
	<b>DECLARATION OF DESIGN AND PERFORMANCE</b>	<b>Reference</b> DDP Multi-axial contacts
	<i>Male and female coaxial / twinaxial / triaxial / quadraxial contacts for connectors</i>	<b>Page 1 / 5</b>

- **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 coaxial / twinaxial / triaxial / quadraxial contacts for connectors.
- **Part number:**

Female coaxial contact size 16 according to AS 39029/78-432 ref: 001704 500 02;  
Male coaxial contact size 16 according to AS 39029/76-424 ref: 001714 500 02;  
Female coaxial contact size 16 according to AS 39029/78-433 ref: 001704 501 02;  
Male coaxial contact size 16 according to AS 39029/76-425 ref: 001714 501 02;  
Male coaxial contact size 16 (specific) ref: 001714 504 02;  
Male coaxial contact size 16 for PCB mounting ref: 3020 2043 000;  
Female coaxial contact size 16 according to AS 39029/77-428 ref: 001734 500 02;  
Female coaxial contact size 16 according to AS 39029/77-429 ref: 001734 501 02 CTF;

Male coaxial contact size 12 for PCB mounting ref: 001714 404 02 CTM;

Female triaxial contact size 08 for PCB mounting ref: 3021 2027 000 CTF;  
Male triaxial contact size 08 for PCB mounting ref: 3020 2027 000;  
Female concentric twinaxial contact size 08 according to AS 39029/91-530 ref: 001704 701 02;  
Male concentric twinaxial contact size 08 according to AS 39029/90-529 ref: 001714 701 02;  
Female concentric twinaxial contact size 08 (specific) ref: 001704 702 02 CTF;  
Male concentric twinaxial contact size 08 (specific) ref: 001714 702 02;  
Female concentric twinaxial contact size 08 (specific) ref: 001704 703 02 CTF;  
Male concentric twinaxial contact size 08 (specific) ref: 001714 703 02 CTM;  
Female quadraxial contact size 08 according to EN 3155-075 F 08 A ref: 001704 705 02;  
Male quadraxial contact size 08 according to EN 3155-074 M 08 A ref: 001714 705 02;  
Female quadraxial contact size 08 (specific) ref: 001704 706 02 CTF;  
Male quadraxial contact size 08 (specific) ref: 001714 706 02 CTM;  
Female quadraxial contact size 08 (specific) ref: 001704 707 02;  
Male quadraxial contact size 08 (specific) ref: 001714 707 02;  
Female quadraxial contact size 08 (specific) ref: 001704 708 02 CTF;  
Male quadraxial contact size 08 (specific) ref: 001714 708 02 CTM;  
Female differential twinaxial contact size 08 (specific) ref: 001704 709 02;  
Male differential twinaxial size 08 (specific) ref: 001714 709 02 CTM;  
Female differential twinaxial contact size 08 for PCB mounting (specific) ref: 001704 710 02 CTF;  
Male differential twinaxial size 08 for PCB mounting (specific) ref: 001714 710 02 CTM;  
Female quadraxial contact size 08 (specific) ref: 001704 711 02;  
Male quadraxial contact size 08 (specific) ref: 001714 711 02;  
Female quadraxial contact size 08 (specific) ref: 001704 712 02;  
Male quadraxial contact size 08 (specific) ref: 001714 712 02;  
Female quadraxial contact size 08 for PCB mounting (specific) ref: 001704 715 02;  
Female quadraxial contact size 08 for PCB mounting (specific) ref: 001704 716 02 CTF;  
Female quadraxial contact size 08 (specific) ref: 001704 717 02;  
Male quadraxial contact size 08 (specific) ref: 001714 717 02;

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Female differential twinaxial contact size 08 according to ABS 1111 ref: 001704 720 02;  
Male differential twinaxial size 08 according to ABS 1112 ref: 001714 720 02 CTM;  
Female differential twinaxial contact size 08 according to ABS 1111 ref: 001704 721 02 CTF;  
Male differential twinaxial size 08 according to ABS 1112 ref: 001714 721 02 CTM;  
Female differential twinaxial contact size 08 according to ABS 1111 ref: 001704 722 02;  
Male differential twinaxial size 08 according to ABS 1112 ref: 001714 722 02;  
Male quadrxial contact size 08 for PCB mounting (specific): 001714 725 02 CTM;

**- Specification number:**

ABS 1111  
ABS 1112  
AS 39029/76  
AS 39029/77  
AS 39029/78  
AS 39029/90  
AS 39029/91  
EN 3155-074  
EN 3155-075

**- 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 AS 39029 / EN 3155-001.

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

**- Qualification test report reference:**

QTR 14-021 issue ø (Coaxial contact size 16);  
QTR 14-022 issue ø (Coaxial contact size 12);  
QTR 14-023 issue ø (Triaxial and concentric coaxial contact size 08);  
CRE 04-005 issue a (Differential twinaxial contact size 8 according to ABS 1111 & 1112)

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	+150 +125 (for twinaxial contacts according to ABS 1111 & 1112)	°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 <sup>3</sup> /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	Coaxial contact size 12 & 16, Differential & concentric twinaxial size 08, Quadaxial size 08: Inner contact: 1 Outer contact: 12 Triaxial contact size 08: Inner contact: 1 Intermediate contact: 1 Outer contact: 12	A
Contact resistance	Coaxial contact size 12 & 16: Inner contact: 10 Outer contact: 1.5 Differential & concentric twinaxial size 08, Quadaxial size 08: Inner contacts: 6 Outer contact: 2 Triaxial contact size 08: Inner contact: 55 Intermediate contact: 55 Outer contact: 6	mΩ
Shell electrical continuity	Not concerned	mΩ

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

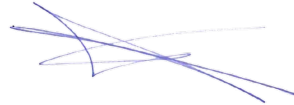
Fire behaviour	
In compliance with standard	Not concerned

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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