

	DECLARATION OF DESIGN AND PERFORMANCE	Reference DDP Junction modules for railway
	<i>Quick junction modules type 1777, 1765, 1119 & accessories</i>	Page 1 / 4

- **Name and address of supplier:** Amphenol Air LB
2, rue Clément Ader
ZAC de WE
08 110 CARIGNAN France
- **Description of product:** Quick junction modules for railway industries type 1777, 1765 & 1119 & accessories.
- **Part number:**
Quick junction modules size 20 ref: 001777 2XX 04;
Quick junction modules size 16 ref: 001777 3XX 04;
Quick junction modules size 12 ref: 001777 4XX 04;
Quick junction modules with mixed contacts ref: 001777 5XX 04;
Quick junction modules with mixed contacts ref: 001777 6XX 04;

Quick junction module size 20 with straight PCB contacts ref: 001777 271 04.

Component carrier modules size 20 ref: 001765 201 77;

Splice size 20 ref: 001119 203 04;
Splice size 16 ref: 001119 302 04.

Frame adaptor for unit module ref: 3202 8024 3XX ACC;
Frame adaptor for perpendicular mounting ref: 3202 8025 3XX ACC;
Frame adaptor for parallel mounting ref: 3202 8026 3XX ACC.
- **Specification number:** NF F 61-030
- **Overall dimensions, interfaces, connections (electrical, hydraulic, etc.), installation information in drawing:**
According to Railway and industrial catalogue
- **Compliance statement related to the specification (including any limitations on use):**
The qualification is equivalent to NF F 61-030.
- **Inspection and maintenance instruction reference:** As specified in Amphenol Air LB quality manual
- **Qualification test report reference:** QTR 16-019 issue ø (modules);
QTR 13-018 issue ø (frame adaptors).

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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	Copper alloy
Contact plating material	Gold

Mechanical performances		
Description	Data	Units
Insert retention in housing (minimum)	Not concerned	daN
Contact retention in insert (minimum)	9.0 (size 20) 11.4 (size 16) 13.6 (size 12 & 10)	daN
Mechanical endurance	Not concerned	Cycles
Vibrations (type)	Random	Not applicable
Vibrations (maximum frequency)	250	Hz
Vibrations (amplitude)	3	g
Vibrations (duration)	15	hours
Shocks (type)	Sinusoidal	Not applicable
Shocks (amplitude)	30	g
Shocks (duration)	18	ms
Resonant frequency minimum	Not concerned	Hz
Static loads (minimum)	Not concerned	daN

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Climatic performances		
Description	Data	Units
Maximum temperature of use	+100 According to components for 001765 201 77	°C
Minimum temperature of use	-40 According to components for 001765 201 77	°C
Salt mist resistance	96	hours
Resistance to fluids	Fuel / Oils	Not applicable
Interfacial sealing	Not concerned	mb
Air leakage	Not concerned	cm ³ /hour
Immersion at low air pressure	Not concerned	mb
IP indice	69 K	Not applicable

Electrical performances		
Description	Data	Units
Insulation resistance	5000	MΩ
Voltage proof test	3250	V
Maximum intensity	5 (size 20) 15 (size 16) 20 (size 12) 30 (size 10)	A
Contact resistance	4 (size 20) 1.3 (size 16) 0.8 (size 12) 0.5 (size 10)	mΩ
Shell electrical continuity	Not concerned	mΩ

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

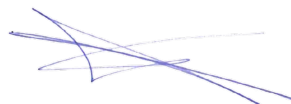
Fire behaviour	
In compliance with standard	EN 45545 / NF F 16-101 / NF F 16-102

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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: 10/14/19

Sign:



Company: Amphenol Air LB

Position held: Engineering Director

Name: Jerome CHEVALIER

Date: 10/14/19

Sign:



Company: Amphenol Air LB

Position held: Quality Director

Name: Vincent BEYRIES