



Arinc 600 series



Arinc 600 series



SOURIAU

Connectors and interconnect systems for severe environments

The company designs, manufactures and markets high performance interconnect solutions for severe environments from industrial broadband and universal ranges to complex system with integrated functions: filtering, high speed data transmission, hermetic seal, separation mechanism, remote handling, underwater mating, ...



Industrial



Aeronautical



Equipment & System

The dedicated end markets for SOURIAU's products are aeronautical, defense-space and industrial.



Railway
Geophysics
Manufacturing environment
Instrumentation
Automation & process



Civil & military aircraft
Helicopter
Weapon delivery system
Avionics



Military marine
Communications
Satellites
Launcher & missile

SOURIAU was established in 1917 and has been created by successive acquisitions of the industrial, aeronautical, defense and space activities of SOURIAU, JUPITER and BURNDY.

The Group's products are engineered and manufactured in the USA and Dominican Republic, Europe and Morocco, Japan and India, and sold by a worldwide sales and marketing organization, and in addition to SOURIAU's offices, a large network of licensed distributors and agents.

SOURIAU complies with most of national and international Quality Assurance Standards, production unit with ISO 14001.

**Quality Certificate
Management System**

ISO 9001

**Environment Certificate
Management System**

ISO 14001

**Quality Certificate
Management System**

Aeronautic Industry : EN 9100

Arinc 600 series



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Applications



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Benefits

Rackable solution

- ▶ Blind mate, Clearance device for better rackability
- ▶ Low insertion force

Modular solution

- ▶ Wide range of insulators and type of contacts: signal, power, coax, triax, twinax, Elio® fiber optic

Repairable solution

- ▶ Front and rear release removable contacts, flex circuit integration and cabling

High density solution

- ▶ Up to 800 #22 signal contacts
- ▶ Up to 56 #8 quadrax contacts

Configurable solution

- ▶ Build your own connector matching your exact needs

Many options available

- ▶ EMI RFI shielding solution
- ▶ Nickel and alodine plating
- ▶ 100A power capability
- ▶ Fixing type
- ▶ Grounding
- ▶ Filtering

Arinc Speed Service

For high speed data transmission & standard needs

- . Plug & Receptacle size 2 & 3
- . Nickel & Alodine plating shells
- . Standard & High Speed inserts
50 pts / 100 pts / 121 pts / 28 pts / 11C2 / C4Q11 / 11Q2 / 20Q4 / 68Q2 / 62Q2 / 118Q2
- . Coax / Quadrax / Elio® Fiber Optic contacts

2

Weeks Quote & Drawings

6

Weeks Prototypes Delivery*

* max 5 pieces

10

Weeks Series Delivery**

** max 50 pieces

SOURIAU
COMMITMENT

Consult us:
contactmilaero@souriau.com

Product Overview

*Configure your own
Rack & Panel solution...*

- + choose your shell size*
- + your plating*
- + your inserts*
- + your contacts*
- + your polarization*
- + your mounting*

Your connector

*Match perfectly your
Box connection needs*

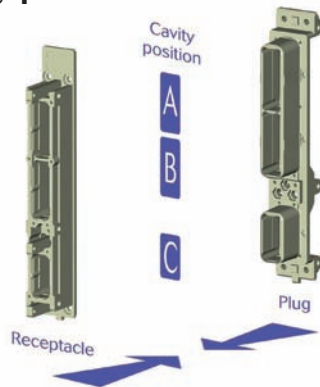
This diagram illustrates the modular components of a connector system. On the left, a perspective view shows a completed assembly with a grey shell, black inserts, and blue contacts. Below this, an exploded view shows the individual parts: a grey shell, two black inserts, blue contacts, and various mounting hardware including screws, nuts, and brackets. To the right, a collection of yellow and green contacts is shown, along with a stack of yellow and green polarization inserts. At the bottom, two large blue arrows point towards the right, indicating the direction of assembly or the flow of components.

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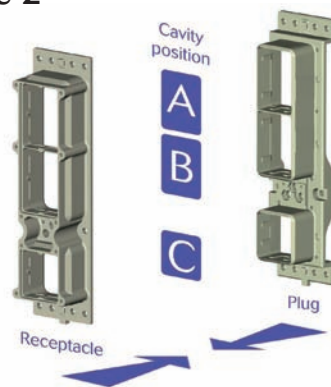


Cavity Overview

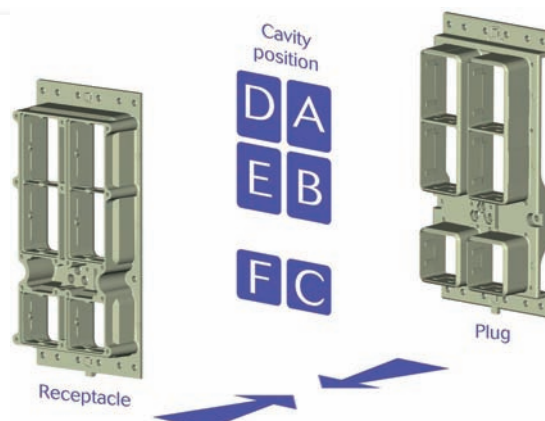
Shell Size 1



Shell Size 2



Shell Size 3



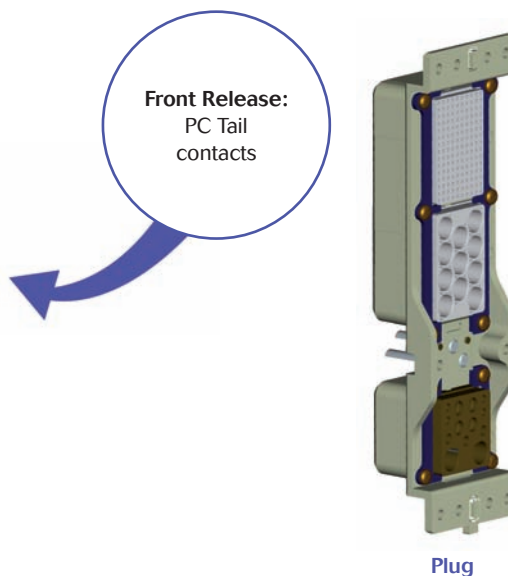
Contacts Release

Possibility to mix rear & front release inserts within the same connector.

Rear Release:
Crimped contacts
& Elzio® fiber
optic contacts



Front Release:
PC Tail
contacts



Rear Release:
Crimped
contacts
& Elzio® fiber
optic contacts

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Layouts

Contact type:

S Signal
 P Power
 C Coax
 T Triax
 Q Quadrax
 E Elio® Fiber Optic

Shell Size 1

Cavity A & B



60 pts
60 #22



Dummy
Insert*

Cavity C



40 pts
40 #22



5W2
2 #16
1 #12
2 #5



Dummy
Insert*

Shell Size 2 & 3

Cavity C & F



100 pts
100 #22



85 pts
80 #22
4 #20
1 #16



68Q2
68 #22
2 #8



62Q2
60 #22
2 #16
2 #8



62T2
60 #22
2 #16
2 #8



62T2S
60 #22
2 #16
2 #8



34 pts
24 #20
10 #16



20T4
20 #20
4 #8



20Q4
20 #20
4 #8



11C2
4 #20
3 #16
4 #12
2 #5



11Q2
4 #20
3 #16
4 #12
2 #8



11T2
4 #20
3 #16
4 #12
2 #8



Q6
6 #8



T6
6 #8



Dummy
Insert*

* See table page 28

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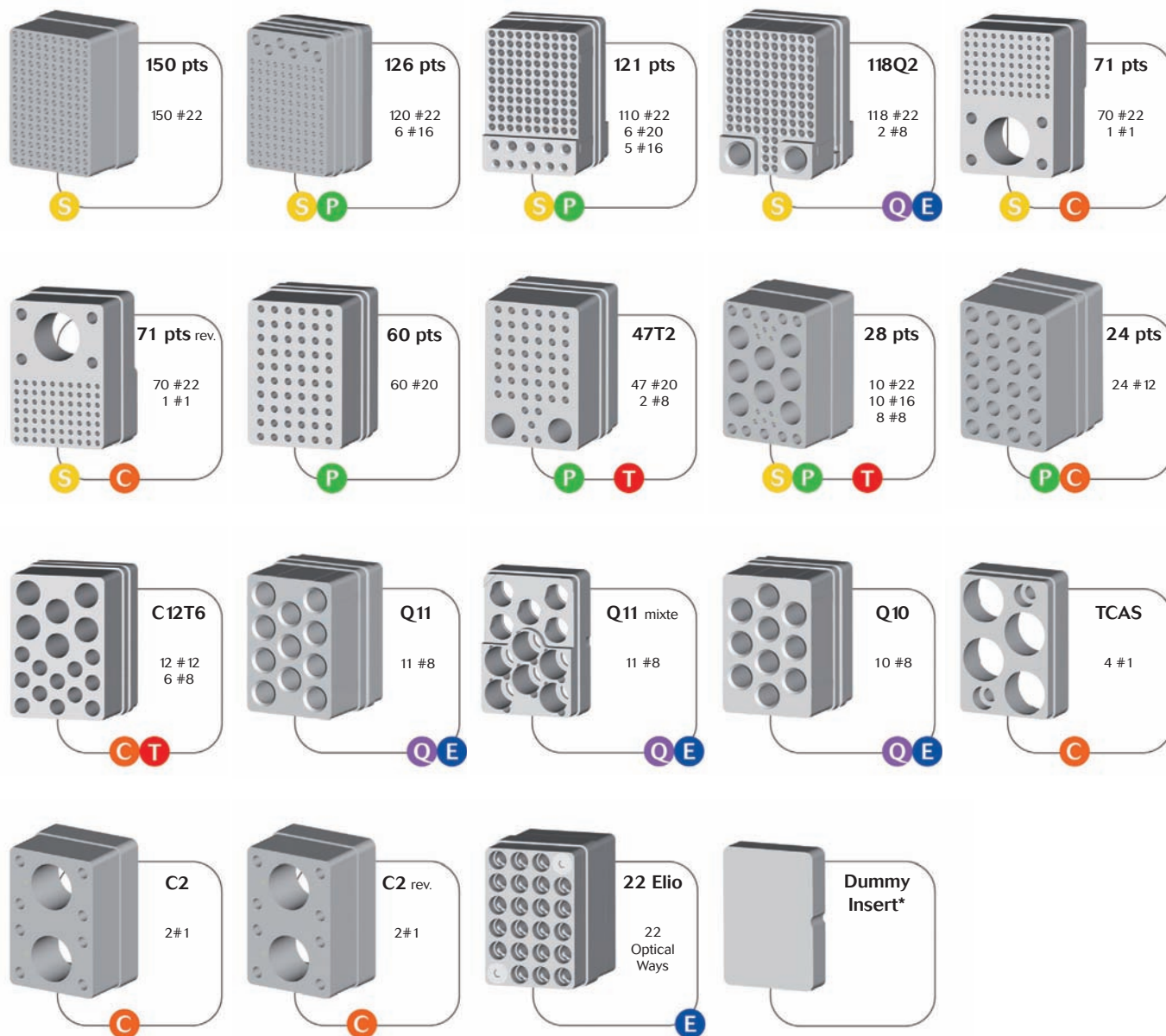
Layouts

Contact type:

S Signal
 P Power
 C Coax
 T Triax
 Q Quadrax
 E Elio® Fiber Optic

Shell Size 2 & 3

Cavity A, B, D & E



* See table page 28

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Layouts

S Signal P Power C Coax T Triax Q Quadrax E Elio® Fiber Optic

Insert	Shell size	Cavity	Contacts type	Number of cavities						
				#22	#20	#16	#12	#8	#5	#1
60 pts	1	A, B	S	60						
40 pts		C	S	40						
5W2			P C			2	1		2	
150 pts	2 & 3	A, B, D, E	S	150						
126 pts			S P	120		6				
121 pts			S P	110	6	5				
118Q2			S Q	118				2		
71 pts			S C	70						1
71 pts rev.			S C	70						1
60 pts			P		60					
47T2			P T		47			2		
28 pts ⁽¹⁾			S P T	10		10		8		
24 pts			P				24			
C12T6			C T				12	6		
Q11			Q					11		
Q11 mixte ⁽²⁾			Q					11		
Q10			Q					10		
TCAS			C							4
C2			C							2
C2 rev.			C							2
100 pts		C, F	S	100						
85 pts ⁽³⁾			S P	80	4	1				
68Q2			S Q	68				2		
62Q2			S P Q	60		2		2		
62T2			S P T	60		2		2		
62T2S mixte ⁽⁴⁾			S P T	60		2		2		
34 pts			P		24	10				
20T4			P T		20			4		
20Q4			P Q		20			4		
11C2			P C		4	3	4		2	
11Q2			P Q		4	3	4	2		
11T2			P T		4	3	4	2		
Q6			Q					6		
T6			T					6		

⁽¹⁾ Triax #8 & #16 cavities (859) specifics

⁽³⁾ #20 and #16 always rear release

⁽²⁾ 5 rear & 6 front or 6 rear & 5 front

⁽⁴⁾ Triax rear and other contacts front release

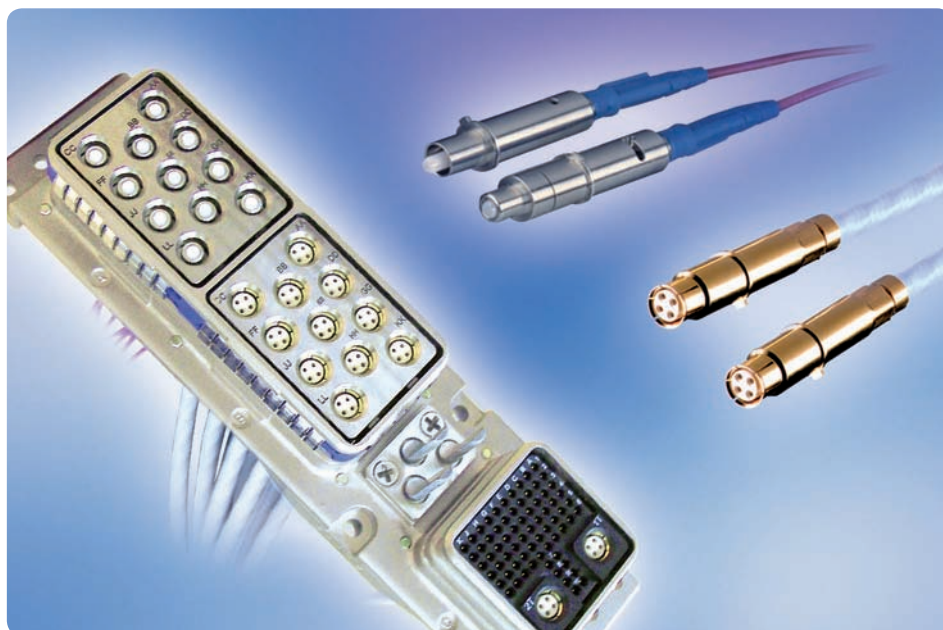
Version for quadrax #8 cavity and Elio® #8 adaptor

Insert name	Shell size	Cavity	Contacts type	Number of cavities						
				#22	#20	#16	#12	Quadrax #8 or Optical way	#5	#1
118Q2	2 & 3	A, B, D, E		118				2		
Q11								11		
Q10								10		
68Q2		C, F		68				2		
62Q2				60		2		2		
20Q4					20			4		
11Q2					4	3	4	2		
Q6								6		

Version for Elio® high density

Insert name	Shell size	Cavity	Contacts type	Number of cavities						
				#22	#20	#16	#12	Optical way	#5	#1
22 Elio	2 & 3	A B D E						22		

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Description

- High performance avionic equipment rectangular connectors compliant to ARINC 600 specifications
- Rack and panel connector
- High density up to 800 signal contacts
- Low insertion force contact design (tapered pin, LIF socket)
- Sealed and unsealed versions
- Multiple polarizing positions
- Field replaceable inserts, featuring .006 in true position of contact cavities
- Choice of front and rear removable contacts
- Contacts : signal, power, coaxial, triaxial, filter, optical fiber and waveguide connection contacts
- Wide range of high performance rack applications

Applications

- Mechanical, electrical and optical interface between on-board civil avionics equipments and racks.

Technical features

Mechanical

	Material	Plating
Shells	Aluminum alloy to QQ-A-591	Alodine 1200 passivation to MIL-C 5541 class 1
	Nickel plating	
Insulator	Epoxy resin thermoset	
	Thermoplastic	
Seals and grommets	Fluorinated silicon compliant to MIL-R-25988	
Contacts	Copper alloy to QQ-B-626	Gold plated compliant to MIL-G-45204 over nickel to QQ-N-290

- Endurance: 500 matings
- Insertion and extraction forces max:
 - . Shell size 1: 120N (27 lbs)
 - . Shell size 2: 267N (60 lbs)
 - . Shell size 3: 467N (105 lbs)
- Vibration: 8 hours in each axis.
Random vibration at 16.4 g Rms from 50 to 2000 Hz
MIL-STD-1344 A method 2005-1
- Dynamic shock: 3 impacts of 50 g in all axis, duration 11µs (half wave) to MIL-STD-202 method 213

Electrical

- Dielectric withstanding voltage

	Mated	Unmated
Sea level	1 500 Vrms	1 500 Vrms
15 000 m	500 Vrms	500 Vrms

- Voltage rating:
 - . 500 Vac Max
 - . 125 Vac at 21 000 m
- Insulation resistance: $\geq 5000 \text{ M}\Omega$
- Current ratings, continuous:

Contact	Wire gauge	Current (A)	Voltage drop max (mV)*
22	22	5	40
	24	3	30
	26	2	25
20	20	7.5	55
	22	3	40
	24	5	30
16	16	13	50
12	12	23	45

* measured over a conductor length of 150 mm

- Triaxial contact size 8
Bandwidth: 0-20 MHz
Voltage rating:
 - . 500 Vac max
 - . 125 Vac at 21 000 m
 Voltage drop:
 - . Inner and middle contact $\leq 55 \text{ mV}$ under 1A
 - . Outer contact $\leq 75 \text{ mV}$ under 12A
- Quadrx contact size 8
Contact resistance (low level): initial 15 M Ω , after tests 30 M Ω
Voltage rating:
 - . 500 Vac max
 - . 125 Vac at 21 000 m

Insulation resistance:

- . at ambient temperature $> 5000 \text{ M}\Omega$
 - . at high temperature $> 1000 \text{ M}\Omega$
- Characteristic impedance: 100 Ω at 100MHz
Attenuation $< 0.3 \text{ dB}$ at 100 MHz typical per contact pair
Contact to shell continuity $< 10 \text{ M}\Omega$

Optical Elio® Contact

- Arinc 600 connector can integrate Elio® fiber optic contacts in #8 quadrx cavities with the addition of Elio #8 adaptor
- Insertion loss: 0.3 dB per contact
- Possibility to mix optical and electrical signals in the same insert
- Flight proven at temperature range -65°C $+125^\circ\text{C}$
- Designed to comply with Elio® contact optical performances

Climatic

- Temperature rating: -65°C to $+125^\circ\text{C}$ for both classes, sealed and unsealed
- Fluid resistance:
 - . Hydraulic to MIL-H 5606
 - . Lubricating to MIL-L 23699
 - . Isopropyl alcohol
- Resistance to salt spray:
 - 48 hours (MIL-STD-202 method 101 or MIL-STD-1344 method 1001)
- Sealing:
 - Environment resistant (sealed version)

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Connector Part Number

Basic Series				SB6	0	2	M	G	13	W2	P	00	01	AN												
Class 0: Sealed (alodine plated) 1: Unsealed (alodine plated) 2: Semi-environmental (without O-ring, alodine plated) 3: Semi-environmental (without O-ring and compound, alodine plated) A: Semi-environmental (without O-ring and compound) with grounding spring (alodine plated) B: Unsealed with grounding spring (alodine plated) D: Unsealed with grounding fingers (alodine plated) N: Unsealed with DOD grounding spring (nickel plated) P: Sealed with DOD grounding spring (nickel plated) C: Sealed with grounding fingers (alodine plated) <i>More information: see page 35</i>																										
Shell Size 1-2-3 <i>More information: see page 7. Drawings: see pages 29 to 31</i>																										
Shell Style F: Equipment receptacle M: Rack plug <i>More information: see page 7</i>																										
Series G: Rear release signal and power contacts H: Front release signal contacts (PC Tail and wire wrap terminations for receptacle) and rear release power contacts J: Mix of front and rear release contacts (consult us) K: Front release signal contacts (PC Tail and wire wrap terminations for receptacle) and power contacts <i>More information: see page 7</i>																										
Mounting Styles <i>More information and coding: see page 13</i>																										
Inserts Arrangement Code (2 digits) Shell power cavities C and F <i>More information: see page 8. Coding: see page 14</i>																										
Contact Type P: Male signal contact #22 (rack plug) S: Female signal contact #22 (equipment receptacle) <table><tr><td></td><td>M: rack plug</td><td>F: equipment receptacle</td></tr><tr><td>Signal contacts</td><td>male</td><td>female</td></tr><tr><td>Power contacts</td><td>female</td><td>male</td></tr><tr><td>Quadrax, coaxial and triaxial contacts</td><td>female</td><td>male</td></tr></table> <i>More information: see pages 20 and 24</i>																M: rack plug	F: equipment receptacle	Signal contacts	male	female	Power contacts	female	male	Quadrax, coaxial and triaxial contacts	female	male
	M: rack plug	F: equipment receptacle																								
Signal contacts	male	female																								
Power contacts	female	male																								
Quadrax, coaxial and triaxial contacts	female	male																								
Inserts Arrangement Code (2 digits) In cavities A - B - D - E <i>More information: see pages 8 and 9. Coding: see page 15</i>																										
Polarization Code 00: Rack plug = polarizing key delivered unmounted Equipment receptacle = polarizing eyes delivered unmounted 01 to M6: Rack plug = location of polarizing key delivered mounted Equipment receptacle = location of polarizing eyes delivered mounted <i>Coding: see pages 16 and 17</i>																										
Connector Packaging Code 1st letter: signal and power contacts 2nd letter: twinax, triax, coaxial and quadrax contacts <i>Coding: see page 18</i>																										

For any other requirement, please consult us:



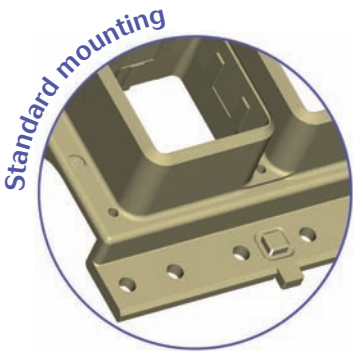
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Mounting Styles

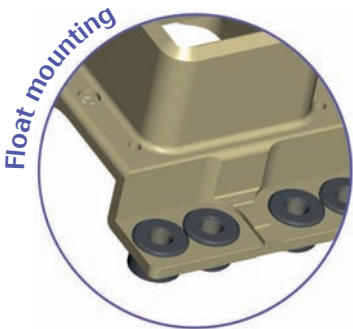
Standard mounting

- 05: Standard mounting shell size 1
- 13: Standard mounting shell size 2 & 3



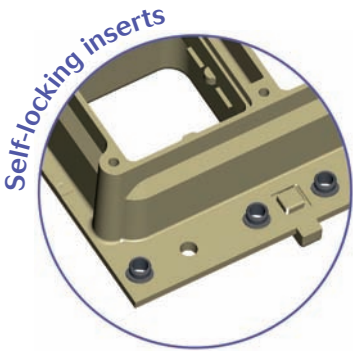
Float mounting

- FL: Float mounting, 6-32 eyelet (qty 4)
- FN: Float mounting, 6-32 self-locking threaded inserts (qty 4)
- FT: Float mounting, 4-40 (qty 4)
- FS: Float mounting, 4-40 self-locking threaded inserts (qty 4)



Self-locking inserts

- M3: 2 M3 self-locking inserts, shells size 2 & 3 (qty 2)
- N3: M3 self-locking inserts in all holes shells size 1, 2 & 3
- LN: 6-32 self-locking threaded inserts *
- SL: 4-40 self-locking threaded inserts *
- TL: 4-40 self-locking threaded inserts in all holes
- TN: 6-32 self-locking threaded inserts in all holes



*

Shells	Receptacle			Plug		
	1	2	3	1	2	3
Numbers of self-locking threaded inserts	4	6	10	4	6	8

For other mounting styles, please consult us.

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Inserts Layout Code

Inserts Layout Cavity C and F

Code	Shell Size	C cavity	F cavity
W2	1	5W2	-
W2	2 & 3	11C2	11C2
00	1 & 2	Dummy insert	-
01	3	Dummy insert	Dummy insert
02		11C2	Dummy insert
03		Dummy insert	11C2
07	1 & 2	Dummy insert (Alodine)	-
07	3	Dummy insert (Alodine)	Dummy insert (Alodine)
08	2 & 3	Dummy insert (Nickel)	Dummy insert (Nickel)
34	2	34 pts	-
34	3	34 pts	34 pts
38	1	40 pts	-
A1	2	85 pts	-
A2	3	11C2	Empty
A3		11C2	Dummy insert
A6		85 pts	85 pts
A8		85 pts	Dummy insert
K1		100 pts	100 pts
K2		11C2	100 pts
K3		100 pts	11C2
K4	2	Empty	-
K4	3	Empty	Empty
K5	2	100 pts	-
Q1	2 & 3	68Q2	68Q2
Q2	3	100 pts	68Q2
Q3	2 & 3	11Q2	11Q2
Q4		62Q2	62Q2
Q6		Q6	Q6
Q8	3	68Q2	85 pts
Q9	2 & 3	20Q4	20Q4
QA	3	34 pts	Q6
R1		11Q2	68Q2
R2		11Q2	100 pts
R3		11Q2	Empty
R4		68Q2	11Q2
T8	2 & 3	20T4	20T4
T9		62T2	62T2

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Inserts Layout Cavity A, B, D and E

Code	Shell Size	A cavity	B cavity	D cavity	E cavity
00	1	60 pts	60 pts	-	-
00	2 & 3	150 pts	150 pts	150 pts	150 pts
01		71 pts	71 pts	71 pts	71 pts
02	2	150 pts	71 pts	-	-
03		71 pts	150 pts	-	-
04		Empty	71 pts	-	-
05	3	C2	C2	Empty	150 pts
07	2	Dummy insert	71 pts	-	-
08	3	71 pts	71 pts	71 pts	71 pts
09		150 pts	150 pts	150 pts	71 pts
A1*	2 & 3	71 pts	71 pts	71 pts	71 pts
A2*	2	150 pts	71 pts	-	-
A3*		71 pts	150 pts	-	-
E1	1 & 2	Empty	Empty	-	-
E2	2	150 pts	Empty	-	-
E3		Empty	150 pts	-	-
E5		Empty	28 pts	-	-
E6	3	C2	71 pts rev.	-	-
E7		C2	C2	C2	150 pts
F2	2	150 pts	Wave guide	-	-
F3		Wave guide	150 pts	-	-
F5	2 & 3	22 Elio	22 Elio	22 Elio	22 Elio
H1	2	28 pts	28 pts	-	-
H2		150 pts	28 pts	-	-
H3		28 pts	150 pts	-	-
H4		71 pts	28 pts	-	-
H5		28 pts	Dummy insert	-	-
HA	3	150 pts	150 pts	150 pts	28 pts
HB		150 pts	150 pts	28 pts	150 pts
HC		150 pts	150 pts	28 pts	28 pts
HD		150 pts	28 pts	150 pts	150 pts
HE		150 pts	28 pts	150 pts	28 pts
HF		150 pts	28 pts	28 pts	150 pts
HG		150 pts	28 pts	28 pts	28 pts
HH		28 pts	150 pts	150 pts	150 pts
HJ		28 pts	150 pts	150 pts	28 pts
HK		28 pts	150 pts	28 pts	150 pts
HL		28 pts	150 pts	28 pts	28 pts
HM		28 pts	28 pts	150 pts	150 pts
HN		28 pts	28 pts	150 pts	28 pts
HP		28 pts	28 pts	28 pts	150 pts
HQ	2 & 3	28 pts	28 pts	28 pts	28 pts

Code	Shell Size	A cavity	B cavity	D cavity	E cavity
HR	3	28 pts	150 pts	28 pts	Dummy insert
HS		Empty	Empty	Dummy insert	150 pts
HV		150 pts	150 pts	Dummy insert	Dummy insert
HW		Dummy insert	150 pts	150 pts	150 pts
HX		Dummy insert	Dummy insert	Dummy insert	28 pts
HY		Dummy insert	Dummy insert	Dummy insert	Dummy insert
HZ		Dummy insert	150 pts	28 pts	28 pts
K1	2	126	150 pts	-	-
K2		126	126	-	-
K3		150 pts	126	-	-
L1	1 & 2	Dummy insert	Dummy insert	-	-
L2		150 pts	Dummy insert	-	-
L3		Dummy insert	150 pts	-	-
QA	2 & 3	Q11	Q11	Q11	Q11
QB		150 pts	Q11	150 pts	Q11
QC	3	TCAS	TCAS	118Q2	118Q2
QD	2 & 3	Q11	Dummy insert	11Q2	Dummy insert
QE		Q11	150 pts	11Q2	150 pts
QF	2	Dummy insert	Q11	-	-
QG	3	150 pts	71 pts	150 pts	Q11
QH		Q11	Q11	150 pts	Q11
QJ	2 & 3	118Q2	118Q2	118Q2	118Q2
QK	3	Q11	Q11	Q11	150 pts
QL	2 & 3	Q10	150 pts	Q10	150 pts
QM	2	Dummy insert	118Q2	-	-
QN		71 pts	118Q2	-	-
QR	2 & 3	150 pts	118Q2	150 pts	118Q2
QS	3	150 pts	Q11	150 pts	Q11
QT		Q11	Q11	150 pts	150 pts
QU		Q11	150 pts	150 pts	150 pts
QV	2	Q11	Empty	-	-
QW	3	24 pts	Q10	60 pts	Q10
QX		Empty	150 pts	Empty	Q11
T1	2	60 pts	60 pts	-	-
T2		150 pts	TCAS	-	-
T3		TCAS	TCAS	-	-
T4		TCAS	150 pts	-	-
T5		150 pts	TCAS	-	-
T6	3	TCAS	TCAS	150 pts	150 pts
T7	2	C12T6	150 pts	-	-
T8		TCAS	118Q2	-	-
T9		TCAS	118T2	-	-

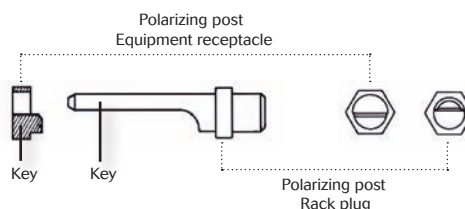
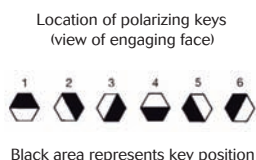
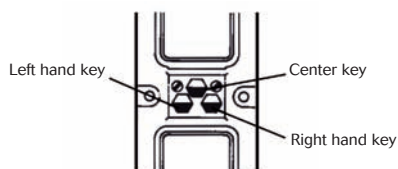
* with coxial body assembly

Arinc 600 series



Polarization

Polarization Code



Code number	Receptacle Shell			Plug shell		
	Left key	Center key	Right key	Left post	Center post	Right post
00	-	-	-	-	-	-
01	4	4	4	1	1	1
02	4	4	3	2	1	1
03	4	4	2	3	1	1
04	4	4	1	4	1	1
05	4	4	6	5	1	1
06	4	4	5	6	1	1
07	5	4	4	1	1	6
08	5	4	3	2	1	6
09	5	4	2	3	1	6
10	5	4	1	4	1	6
11	5	4	6	5	1	6
12	5	4	5	6	1	6
13	6	4	4	1	1	5
14	6	4	3	2	1	5
15	6	4	2	3	1	5
16	6	4	1	4	1	5
17	6	4	6	5	1	5
18	6	4	5	6	1	5
19	1	4	4	1	1	4
20	1	4	3	2	1	4
21	1	4	2	3	1	4
22	1	4	1	4	1	4
23	1	4	6	5	1	4
24	1	4	5	6	1	4
25	2	4	4	1	1	3
26	2	4	3	2	1	3
27	2	4	2	3	1	3
28	2	4	1	4	1	3
29	2	4	6	5	1	3
30	2	4	5	6	1	3
31	3	4	4	1	1	2
32	3	4	3	2	1	2
33	3	4	2	3	1	2
34	3	4	1	4	1	2
35	3	4	6	5	1	2
36	3	4	5	6	1	2
37	4	3	4	1	2	1
38	4	3	3	2	2	1
39	4	3	2	3	2	1
40	4	3	1	4	2	1
41	4	3	6	5	2	1
42	4	3	5	6	2	1
43	5	3	4	1	2	6
44	5	3	3	2	2	6
45	5	3	2	3	2	6
46	5	3	1	4	2	6
47	5	3	6	5	2	6
48	5	3	5	6	2	6
49	6	3	4	1	2	5

Code number	Receptacle Shell			Plug shell		
	Left key	Center key	Right key	Left post	Center post	Right post
50	6	3	3	2	2	5
51	6	3	2	3	2	5
52	6	3	1	4	2	5
53	6	3	6	5	2	5
54	6	3	5	6	2	5
55	1	3	4	1	2	4
56	1	3	3	2	2	4
57	1	3	2	3	2	4
58	1	3	1	4	2	4
59	1	3	6	5	2	4
60	1	3	5	6	2	4
61	2	3	4	1	2	3
62	2	3	3	2	2	3
63	2	3	2	3	2	3
64	2	3	1	4	2	3
65	2	3	6	5	2	3
66	2	3	5	6	2	3
67	3	3	4	1	2	2
68	3	3	3	2	2	2
69	3	3	2	3	2	2
70	3	3	1	4	2	2
71	3	3	6	5	2	2
72	3	3	5	6	2	2
73	4	2	4	1	3	1
74	4	2	3	2	3	1
75	4	2	2	3	3	1
76	4	2	1	4	3	1
77	4	2	6	5	3	1
78	4	2	5	6	3	1
79	5	2	4	1	3	6
80	5	2	3	2	3	6
81	5	2	2	3	3	6
82	5	2	1	4	3	6
83	5	2	6	5	3	6
84	5	2	5	6	3	6
85	6	2	4	1	3	5
86	6	2	3	2	3	5
87	6	2	2	3	3	5
88	6	2	1	4	3	5
89	6	2	6	5	3	5
90	6	2	5	6	3	5
91	1	2	4	1	3	4
92	1	2	3	2	3	4
93	1	2	2	3	3	4
94	1	2	1	4	3	4
95	1	2	6	5	3	4
96	1	2	5	6	3	4
97	2	2	4	1	3	3
98	2	2	3	2	3	3
99	2	2	2	3	3	3

Arinc 600 series



Polarization Code

Code number		Receptacle Shell			Plug shell		
Souriau	Norm	Left key	Center key	Right key	Left post	Center post	Right post
A0	100	2	2	1	4	3	3
A1	101	2	2	6	5	3	3
A2	102	2	2	5	6	3	3
A3	103	3	2	4	1	3	2
A4	104	3	2	3	2	3	2
A5	105	3	2	2	3	3	2
A6	106	3	2	1	4	3	2
A7	107	3	2	6	5	3	2
A8	108	3	2	5	6	3	2
A9	109	4	1	4	1	4	1
B0	110	4	1	3	2	4	1
B1	111	4	1	2	3	4	1
B2	112	4	1	1	4	4	1
B3	113	4	1	6	5	4	1
B4	114	4	1	5	6	4	1
B5	115	5	1	4	1	4	6
B6	116	5	1	3	2	4	6
B7	117	5	1	2	3	4	6
B8	118	5	1	1	4	4	6
B9	119	5	1	6	5	4	6
C0	120	5	1	5	6	4	6
C1	121	6	1	4	1	4	5
C2	122	6	1	3	2	4	5
C3	123	6	1	2	3	4	5
C4	124	6	1	1	4	4	5
C5	125	6	1	6	5	4	5
C6	126	6	1	5	6	4	5
C7	127	1	1	4	1	4	4
C8	128	1	1	3	2	4	4
C9	129	1	1	2	3	4	4
D0	130	1	1	1	4	4	4
D1	131	1	1	6	5	4	4
D2	132	1	1	5	6	4	4
D3	133	2	1	4	1	4	3
D4	134	2	1	3	2	4	3
D5	135	2	1	2	3	4	3
D6	136	2	1	1	4	4	3
D7	137	2	1	6	5	4	3
D8	138	2	1	5	6	4	3
D9	139	3	1	4	1	4	2
E0	140	3	1	3	2	4	2
E1	141	3	1	2	3	4	2
E2	142	3	1	1	4	4	2
E3	143	3	1	6	5	4	2
E4	144	3	1	5	6	4	2
E5	145	4	6	4	1	5	1
E6	146	4	6	3	2	5	1
E7	147	4	6	2	3	5	1
E8	148	4	6	1	4	5	1
E9	149	4	6	6	5	5	1
F0	150	4	6	5	6	5	1
F1	151	5	6	4	1	5	6
F2	152	5	6	3	2	5	6
F3	153	5	6	2	3	5	6
F4	154	5	6	1	4	5	6
F5	155	5	6	6	5	5	6
F6	156	5	6	5	6	5	6
F7	157	6	6	4	1	5	5

Code number		Receptacle Shell			Plug shell		
Souriau	Norm	Left key	Center key	Right key	Left post	Center post	Right post
F8	158	6	6	3	2	5	5
F9	159	6	6	2	3	5	5
G0	160	6	6	1	4	5	5
G1	161	6	6	6	5	5	5
G2	162	6	6	5	6	5	5
G3	163	1	6	4	1	5	4
G4	164	1	6	3	2	5	4
G5	165	1	6	2	3	5	4
G6	166	1	6	1	4	5	4
G7	167	1	6	6	5	5	4
G8	168	1	6	5	6	5	4
G9	169	2	6	4	1	5	3
H0	170	2	6	3	2	5	3
H1	171	2	6	2	3	5	3
H2	172	2	6	1	4	5	3
H3	173	2	6	6	5	5	3
H4	174	2	6	5	6	5	3
H5	175	3	6	4	1	5	2
H6	176	3	6	3	2	5	2
H7	177	3	6	2	3	5	2
H8	178	3	6	1	4	5	2
H9	179	3	6	6	5	5	2
J0	180	3	6	5	6	5	2
J1	181	4	5	4	1	6	1
J2	182	4	5	3	2	6	1
J3	183	4	5	2	3	6	1
J4	184	4	5	1	4	6	1
J5	185	4	5	6	5	6	1
J6	186	4	5	5	6	6	1
J7	187	5	5	4	1	6	6
J8	188	5	5	3	2	6	6
J9	189	5	5	2	3	6	6
K0	190	5	5	1	4	6	6
K1	191	5	5	6	5	6	6
K2	192	5	5	5	6	6	6
K3	193	6	5	4	1	6	5
K4	194	6	5	3	2	6	5
K5	195	6	5	2	3	6	5
K6	196	6	5	1	4	6	5
K7	197	6	5	6	5	6	5
K8	198	6	5	5	6	6	5
K9	199	1	5	4	1	6	4
L0	200	1	5	3	2	6	4
L1	201	1	5	2	3	6	4
L2	202	1	5	1	4	6	4
L3	203	1	5	6	5	6	4
L4	204	1	5	5	6	6	4
L5	205	2	5	4	1	6	3
L6	206	2	5	3	2	6	3
L7	207	2	5	2	3	6	3
L8	208	2	5	1	4	6	3
L9	209	2	5	6	5	6	3
M0	210	2	5	5	6	6	3
M1	211	3	5	4	1	6	2
M2	212	3	5	3	2	6	2
M3	213	3	5	2	3	6	2
M4	214	3	5	1	4	6	2
M5	215	3	5	6	5	6	2
M6	216	3	5	5	6	6	2

Arinc 600 series



Packaging

Packaging Code

1st Letter: Delivery conditions of Signal and Power Contacts

A	Connector delivered with unmounted crimped signal and power contacts.	For rear release plug & receptacle.
B	Connector delivered only with unmounted crimped signal contacts.	-
C	Connector delivered with mounted wire wrap L=12.7 mm signal contacts and without power contact.	-
D	Connector delivered with unmounted wire wrap L=9.52 mm signal contacts and crimped power contacts.	-
E	Connector delivered with mounted PC Tail L=6.35 mm signal contacts and unmounted power crimped contacts.	For PC Tail gold plated only. See code 3 for tin plated.
G	Connector delivered with mounted gold plated PC Tail L=3.81 mm signal contacts and without power contact.	-
H	Connector delivered with mounted tin plated PC Tail L=6.35 mm signal and power contacts.	For PC Tail tin plated only. See code Y for gold plated.
I	Connector delivered with mounted PC Tail L=3.81 mm signal contacts and unmounted crimped power contacts.	-
L	Connector delivered without signal and power contact.	Never use code LN. If no contact, put nothing.
N	Connector delivered with only unmounted crimped power contacts.	-
P	Connector delivered with mounted PC Tail L=9.52 mm signal contacts and unmounted crimped power contacts.	-
R	Connector delivered with mounted gold plated PC Tail L=9.52 mm signal contacts and without power contact.	-
T	Connector delivered with mounted wire wrap L=12.7 mm signal contacts and with unmounted power contacts.	-
U	Connector delivered with mounted wire wrap L=6.35 mm signal contacts and without power contact.	-
W	Connector delivered with unmounted front release wire wrap contacts (4 wrappings: 8660-540)	-
X	Connector delivered with mounted PC Tail L=12.7 mm signal contacts and without power contact.	For PC Tail gold plated only. See code 2 for tin plated.
Y	Connector supplied with mounted #22 PC Tail L=6.35 mm signal and power contacts.	For PC Tail gold plated only. See code H for tin plated.
1	Connector delivered with mounted PC Tail wire wrap L=9.52 mm signal contacts and with unmounted crimped power contacts.	-
2	Connector delivered with mounted tin plated PC Tail L=12.7 mm signal contacts and without power contact.	For PC Tail tin plated only. See code X for gold plated.
3	Connector delivered with mounted tin plated PC Tail L=6.35 mm signal contacts and with unmounted crimped power contacts.	For PC Tail tin plated only. See code E for gold plated.
4	Connector delivered with tin plated PC Tail L=12.7 mm signal and power contacts.	-
5	Connector delivered without signal contacts and with tin plated PC Tail L=6.35 mm power contacts.	-

2nd Letter: Delivery conditions of #5 Coax and #1 Coax contacts, and #8 Quadrax contacts.

A	Connector delivered with #5 coax for RG 58 C/U cable and #1 coax for RG 165/U and RG 225/U cable (coaxial body and termination kit).
B	Connector delivered with #1 coax for RG 141A/U, RG 142 and KX23 cable. Delivered unmounted.
C	Connector delivered with #1 coax for UT 141 and RG 402B/U cable. Delivered unmounted.
D	Connector delivered with #5 coax for 5021K1011 cable.
E	Connector delivered with #1 coax for RG 393/U cable.
F	Connector delivered with #5 coax for 5021K1011 cable and with #1 coax for RG 393/U cable. Delivered unmounted.
G	Connector delivered with Bus contacts for F2709/2 cable. Delivered unmounted.
H	Connector delivered without coax contact and with #5 dummy contacts.
I	Connector delivered without coax contact and with mounted #5 and #12 cavity reducer.
J	Connector delivered with #5 coax for RG 316 cable.
K	Connector delivered with #5 coax for KX23 cable.
L	Connector delivered with unmounted 90° #1 coax contacts for UT 141 and RG 402B/U cable.
M	Connector delivered with unmounted sealed #5 coax for RG 58C/U cable.
N	Connector delivered without coax or quadrax contact.
Q	Connector delivered with #8 quadrax contacts: FH type for tin plated PC Tail quadrax contacts, and FG type for crimped quadrax contacts.
S	Connector delivered with TCAS #1 coax.

Packaging code not applicable to connectors where no contacts are specified.
Do not use the suffix LN together.
For other code packaging, please consult us.

A full-page sheet of white graph paper with a light gray grid. The grid consists of small squares, approximately 10 units wide by 10 units high. The top-left corner of the page has rounded corners.

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Arinc 600 series



Contacts Part Numbers

Crimp Contacts

Signal contacts

Contact size	For rack plug: rear release			For equipment receptacle: rear release		
	Contact type	Part number	Profile and color code	Contact type	Part number	Profile and color code
#22 Standard	Pin	8660 - 202	 Green Orange	Socket	8660 - 206	 Orange
#22 Alumel		8660 - 209	 Black Green Orange		8660 - 211	 Orange Green Black
#22 Chromel		8660 - 208	 Yellow Green Orange		8660 - 210	 Orange Green Yellow
#22 Constantan		8660 - 2029	 Red Green Orange		8660 - 2034	 Orange Green Red

Power contacts

Contact size	For rack plug: rear release			For equipment receptacle: rear release		
	Contact type	Part number	Profile and color code	Contact type	Part number	Profile and color code
#20 Power	Socket	8660 - 248	 Orange Red	Pin	8660 - 230	 Red Orange
#16 Power		8660 - 249	 Orange Blue		8660 - 233	 Blue Orange
#16 Power Small barrel		8660 - 2575	 Orange		8660 - 1048	 Orange
#12 Power		8660 - 250	 Orange Yellow		8660 - 236	 Orange Yellow
#12 Power Small barrel		8660 - 257	 Orange		8660 - 1049	 Orange

Wire data for crimp contacts

Contact size	Cables		Ø over insulation (in mm)	
	mm²	AWG	min	max
#22	0.15 to 0.38	26 - 24 - 22	0.70	1.35
#20	0.21 to 0.60	24 - 22 - 20	1.02	1.80
#16	0.60 to 1.34	20 - 18 - 16	1.73	2.60
#16 Small barrel	0.21 to 0.93	24 - 22 - 20 - 18	1.73	2.60
#12	1.91 to 3.18	14 - 12	2.48	3.40
#12 Small barrel	0.21 to 0.93	24 - 22 - 20 - 18	2.48	3.40

Arinc 600 series



Crimp Contacts

Triaxial contacts

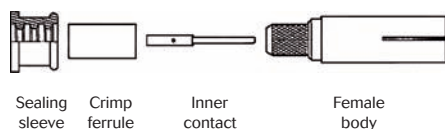
Contact size	Class	For rack plug: Female contact	For equipment receptacle: Male contact	Cable
		Part number	Part number	
#8 triaxial	Sealed	8667D03 - 08R52A01 Included boot	8667D02 - 08R52A01 Included boot	EN3375 - 004 MIL-C-17176
	Unsealed	8667D03 - 08R02A01	8667D02 - 08R02A01	

Coaxial contacts

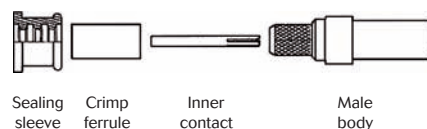
Contact size	Class	For rack plug: Female contact	For equipment receptacle: Male contact	Cable
		Part number	Part number	
#5 Coaxial*	Sealed	8660 - 2485	8660 - 2480	RG 58 C / U RG 142 B / U RG 141 A / U NSA 935359 WB
	Unsealed	8660 - 2285	8660 - 2280	
	Sealed	8660 - 2486	8660 - 2481	RG 174 A / U RG 188 A / U
	Unsealed	8660 - 2286	8660 - 2281	
	Sealed	8660 - 2487	8660 - 2482	RG 233 / U RG 400 BU KX 23
	Unsealed	8660 - 2287	8660 - 2282	
	Sealed	8660 - 2488	8660 - 2483	RG 178 B / U RG 196 A / U RG 316 / U KX 21 A KX 22 A
	Unsealed	8660 - 2288	8660 - 2283	
	Sealed	8660 - 2489	8660 - 2484	RG 180 B / U RG 195 A / U
	Unsealed	8660 - 2289	8660 - 2284	
	Sealed	8660 - 2298E	8660 - 2294	5021 K 1011
	Unsealed	8660 - 2498E	8660 - 2494	

* Sealing sleeve supplied for sealed connectors

For rack plug: Female contact



For equipment receptacle: Male contact



Arinc 600 series

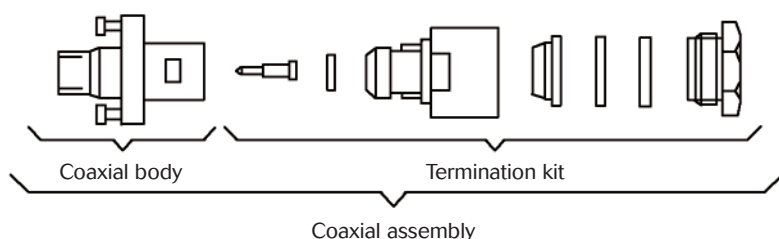


Crimp Contacts

Coaxial contact

Contact size	Class	For rack plug: Female contact			For equipment receptacle: Male contact			Cable
		Coaxial	Termination kit	Coaxial assembly	Coaxial	Termination kit	Coaxial assembly	
#1 Coaxial	Sealed	8660 - 2277	8660 - 2587	8660 - 2296	8660 - 2272	8660 - 2581	8660 - 2251	RG 141 A / U RG 142 B / U KX 23
	Unsealed	8660 - 2278		8660 - 2261	8660 - 2274		8660 - 2241	
	Sealed	-	-	-	8660 - 2272	8660 - 2582	8660 - 2252	UT141
	Unsealed				8660 - 2274		8660 - 2242	
	Sealed	8660 - 2277	8660 - 2580	8660 - 2295	8660 - 2272	8660 - 2583	8660 - 2250	RG 165 / U RG 214 / U RG 225 / U
	Unsealed	8660 - 2278		8660 - 2260	8660 - 2274		8660 - 2240	
	Sealed	8660 - 2277	8660 - 2585	8660 - 2299	8660 - 2272	8660 - 2588	8660 - 2254	RG 393 / U
	Unsealed	8660 - 2278		8660 - 2263	8660 - 2274		8660 - 2244	
	Sealed	8660 - 2277	8660 - 2237	8660 - 2311	8660 - 2272	8660 - 2236	8660 - 2313	Fileca 1703 / 3 Filotex50MT KT
	Unsealed	8660 - 2278		8660 - 2259	8660 - 2274		8660 - 2314	
	Unsealed	8660 - 2278	8660 - 2341	8660 - 2141	-	-	-	RG 400 / BU

Coaxial assembly example



TCAS unsealed insert

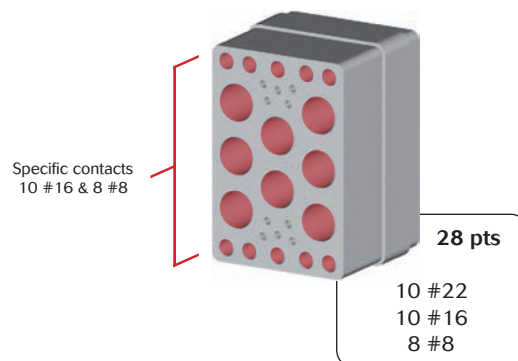
Contact size	Shell style	For rack plug: Female contact		Cable
		Part number	Profile	
#1 Coaxial	Plug	8660 - D21 - 100 - 01 A / 05		FILOTEX E0406WD FILOTEX 50MFCFB
	Receptacle	8660 - 6136		Output SMA

Arinc 600 series



Crimp Contacts

Specific contacts for 28 pts insert



#8 Triaxial contact

Contact size	Class	For rack plug: Female contact		For equipment receptacle: Male contact		Cable
		Part number	Profile	Part number	Profile	
#8 triaxial	Sealed	8599 - 5220 Included boot		8599 - 5210 Included boot		Mil - C17176 - 00002
	Unsealed	8599 - 0998		8599 - 0988		

#16 Power rear release

Contact size	Contact type	Part numbers without colour code	MIL - DTL - 38999 contacts	
			Part number	Profile and colour code
#16 Power	Pin	8599 - 0704 MJ	M39029 / 58 364	
	Socket	8599 - 0708	M39029 / 56 352	

#16 Dummy contacts (unsealed version)

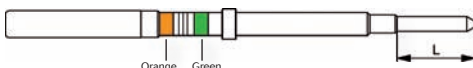
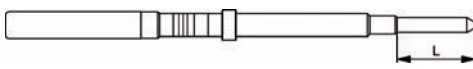
#16 (38999)	8660 - 3138 for plug	Blue
	8660 - 3139 for receptacle	

Arinc 600 series

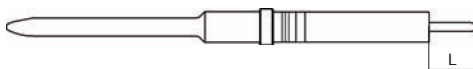
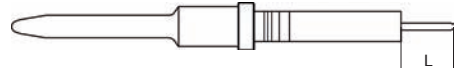


PC Tail Contacts

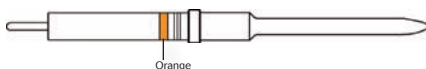
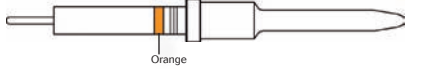
For equipment receptacle: female signal contacts - front release

Contact size	Contact type	Part number	L = Length spill (mm)	Ø spill (mm)	Profile
#22	Gold plated	8660 - 550	3.81	0.60 min 0.67 max	
		8660 - 555	6.35		
		8660 - 560	9.52		
		8660 - 565	12.7		
	Tin plated	8660 - C23 - 22V - 01A/06	3.81		
		8660 - C23 - 22V - 02A/06	6.35		
		8660 - C23 - 22V - 03A/06	9.52		
		8660 - C23 - 22V - 04A/06	12.7		

For equipment receptacle: male power contacts - front release

Contact size	Contact type	Part number	L = Length spill (mm)	Ø spill (mm)	Profile
#20	Gold plated	8660 - 420 - 200 - 04AMJ	3.81	0.81 min 0.88 max	
		8660 - 420 - 200 - 01AMJ	6.35		
		8660 - 420 - 200 - 02AMJ	9.52		
		8660 - 420 - 200 - 03AMJ	12.7		
	Tin plated	8660 - 420 - 200 - 04A06	3.81		
		8660 - 420 - 200 - 01A06	6.35		
		8660 - 420 - 200 - 02A06	9.52		
		8660 - 420 - 200 - 03A06	12.7		
#16	Gold plated	8660 - 420 - 160 - 04AMJ	3.81	1.27 min 1.33 max	
		8660 - 420 - 160 - 01AMJ	6.35		
		8660 - 420 - 160 - 02AMJ	9.52		
		8660 - 420 - 160 - 03AMJ	12.7		
	Tin plated	8660 - 420 - 160 - 04A06	3.81		
		8660 - 420 - 160 - 01A06	6.35		
		8660 - 420 - 160 - 02A06	9.52		
		8660 - 420 - 160 - 03A06	12.7		
#12	Gold plated	8660 - 420 - 120 - 04AMJ	3.81	2.05 min 2.11 max	
		8660 - 420 - 120 - 01AMJ	6.35		
		8660 - 420 - 120 - 02AMJ	9.52		
		8660 - 420 - 120 - 03AMJ	12.7		
	Tin plated	8660 - 420 - 120 - 04A06	3.81		
		8660 - 420 - 120 - 01A06	6.35		
		8660 - 420 - 120 - 02A06	9.52		
		8660 - 420 - 120 - 03A06	12.7		

For equipment receptacle: male power contacts - rear release

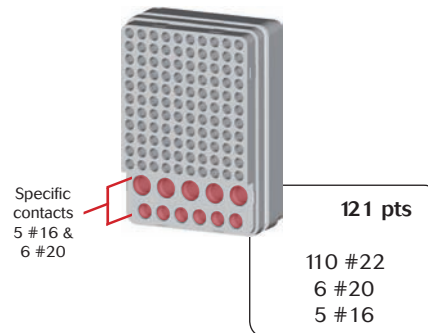
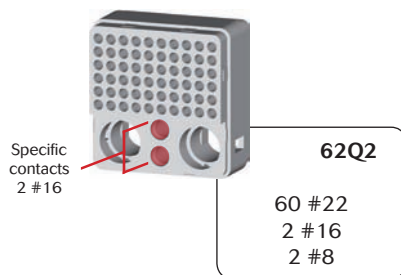
Contact size	Contact type	Part number	L = Length spill (mm)	Ø spill (mm)	Profile
#20	Gold plated	8660 - 543	2.98	0.81 min 0.88 max	
	Tin plated	8660 - 6148			
#16	Gold plated	8660 - 546	2.38	1.27 min 1.33 max	
	Tin plated	8660 - 6149			
#12	Gold plated	8660 - 549	2.98	2.05 min 2.11 max	
	Tin plated	8660 - 6150			

Arinc 600 series



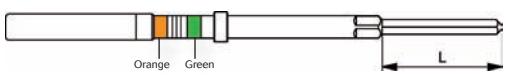
PC Tail Contacts

Specific contacts for 62Q2 & 121 pts inserts

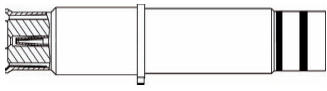


Contact Size	Contact type	Part number	L = Length spill (mm)	Ø spill (mm)	Profile
#20	Tin plated	8660 - 42020005A06	6.35	0.81 min 0.88 max	
#16	Tin plated	8660 - 42016005A06	6.35	1.27 min 1.33 max	

Wire Wrap Contacts - Front release

Contact Size	Contact type	Part number	L = Length spill (mm)	 mm	Profile
#22	Gold plated	8660 - 223	6.35	0.82 min 0.90 max	
		8660 - 224	9.52		
		8660 - 225	12.7		

Twinax Contacts

Contact size	Contact type	Part number	Cable	Profile
#8 twinax	Female (For Rack plug)	ETH2-1105A	ABS0386WF24	
		ETH2-1107A	ASNE0272TK22	
		ETH2-1103A	ASNE0272TK24	
		ETH2-1101A	ASNE0807WX26	
	Male (For equipment receptacle)	ETH2-1104A	ABS0386WF24	
		ETH2-1106A	ASNE0272TK22	
		ETH2-1102A	ASNE0272TK24	
		ETH2-1100A	ASNE0807WX26	

Arinc 600 series

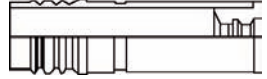


Triax Contacts

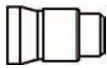
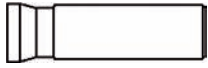
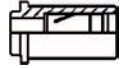
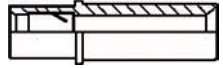
For equipment receptacle: front release

Contact size	Contact type	Part number	L = Length spill (mm)	Profile
#8 triax	Tin plated	8660 - 6046	6.35	

Quadrax Contacts

Contact size	Contact type	Part number	Version	Class	Release	Profile
#8 quadrax	Male	ETH1 - 1100A	Crimp	Unsealed	Rear	
	Female	ETH1 - 1101A				
	Male	ETH1 - 1110A	PC Tail L = 6.35 mm	Unsealed	Front	
		ETH1 - 1123A	Tinned PC tail L = 6.35 mm			
	-	8660 - 6053	Sealing boot	Sealed	-	

Cavity Reducers

	For equipment receptacle		For rack plug	
	Part number	Profile	Part number	Profile
From size 5 cavities to size 12 contacts	8660 - 343		8660 - 344	
From size 8 cavities to size 12 contacts	8660 - 537		8660 - 536	
From size 8 cavities to size 16 contacts (38999 type)	8660 - 3134		8660 - 3133	

used for rear release insert only

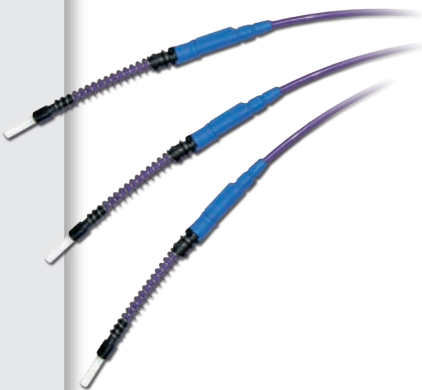
Arinc 600 series



Elio® Fiber Optic Contacts

Elio Contacts Ordering Information

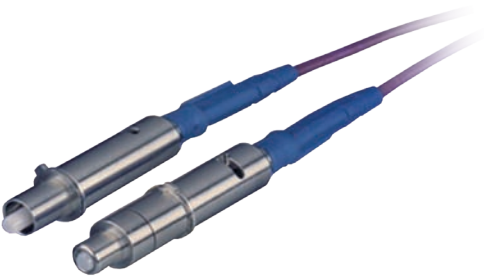
	Elio	09	N	G	L	A
Cable external diameter:						
09: 0.9 mm or cable wider than 1.9mm with 0.9mm jacket inside						
18: from 1.5mm to 1.9mm						
Contact sealing:						
W: waterproof (1.8mm +/- 0.1mm cable only)						
N: non sealed						
Fiber type:						
G: 50 or 62,5/125 µm						
E: 9/125 µm (PC ferrule)						
D: 100/140 µm						
Boot type:						
L: long boot						
S: short boot						
N: no boot (non sealed version only)						
Contact version index						



Elio AQ: Adaptor for Quadrax #8 Cavities

ELIO® AQ is an adaptor for the ELIO® contact to fit any size 8 Quadrax cavities.
Therefore, any layout including size 8 Quadrax cavities can be implemented with the ELIO® fiber optic contact.

Part number	Adaptor type	Profile
ELIO - AQOP Rear release	Male Insert	
ELIO - AQ1P Front release		
ELIO - AQOS Rear release	Female insert	

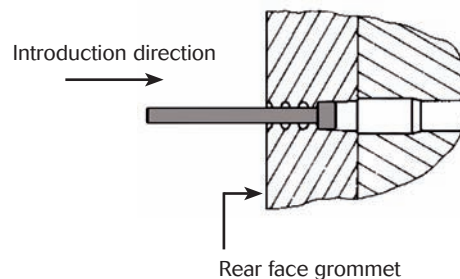


Arinc 600 series



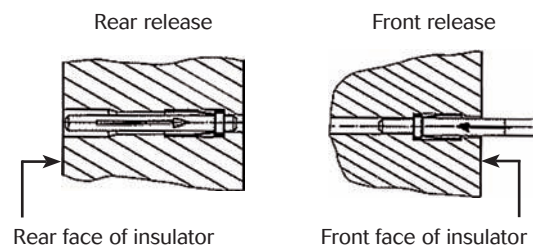
Filler Plug (sealed version)

Cavities size	Part number	Color
# 22	8660 - 212	Black
# 20	8522 - 389 A	Red
# 16	8522 - 390 A	Blue
# 12	8522 - 391A	Yellow
# 8	8660 - 3035	Red
# 5	8660 - 726	White



Dummy Contacts (unsealed version)

Cavity size	Part number	Color
#22 Rear release	8660 - 500	Black
#22 Front release	8660 - 499	Aluminium
#20	8660 - 501	Red
#16	8660 - 502	Blue
#12	8660 - 503	Yellow
#8	8660 - 3131 for plug	Red
	8660 - 3132 for receptacle	
#8 Quadrax Front release	8660 - 6045	Metal
#8 Rear release	8660 - 6108 for receptacle	
#5	8660 - 505 for plug	White
	8660 - 504 for receptacle	
#5 Front release	8660 - 942 for receptacle	Metal
#1 For TCAS insert	8660 - 6145 A for receptacle	White



Dummy Inserts

Shell Size	Cavity	Material	Part Number
1	A, B	Polyamide*	8660 - 31A - 100 - 01AAA
	C	Polyamide*	8660 - 31A - 100 - 02AAA
2 & 3	A, B, D, E	Polyamide*	8660 - 31A - 100 - 01AAA
		Alodine	8660 - 34A - 200 - 01AF3
		Nickel	8660 - 34A - 200 - 01ASW
	C, F	Polyamide*	8660 - 31A - 100 - 02AAA
		Alodine	8660 - 34A - 200 - 02AF3
		Nickel	8660 - 34A - 200 - 02ASW

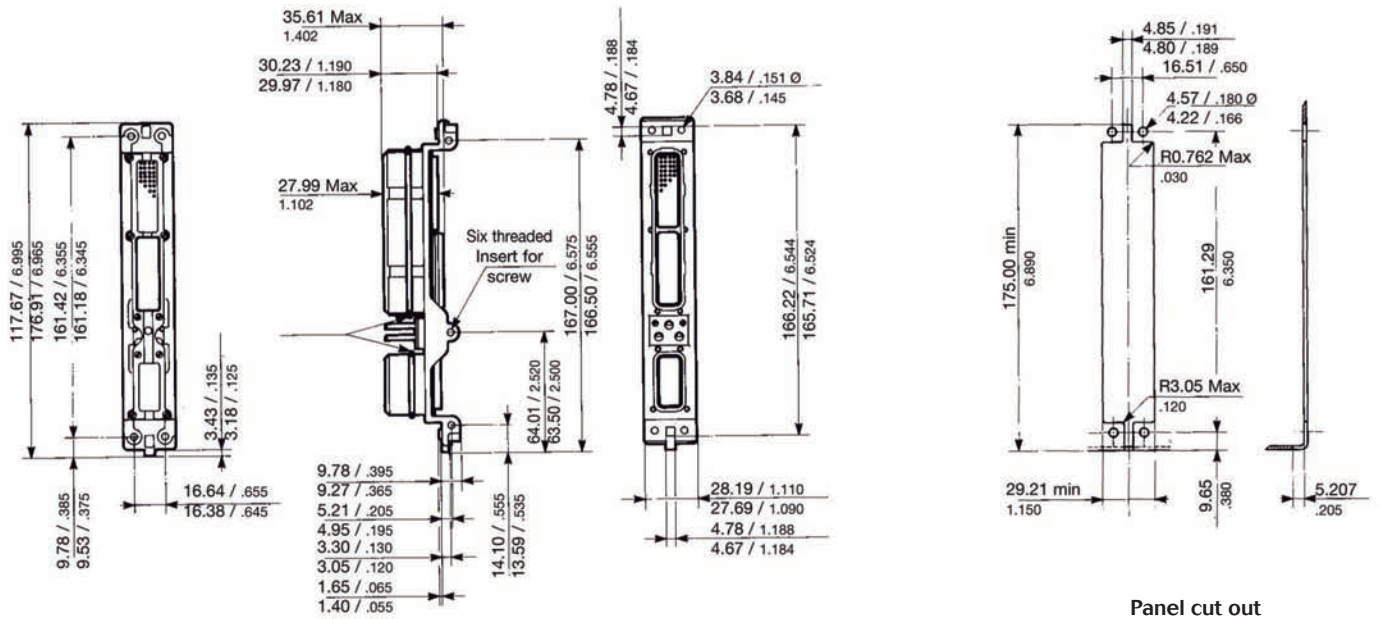
* Standard version

Arinc 600 series

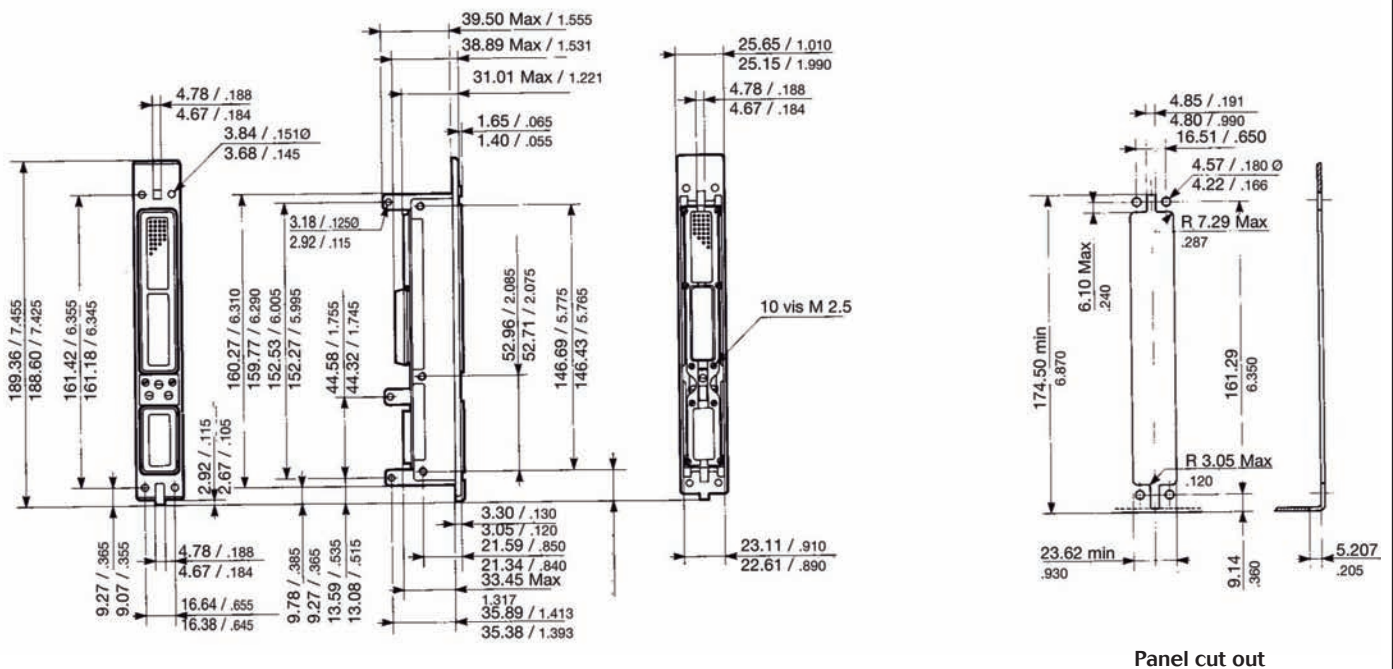


Dimensions Shell Size 1

Rack Plug (mm/inch)



Equipment Receptacle (mm/inch)

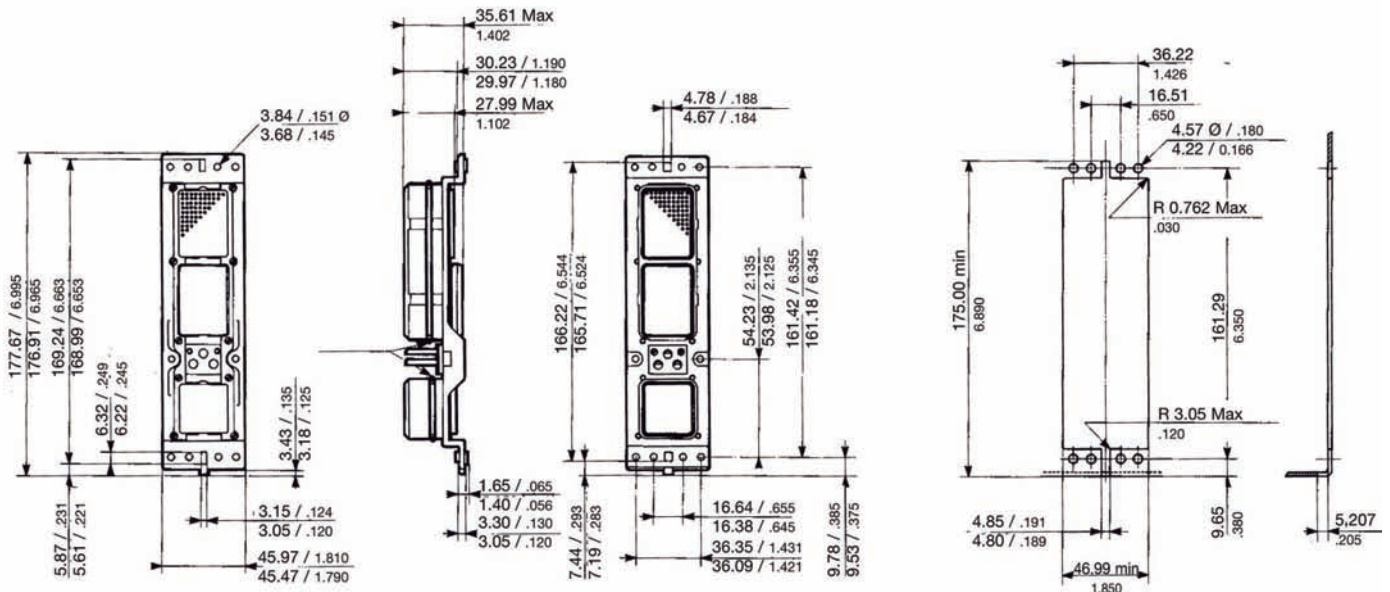


Arinc 600 series



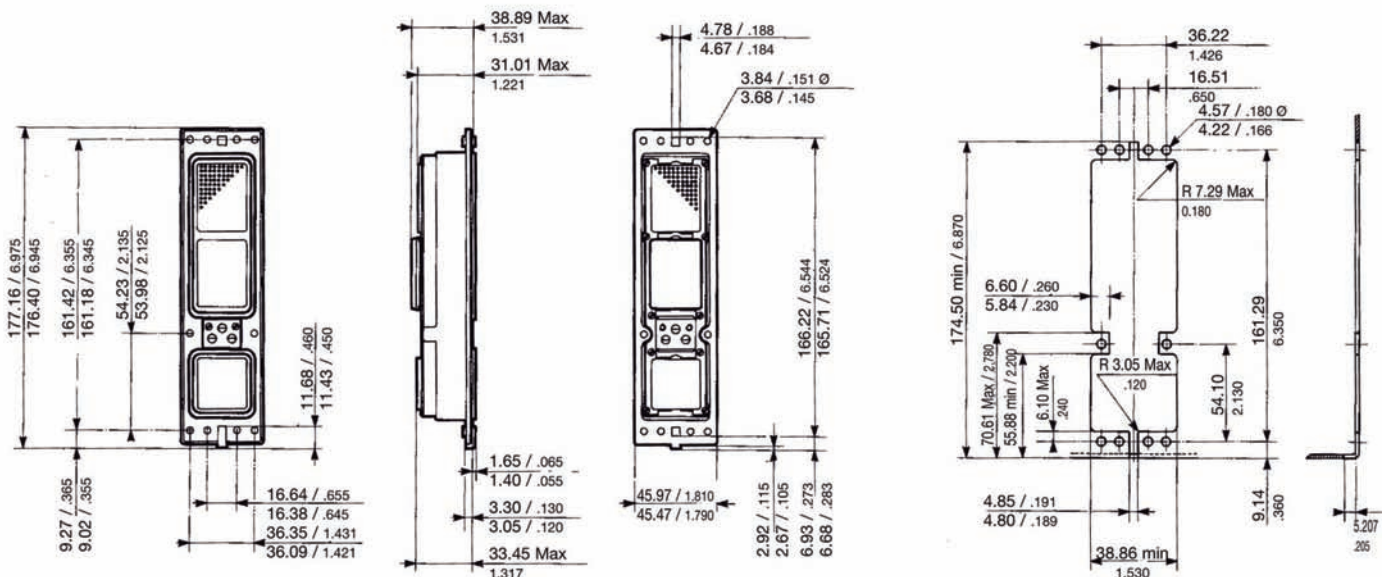
Dimensions Shell Size 2

Rack Plug (mm/inch)



Panel cut out

Equipment Receptacle (mm/inch)



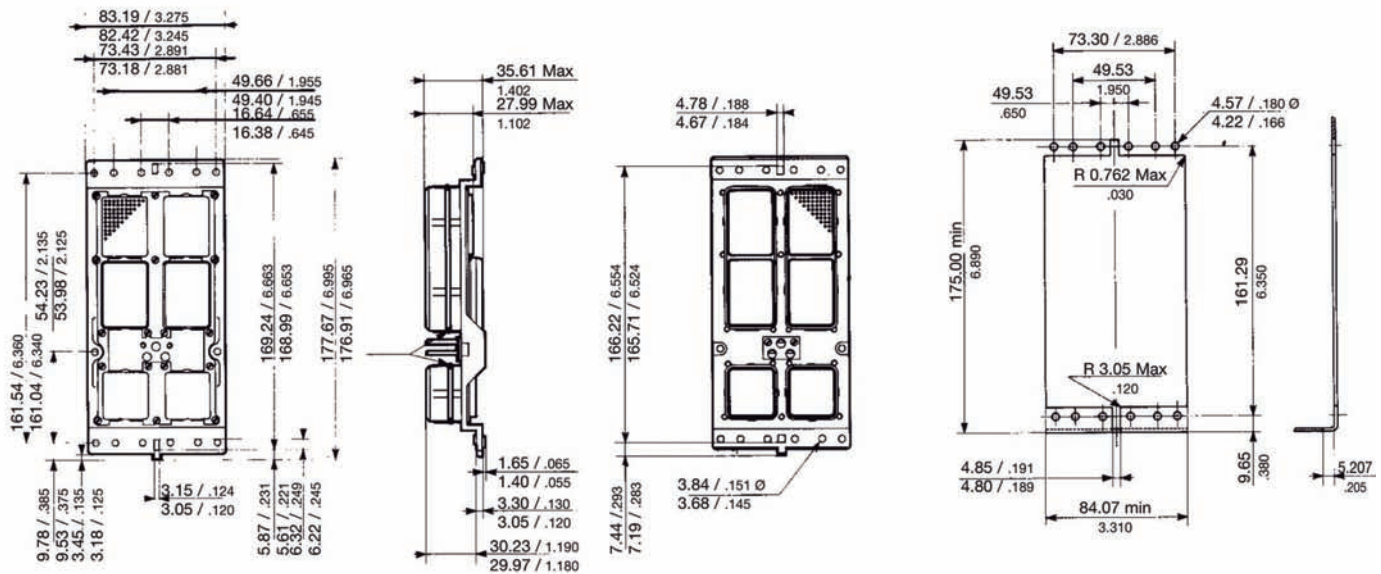
Panel cut out

Arinc 600 series



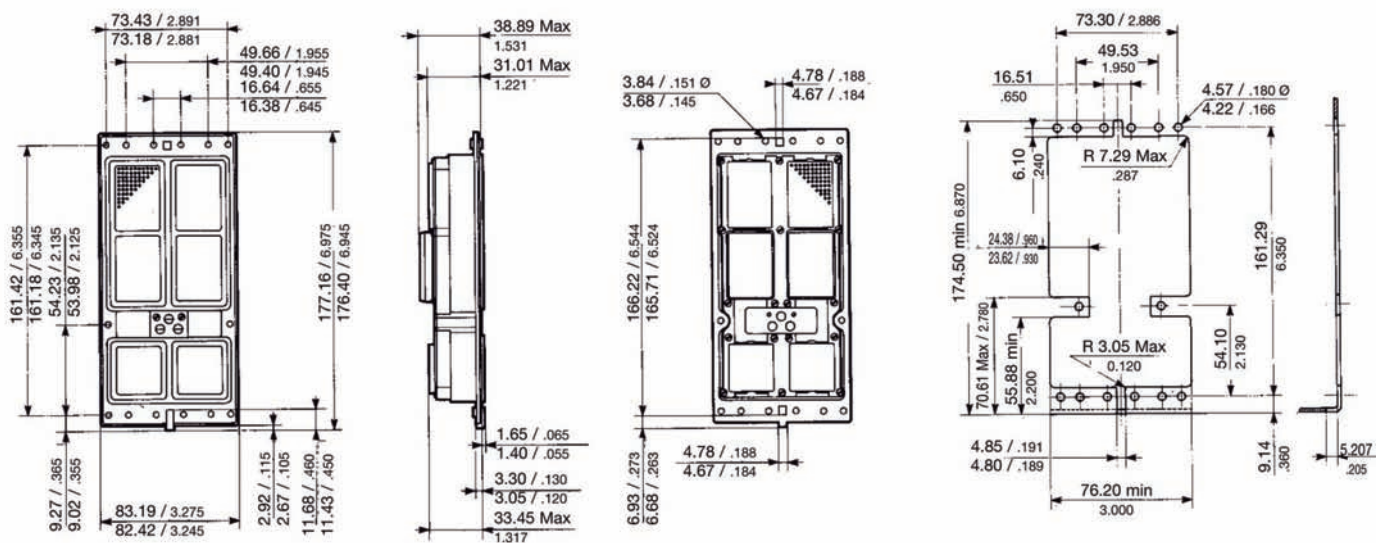
Dimensions Shell Size 3

Rack Plug (mm/inch)



Panel cut out

Equipment Receptacle (mm/inch)



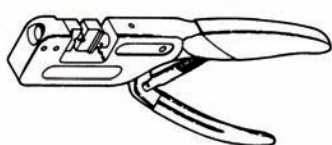
Panel cut out

Arinc 600 series



Tooling & Accessories

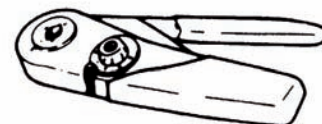
Crimping Tools



M22520 / 5 - 01



8365



8476 - 01

Sizes 22, 20, 16, 12 and 8 Quadrax Contacts

Contact size	Contact type	Pliers					Cables	
		M22520 / 5 - 01	8365 M22520 / 1 - 01		8476 - 01 M22520 / 2 - 01			
			P / N locator					
			Norm / Spec	Norm / Spec	Souriau	Norm / Spec	Souriau	mm²
#22	F & M	-	-	-	M22520 / 2 - 23	8660 - 216	0.15 to 0.38	26 - 24 - 22
#20	F & M	-	-	-	M22520 / 2 - 08	8476 - 08	0.21 to 0.60	24 - 22 - 20
#16	F & M	-	M22520 / 1 - 02	8365 - 02	-	-	0.60 to 1.34	20 - 18 - 16
#16 small barrel	F & M	-	M22520 / 1 - 02	8365 - 02	-	-	0.21 to 0.93	24 - 22 - 20 - 18
#12	F & M	-	M22520 / 1 - 02	8365 - 02	-	-	1.91 to 3.18	14 - 12
#12 small barrel	F & M	-	M22520 / 1 - 02	8365 - 02	-	-	0.21 to 0.93	24 - 22 - 20 - 18
#8 Quadrax	Outer	M22520 / 5 - 45 die set repere B	-	-	-	-	-	-
	Central	K709, setting number 5	-	-	-	-	-	-

Size 5 Coaxial Contacts

Contact part numbers		Pliers	
		Inner contact	Body (ferrule)
		8476 - 01 M22520 / 2 - 01	M22520 / 5 - 01
Sealed connector	Unsealed connector	locator	Hex dies
8660 - 2480 / 2485	8660 - 2280 / 2285	M22520 / 2 - 14	M22520/ 5 - 45B
8660 - 2481 / 2486	8660 - 2281 / 2286		M22520/ 5 - 37B
8660 - 2482 / 2487	8660 - 2282 / 2287		M22520/ 5 - 45B
8660 - 2483 / 2488	8660 - 2283 / 2288		M22520/ 5 - 37B
8660 - 2484 / 2489	8660 - 2284 / 2289		M22520/ 5 - 43B

Size 1 Coaxial Contacts: do not require assembly tooling.

Size 8 Triaxial Contacts: consult wiring instruction

TCAS Contact: 8660 - D21 - 100 - 01A / 05

Contact	Pliers		Cables
	M22520 / 1 - 01	M22520 / 5 - 01	
	P / N locator		
Inner contact	M22520 / 13 SEL - 8	-	FILOTEX E0406WD
External contact	-	M22520 / 5 - 61	FILOTEX 50MFCFB

Arinc 600 series



Insertion and Extraction Tools

Contact size	Release	Material	Part number		Insertion / Extraction tools		Note
			Spec	Souriau	Insertion	Extraction	
#22	Rear release	Metal	M81969 / 1 01	8660 - 160	Green	White	-
#20		Metal	M81969 / 1 02	8660 - 188	Red	White	-
#16		Plastic	M81969 / 14 03	8522 - 16	Blue	White	-
#12		Plastic	M81969 / 14 04	8522 - 12	Yellow	White	-
#5		Metal	M81969 / 28 01	8660 - 187	-	Yellow	Insertion = manual
#8	Front & rear release	Metal	-	8660 - 197	-	-	
#22 WW	Front release	Metal	-	8660 - 162	Red	White	-
PC Tail #22							-



8660 - 160



8660 - 187



8660 - 197

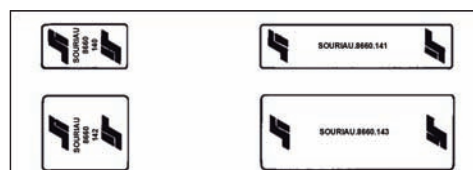
Covers

Standard covers are supplied with connector (may be supplied separately)

Plug Covers

Yellow color.

Shells	Designation	Part number
1	For power block	8660 - 140
	For signal block	8660 - 141
2 & 3	For power block	8660 - 142
	For signal block	8660 - 143



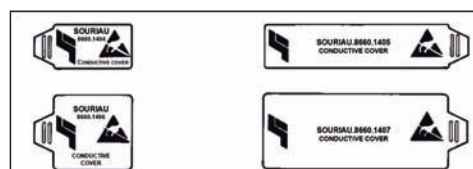
Antistatic Receptacle Covers

Black color.

These covers are designed to protect equipments against electrostatic discharge risks.

They are in self-extinguishing polyphenylene with graphite filler.

Shells	Designation	Part number
1	For power block	8660 - 1404
	For signal block	8660 - 1405
2 & 3	For power block	8660 - 1406
	For signal block	8660 - 1407



Arinc 600 series



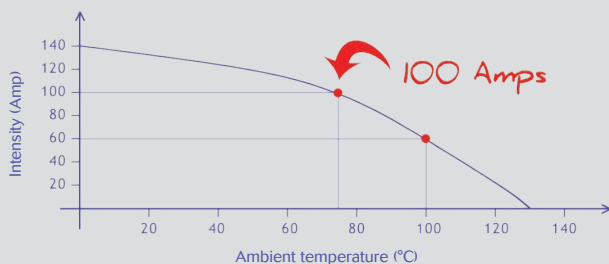
Products Range Extension

Power Contact



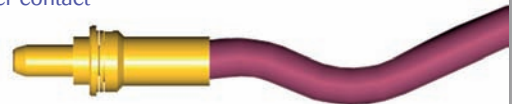
- . Up to 100 Amps at a temperature of 75°C
- . Integration of 38999 power contact within #8 cavities
- . Available in crimped contacts for plug and receptacle

Derating curve on Arinc 600 equipped with power #8 contacts

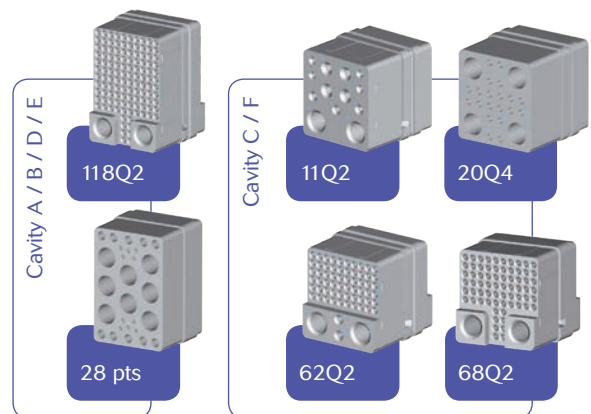


- . At 100 Amps, the allowed maximum ambient temperature is 75°C
- . At 60 Amps, the allowed maximum ambient temperature is 100°C

#8 Power contact



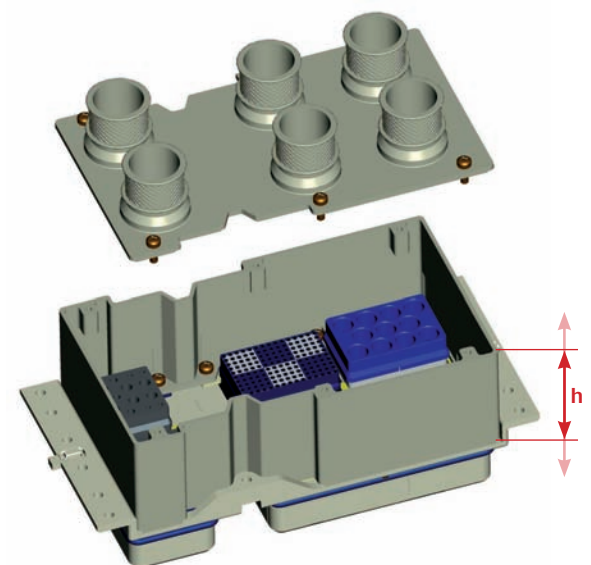
Integration inside Souriau wide range of #8 insert in both cavity A/B/D/E and cavity C/F



Backshells

EMI / RFI shielding solution for Arinc 600

- . Aluminium alloy with nickel plating for a better continuity
- . PTFE inner lining for cable protection
- . Intermediate plate
 - Height (h) customizable to adapt to your own cabling requirements
 - Integration of grommet for sealed version
- . Outing backshells customisation
 - Circular screw interface for MIL-DTL-38999 and EN2997 backshells
 - Bend it solution for direct cable connection: one interface less = better protection
 - Right angle orientation possibility



Arinc 600 series



Products Range Extension

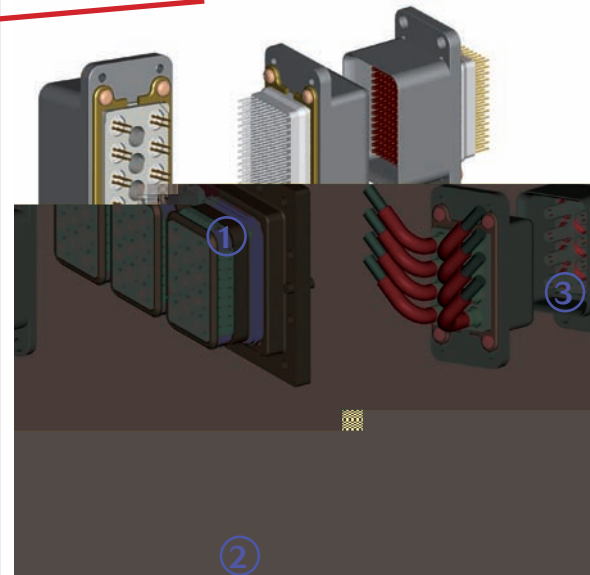
Custom Product

Souriau is offering a high development capability for your specific needs

- ① . **Specific monocavity**
 - available for any Souriau insulators (pictures: Q11 and 150pts layouts)
- ② . **Space saving solution**
 - With right angle cable orientator
 - 35mm outing length
- ③ . **Specific machined shells for customized needs**

Consult us:
contactmilaero@souriau.com

ON DEMAND



Grounding

Three solutions for shell continuity

- . **Ground spring: Best continuity performance**
 - Spring associated with a nickel plating plug
 - The fixing of the connector ensures the shell continuity
 - Available in shell sizes 2 & 3
 - Sealed and unsealed versions available
- . **Ground finger: Cost effective solution**
 - Connection is ensured by a cable on the equipment
 - Available in shell sizes 1, 2 & 3
 - Sealed and unsealed versions available
- . **Ground blade: Cost effective solution**
 - Enables continuity between plug and receptacle
 - Available in shell sizes 2 & 3
 - Sealed and unsealed versions available

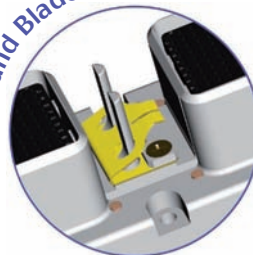
Ground Spring

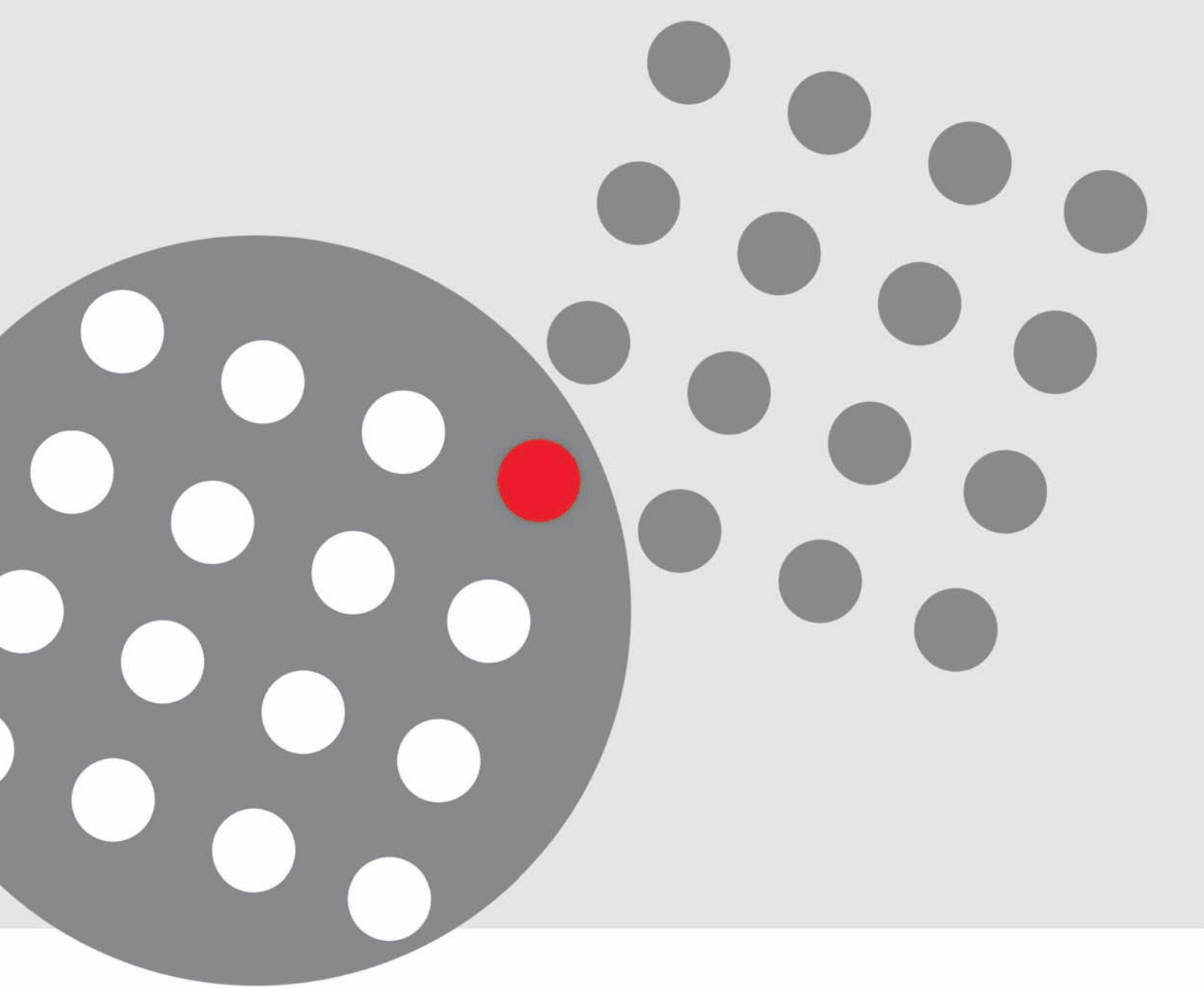


Ground Finger



Ground Blade





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