

8559 Series

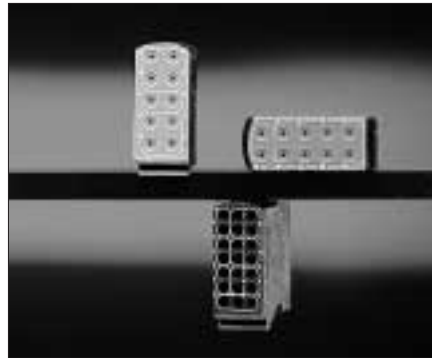


Applications

Building interconnection combinations of variable and transformable composition under a compact size.

Standards

NFC 93462 HL 103 - NFL 53105 B,
Aerospatiale's specification



Description

- Rail profile support where terminations modules are installed
- Two types of modules
- Contacts : size 22 or 20
- Sealed and unsealed version

Characteristics

Mechanical

- Module : thermoplastic (class UL-94-VO)
- Grommet :
 - silicone elastomer (for sealed version)
- Rail profile : aluminum alloy plating - yellow anodized
- Module clamp : stainless steel
- Contact : copper alloy - plating : gold over nickel
- Vibration : to NFC 20616 severity 2000-20 10 to 2000 Hz - 20 g
- Shock : to NFC 20608 - 100 g peak during 6 ms
- Contact retention : size 22 - 5.4 daN
 - size 20 - 9 daN

Electrical

- Test voltage : 1500 Vrms
- Contact resistance : size 22 - 5 mΩ
 - size 20 - 4 mΩ
- Insulation resistance : $\geq 5000 \text{ M}\Omega$ (under 500 Vdc)
- Working voltage :
 - per contact : size 22 : 5 A
 - size 20 : 7.5 A
 - size 22 : 7 A
 - size 20 : 16 A

Climatic

- Temperature range : -55°C +175°C
- Damp heat : to NFC 20603 severity 4 - 56 days

Resistance to fluids :

- JP5
- Skydrol 500 B4
- MIL-L 23699
- Glycol
- MIL-D 16791 - type1
- Methyl ethyl Ketone
- Hyjet IV
- Skydrol L 04
- MIL-L-7870/A
- Air 3660/A
- PD 680 - type 1
- Trichloroethane

Ordering information

Module

basic series		8559	N	20	01	B
class	N - unsealed module		E - sealed module			
module type	22 - size 22 contact		20 - size 20 contact			
contact layouts	see table next page					
last version						

Rail profile part numbers

basic series		8559	RB	2000	A
type of rail profile	RB				
length	2000 - 2 meters				
plating	A - yellow anodized				

Module clamp part number : 8559 S

Cross reference list

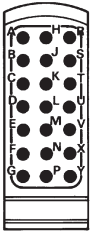
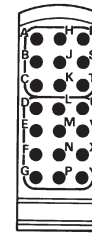
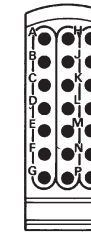
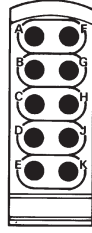
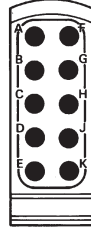
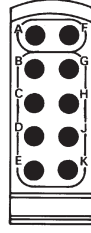
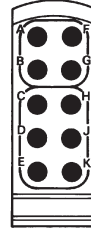
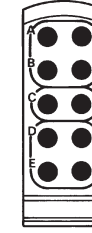
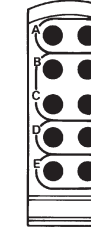
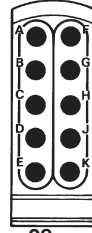
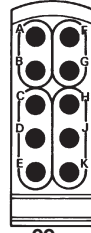
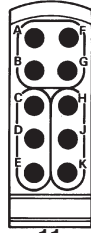
Aerospatiale part numbers	FCI Souriau part numbers
NSA 937 901 MA 22 01	8559 N 22 01 B
NSA 937 901 MA 22 02	8559 N 22 02 B
NSA 937 901 MA 22 03	8559 N 22 03 B
NSA 937 901 MA 22 04	8559 N 22 04 B
NSA 937 901 MA 22 05	8559 N 22 05 B
NSA 937 901 MA 22 06	8559 N 22 06 B
NSA 937 901 MA 20 01	8559 N 20 01 B
NSA 937 901 MA 20 02	8559 N 20 02 B
NSA 937 901 MA 20 03	8559 N 20 03 B
NSA 937 901 MA 20 04	8559 N 20 04 B
NSA 937 901 MA 20 06	8559 N 20 06 B
NSA 937 901 MA 20 07	8559 N 20 07 B
NSA 937 901 MA 20 08	8559 N 20 08 B
NSA 937 901 MA 20 09	8559 N 20 09 B
NSA 937 901 MA 20 11	8559 N 20 11 B

Aerospatiale part numbers	FCI Souriau part numbers
NSA 937 901 M 22 01	8559 E 22 01 B
NSA 937 901 M 22 02	8559 E 22 02 B
NSA 937 901 M 22 03	8559 E 22 03 B
NSA 937 901 M 22 04	8559 E 22 04 B
NSA 937 901 M 22 05	8559 E 22 05 B
NSA 937 901 M 22 06	8559 E 22 06 B
NSA 937 901 M 20 01	8559 E 20 01 B
NSA 937 901 M 20 02	8559 E 20 02 B
NSA 937 901 M 20 03	8559 E 20 03 B
NSA 937 901 M 20 04	8559 E 20 04 B
NSA 937 901 M 20 06	8559 E 20 06 B
NSA 937 901 M 20 07	8559 E 20 07 B
NSA 937 901 M 20 08	8559 E 20 08 B
NSA 937 901 M 20 09	8559 E 20 09 B
NSA 937 901 M 20 11	8559 E 20 11 B
NSA 937 901 RB 2000	8559 RB 2000 A
NSA 937 901 S	8559 S
NSA 937 910-EA 2200	8559-122
NSA 937 910-EA 2000	8559-120

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Contact layouts

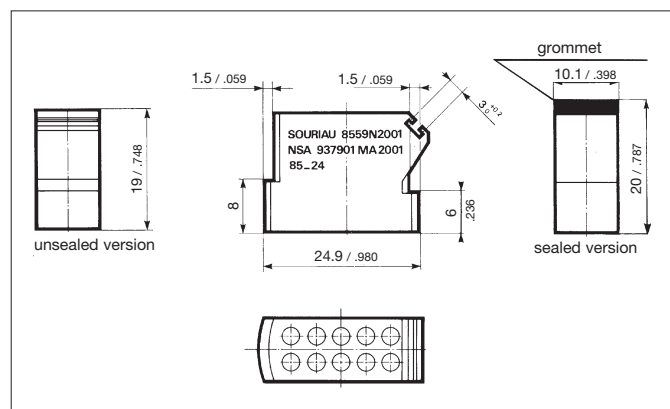
contact size						
22						
	01	02	03	04	05	06
						
	01	02	03	04	06	07
						
	08	09	11			

Contacts

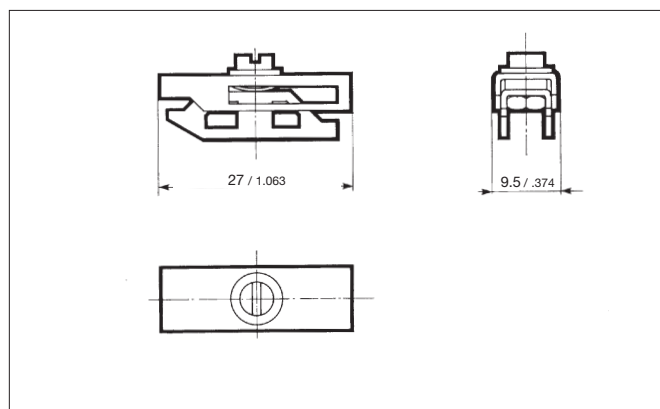
contact size	part numbers	admissible wire section		Ø over insulator (mm)		profile
		mm ²	AWG	min.	Max.	
22	8559-122	0.15	26	0.75	1.09	
		0.25	24	.0295	.0429	
		0.40	22			
20	8559-120	0.25	24	0.85	1.59	
		0.40	22			
		0.60	20	.0334	.0625	
		1.00	18			

Dimensions

Module



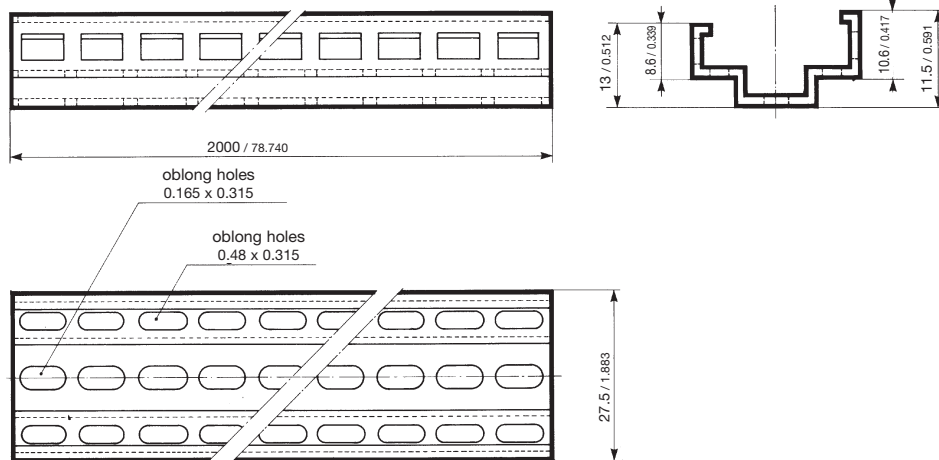
Module clamp



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Rail profile



Tooling

Crimping

contact size	wire sizes		crimping plier	locator
	mm ²	AWG		
22	0.15	26	8476-01 (M22520/2-01)	8572-30A
	0.25	24		
	0.40	22		
20	0.25	24	8365 (M22520/1-01)	8365-02 (M22520/1-02)
	0.40	22		
	0.60	20		
	1.00	18		

Insertion and extraction of wired contacts

contact size	part numbers		colour	
	spec.	FCI Souriau	insertion	extraction
22	M81969.14.01	8599-0022	green	white
	MS27534-22D			
20	M81969.14.11	8522-20	red	white
	MS27534-20			

Filler plugs

contact size	part numbers		colour
	spec.	FCI Souriau	
22	MS27488-22	8660-212	black
20	MS27488-20	8522-389A	red