001734 203 50 CTF.

Male contact size 16 (removable) for PCB mounting ref: 3020 2173 000
Female contact size 16 according to AS 39029/5-116 ref 001704 300 02;
Male contact size 16 according to AS 39029/4-111 ref: 001714 300 02;
Female contact size 16 according to EN 3155-019 F 1616 ref: 001704 300 50;
Male contact size 16 according to EN 3155-004 M 1616 ref: 001714 300 50;
Female contact size 16 according to AS 39029/57-358 ref: 001704 301 02;
Male contact size 16 according to AS 39029/58-364 ref: 001714 301 02;
Female contact size 16 according to EN 3155-003 F 1616 ref: 001704 301 50;
Male contact size 16 according to EN 3155-008 M 1616 ref: 001714 301 50;
Female contact size 16 according to EN 3155-003 F 1614 ref: 001704 302 02;
Male contact size 16 according to EN 3155-008 M 1614 ref: 001714 302 02;
Female contact size 16 (specific) ref: 001704 302 92;
Male contact size 16 (specific) ref: 001714 302 92;
Female contact size 16 according to AS 39029/92-533 ref: 001704 303 02;
Female contact size 16 according to AS 39029/92-534 ref: 001704 303 02;
Female contact size 16 (specific) ref: 001704 305 02 CTF;
Female contact size 16 (specific) ref: 001704 310 02;
Female contact size 16 for PCB mounting ref: 001704 363 02;
Male contact size 16 for PCB mounting ref: 001714 363 02;
Female contact size 16 serie 3 according to AS 39029/56-352 ref: 001734 301 02;
Female contact size 16 serie 3 ref: 001734 301 50 CTF.

Male contact size 12 (removable) for PCB mounting ref: 3020 2174 000
Female contact size 12 according to AS 39029/57-359 ref 001704 400 02;
Male contact size 12 according to AS 39029/58-365 ref: 001714 400 02;
Female contact size 12 according to EN 3155-003 F 1212 ref: 001704 400 50;
Male contact size 12 according to EN 3155-008 M 1212 ref: 001714 400 50;
Female contact size 12 (specific) ref: 001704 400 92;
Male contact size 12 (specific) ref: 001714 400 92;
Female contact size 12 (specific) ref: 001704 405 02;
Male contact size 12 (specific) ref: 001714 405 02;
Female contact size 12 for PCB mounting ref: 001704 463 02;
Male contact size 12 for PCB mounting ref: 001714 463 02;
Female contact size 12 serie 3 according to AS 39029/56-353 ref: 001734 400 02;
Female contact size 12 serie 3 ref: 001734 400 50 CTF.

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Female contact size 10 according to EN 3155-003 F 1010 ref: 001704 600 02;
Male contact size 10 according to AS 39029/58-528 ref: 001714 600 02;
Male contact size 10 according to EN 3155-008 M 1010 ref: 001714 600 50;
Female contact size 10 (specific) ref: 001704 600 92;
Male contact size 10 (specific) ref: 001714 600 92;

Female contact size 08 according to EN 3155-066 F 0808 ref: 001704 700 02;
Male contact size 08 (specific) ref: 001714 700 02;
Female contact size 08 (specific) ref: 001704 700 92;
Male contact size 08 (specific) ref: 001714 700 92;
Female contact size 08 according to ABS 1344 ref: 001704 730 02;
Male contact size 08 according to ABS 1403 ref: 001704 730 02;
Female contact size 08 according to ABS 1344 ref: 001704 731 02;
Male contact size 08 according to ABS 1403 ref: 001704 731 02;
Female contact size 08 according to ABS 1344 ref: 001704 732 02;
Male contact size 08 according to ABS 1403 ref: 001704 732 02;
Female contact size 08 according to EN 3155-083 F 0810 ref: 3021 2067 021;
Male contact size 08 according to EN 3155-065 M 0810 ref: 3020 2067 021;
Female contact size 08 according to EN 3155-083 F 0808 ref: 3021 2068 021;
Male contact size 08 according to EN 3155-065 M 0808 ref: 3020 2068 021.

- Specification number:

ABS 1344	EN 3155-003
ABS 1403	EN 3155-004
AS 39029/4	EN 3155-008
AS 39029/5	EN 3155-014
AS 39029/56	EN 3155-015
AS 39029/57	EN 3155-018
AS 39029/58	EN 3155-019
AS 39029/63	EN 3155-065
AS 39029/64	EN 3155-066
X BACC 47 HA	EN 3155-083
X BACC 47 HB	EN 3155-084
/	EN 3155-085


- Mass: According to corresponding reference in contact guide.

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

According to corresponding reference in contact guide.

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

The qualification is equivalent to ABS 1402 / AS 39029 / BPS C 231 / EN 3155-001.

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

- **Qualification test report reference:**

QTR 17-013 issue ø (for contact size 26);
 CRE 07-010 issue ø (for contact size 23 according to XBACC);
 CRE 08-013 issue ø (for contact size 23 according to EN);
 CRE 07-012 issue ø (for contact size 22 according to AS39029);
 CRE 03-007 issue ø (for contact size 22; 20; 16 & 12 according to EN);
 CRE 07-005 issue a (for contact size 20 according to AS 39029);
 CRE 09-003 issue a (for contact ref: 0017X4 207 02);
 CRE 155-2 issue ø (for female contact serie 3);
 CRE 164-2 issue ø (for contact size 10);
 CRE 128-2 issue ø (for contact size 8 according to EN);
 CRE 04-546 issue c (for contact size 8 according to ABS 1344 & 1403);

See following table for the main performances:


Constitution	
Shell material	Not concerned
Shell plating material	Not concerned
Insulation material	Not concerned
Contact material	Copper alloy
Contact plating material	Gold

Mechanical performances			
Description	Data	Units	
Insert retention in housing (minimum)	Not concerned	daN	
Contact retention in insert (minimum)	Not concerned	daN	
Mechanical endurance	500	Cycles	
Vibrations (type)	See corresponding connectors	Not applicable	
Vibrations (maximum frequency)		Hz	
Vibrations (amplitude)		g	
Vibrations (duration)		hours	
Shocks (type)		Not applicable	
Shocks (amplitude)		g	
Shocks (duration)		ms	
Resonant frequency minimum		Hz	
Static loads (minimum)		Not concerned	daN

Climatic performances		
Description	Data	Units
Maximum temperature of use	+200	°C
Minimum temperature of use	-65	°C
Salt mist resistance	48	hours
Resistance to fluids	Not concerned	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	Size 26: 3 Size 23: 5 Size 22: 5 Size 20: 7.5 Size 16: 13 Size 12: 23 Size 10: 33 Size 08: 46	A
Contact resistance	Size 26: 23 Size 23: 8 Size 22: 8 Size 20: 5 Size 16: 3 Size 12: 2 Size 10: 2 Size 08: 2	mΩ
Shell electrical continuity	Not concerned	mΩ

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

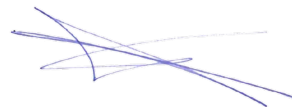
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Fire behaviour	
In compliance with standard	Not concerned

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

Date: 09/05/2019

Sign:



Company: Amphenol Air LB

Position held: Engineering Director

Name: Jerome CHEVALIER

Date: 09/05/2019

Sign:



Company: Amphenol Air LB

Position held: Quality Director

Name: Vincent BEYRIES