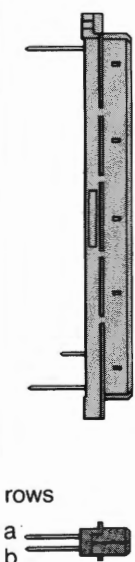
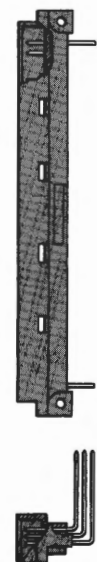
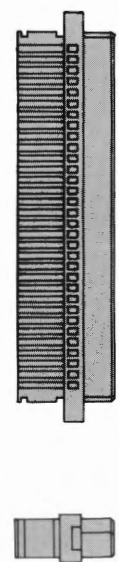
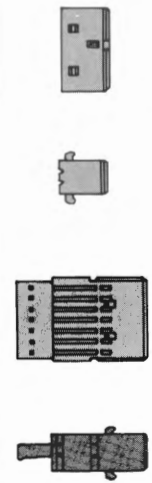
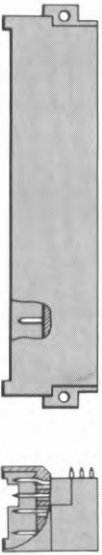
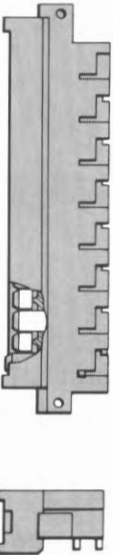
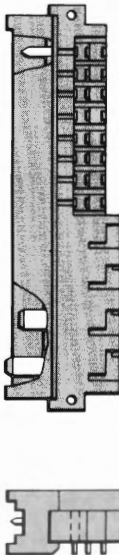


DIN 41612 connectors

DIN 41612 sub-series	series B	series C	series Q	series R	series C-IDC	modules
description	standard high density 2.54mm matrix	standard high density 2.54mm matrix	reverse high density 2.54mm matrix	reverse high density 2.54mm matrix	standard receptacle format 2.54mm matrix	max. 21 way on 2.54mm matrix
Number of rows	2	3	2	3	3	3
No. of contacts ¹⁾	32–64	32–64–96	32–64	32–64–96	64, 96	14, 21
Pitch of contacts	2.54mm	2.54mm	2.54mm	2.54mm	2.54mm	2.54mm
Contact rating 20°C	2A	2A	2A	2A	2A	2A
Test voltage	1kV	1kV	1kV	1kV	1kV	1kV
Insuln. resistance	≥ 10 ⁶ MΩ	≥ 10 ⁶ MΩ	≥ 10 ⁶ MΩ	≥ 10 ⁶ MΩ	≥ 10 ⁶ MΩ	≥ 10 ⁶ MΩ
Contact resistance	≤ 15mΩ	≤ 15mΩ	≤ 15mΩ	≤ 15mΩ	≤ 15mΩ	≤ 15mΩ
Contact plating	active zone	gold	gold	gold	gold	gold
	termination	tin/lead	tin/lead	tin/lead	tin/lead	tin/lead
termination						
solder (for wire)	■	■	■	■		■
straight	■	■	■	■		■
angled spill	■	■	■	■		
wire wrap	■	■	■	■		■
crimp						
faston®						
termipoint®						
IDC					■	■
1) other partially filled contact combinations can be supplied – please consult us for availability. ® “faston” and “termipoint” are registered trade names of AMP Inc.						

DIN 41612 connectors

series D	series E	series F	series G	series H15	series M	DIN 41612 sub-series
medium power 5.08mm pitch	medium power 5.08mm pitch	medium power 5.08mm pitch	medium power 5.08mm pitch	high power	mixed medium and high power	description
2	3	3	4	2	3/2	Number of rows
32	32–48	32–48	64	15	24/7	No. of contacts¹⁾
5.08mm	5.08mm	5.08mm	5.08mm	10.16mm	5.08/10.16mm	Pitch of contacts
5.5A	5.5A	5.5A	5.5A	12A	5.5A/15A	Contact rating 20°C
1kV	1kV	1.5kV	1.5kV	2.5kV	1.5/2.5kV	Test voltage
$\geq 10^5 \text{M}\Omega$	$\geq 10^5 \text{M}\Omega$	$\geq 10^5 \text{M}\Omega$	$\geq 10^5 \text{M}\Omega$	$\geq 10^5 \text{M}\Omega$	$\geq 10^5 \text{M}\Omega$	Insuln. resistance
$\leq 15 \text{m}\Omega$	$\leq 15 \text{m}\Omega$	$\leq 15 \text{m}\Omega$	$\leq 15 \text{m}\Omega$	$\leq 15 \text{m}\Omega$	$\leq 15 \text{m}\Omega/8 \text{m}\Omega$	Contact resistance
gold tin/lead	gold tin/lead	gold tin/lead	gold tin/lead	silver silver	gold/silver tin/lead/silver	active zone termination Contact plating
						termination
■	■	■	■	■	■	solder (for wire)
■	■	■	■		■/■	straight
■	■	■	■	■	■/■	angled spill
■	■	■	■		■	wire wrap
■	■	■	■	■		crimp
				■	■	faston®
■	■	■	■			termipoint®
						IDC
						1) other partially filled contact combinations can be supplied – please consult us for availability. ® “faston” and “termipoint” are registered trade names of AMP Inc.
25–27	25, 28–29	25, 30–33	34–35	36–37	38–39	page no. 5

characteristics

Souriau series 8609

Signal current
DIN 41612 series B, C, Q, R,
derived series HE11, C-IDC and
modules.

Souriau series 5159

Medium and High power
DIN 41612 Series D, E, F, G, and
H15 and derived M (mixed).

general characteristics

- insulator
- female contacts
 - plating – active zone
 - termination zone
- male contacts
 - plating – active zone
 - termination zone

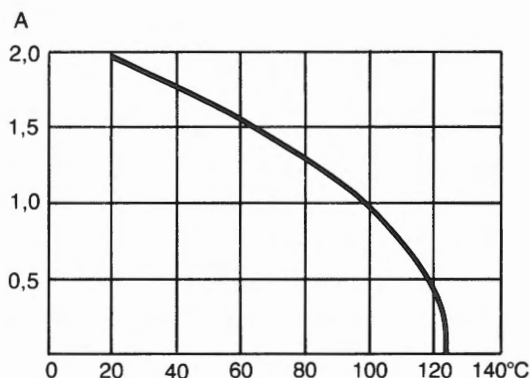
polyester (PBT)-UL 94 VO
phosphor bronze
gold over nickel
tin/lead over nickel (except rear plug up)
brass
gold over nickel
tin/lead over nickel (except rear plug up)

glass fibre filled polycarbonate*
brass
gold over nickel or silver over nickel
tin/lead
brass
gold over nickel or silver over nickel
tin/lead

*F-series: crimp – polyester, others available in
polyamide on request.

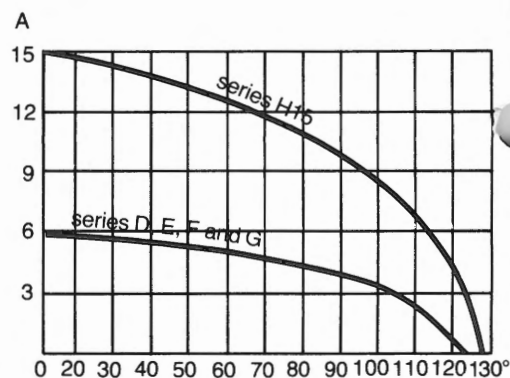
electrical characteristics

– current rating at 20°C



- insulation resistance
- contact resistance
- test voltage
 - (between contacts)
 - (between contact/earth)
- nominal working voltage

$\geq 1.10^6 M\Omega$
 $\leq 15 m\Omega$
1000V rms between contacts
1500V rms between contact and earth
330V ac/470V dc



$\geq 1.10^6 M\Omega$
 $\leq 15 m\Omega$
1000V rms (Series D/E),
1500V rms (Series F/G),
2500V rms (others),
1500V rms (Series D/E),
2500V rms and (others)
125V ac nominal

mechanical characteristics

- longitudinal pitch
- transverse pitch
- insertion/extraction force
 - 96 contacts
 - 64 contacts
 - 48 contacts
 - 32 contacts
- operating temperature
- endurance
- damp heat
- salt spray
- vibration
- security of electrical contact
- mechanical endurance
- solderability

2.54mm
2.54mm
 $\leq 90N, \geq 15N$
 $\leq 60N, \geq 10N$
 $\leq 30N, \geq 5N$
–65°C to +125°C
1000hrs at 85°C
56 days
96 hrs
10/2000Hz, 1.52mm displacement at 20g
and each 20g thereafter
 $\geq 1.8mm$
50/500 operations – see page 7
to DIN 40046, part 18
(male connector on heat dissipator)

5.08mm, 10.16mm staggered (series H15)
5.08mm, 6.5mm (series H15)
 $\leq 100N$
 $\leq 75N$
 $\leq 50N$
–55°C to +125°C
1000hrs at 70°C
56 days
industrial atmosphere according to DIN
41612, part 5
10/2000Hz, 1.52mm displacement at 20g
and each 20g thereafter
 $\geq 1.8mm$
50/500 operations – see page 7
to DIN 40046, part 18
(male connector on heat dissipator)

series B, C, Q, R and derived HE11 performance specification

indicated by thirteenth digit of
connector part number (see following
pages)
e.g.: series C, 96 contact receptacle—
8609.396.81.15 7■5.000.E1.

DIN 41612 connectors

performance spec. digit	international/national specs. complied with	performance	
		minimum number of mating/unmating ops.	environmental test
4	exceeds DIN 41612 class 3 HE11.01, HE12.01	400	—
5	DIN 41612 class 2 HE11.02, HE12.02, IEC 603-2	400	4 days industrial atmosphere
6	DIN 41612 class 1 IEC 603-2, BT222T	400	10 days industrial atmosphere
7	VG 95324, HE11.03, HE12.03	500	21 days industrial atmosphere (test)
8	BS 9525.F.0004, BT222 BS 9525.F.0017	500	high level industrial atmosphere (21 day test)

mounting detail

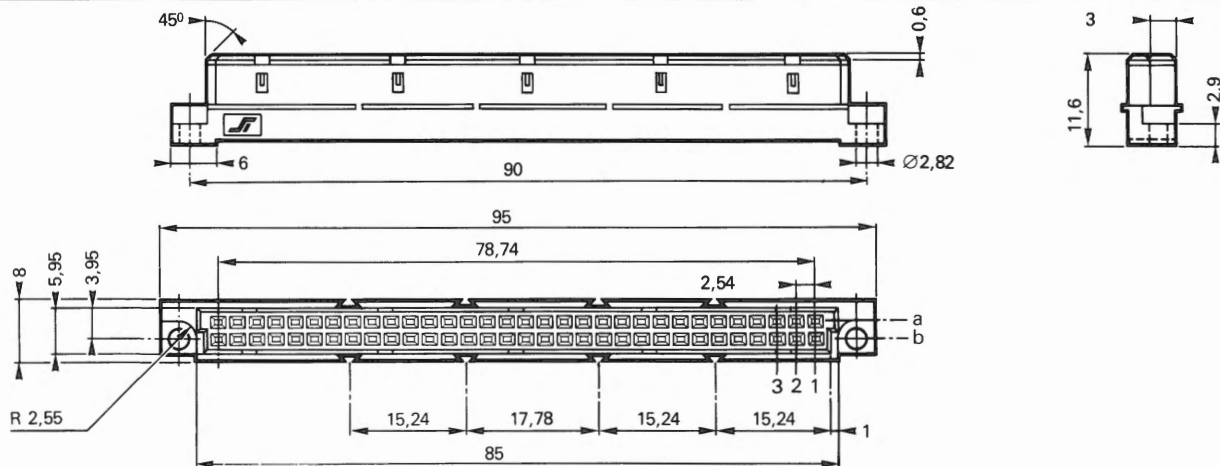
2 row insulators	3 row insulators
DIN 41612 series B (standard mounting)	DIN 41612 series C (standard mounting)
DIN 41612 series Q (reverse mounting)	DIN 41612 series R (reverse mounting)
	derived HE11 series (reverse mounting)

DIN 41612

series **B**

souriau
series 8609

standard receptacles

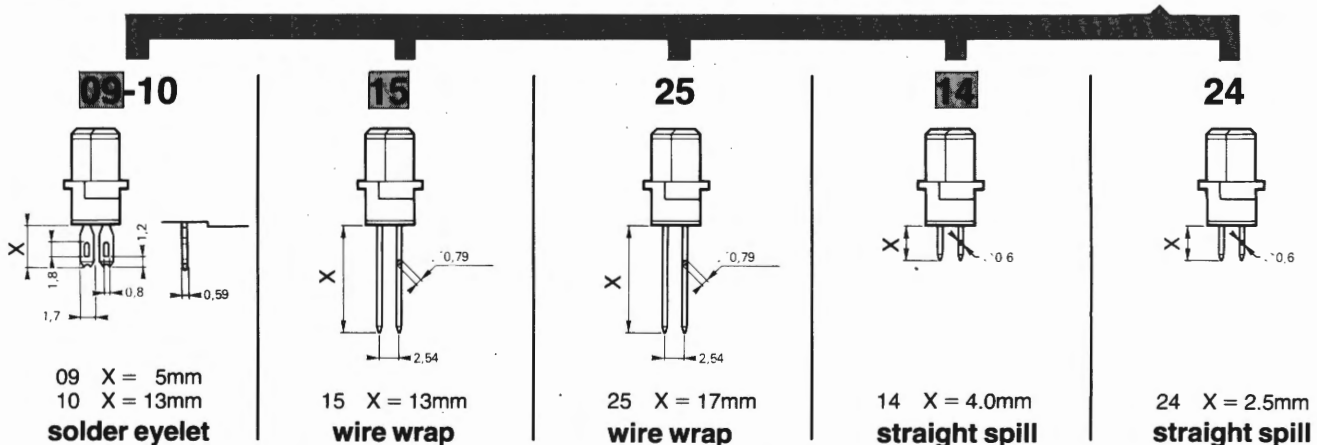


ordering information

2.54mm pitch

No. of Cts.	Rows with Contacts	Min. No. of Ops.	Class	Part Number
64	a b	400	exceeds DIN 41612 class 3	8609.264.61. .745.000.E1
64	a b	400	DIN 41612 class 2/IEC 603-2	8609.264.61. .755.000.E1
64	a b	400	DIN 41612 class 1/BT222T	8609.264.61. .765.000.E1
64	a b	500	VG95324	8609.264.61. .775.000.E1
64	a b	500	BS9525-F-0004/BT222	8609.264.61. .785.000.E1
32	a -	400	exceeds DIN 41612 class 3	8609.132.61. .745.000.E1
32	a -	400	DIN 41612 class 2/IEC 603-2	8609.132.61. .755.000.E1
32	a -	400	DIN 41612 class 1/BT222T	8609.132.61. .765.000.E1
32	a -	500	VG95324	8609.132.61. .775.000.E1
32	a -	500	BS9525-F-0004/BT222	8609.132.61. .785.000.E1
32	a b	400	exceeds DIN 41612 class 3	8609.232.61. .748.000.E1
32	a b	400	DIN 41612 class 2/IEC 603-2	8609.232.61. .758.000.E1
32	a b	400	DIN 41612 class 1/BT222T	8609.232.61. .768.000.E1
32	a b	500	VG95324	8609.232.61. .778.000.E1
32	a b	500	BS9525-F-0004/BT222	8609.232.61. .788.000.E1
16	a -	400	exceeds DIN 41612 class 3	8609.116.61. .748.000.E1
16	a -	400	DIN 41612 class 2/IEC 603-2	8609.116.61. .758.000.E1
16	a -	400	DIN 41612 class 1/BT222T	8609.116.61. .768.000.E1
16	a -	500	VG95324	8609.116.61. .778.000.E1
16	a -	500	BS9525-F-0004/BT222	8609.116.61. .788.000.E1

5.08mm pitch

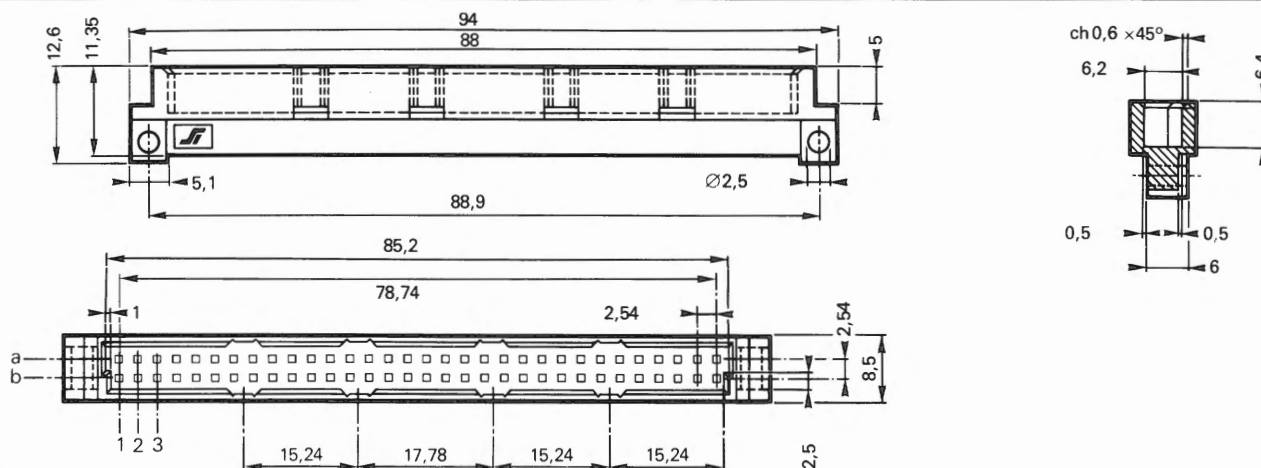


16/32/64 contacts
2.54/5.08mm pitch

DIN 41612

series B

standard plugs

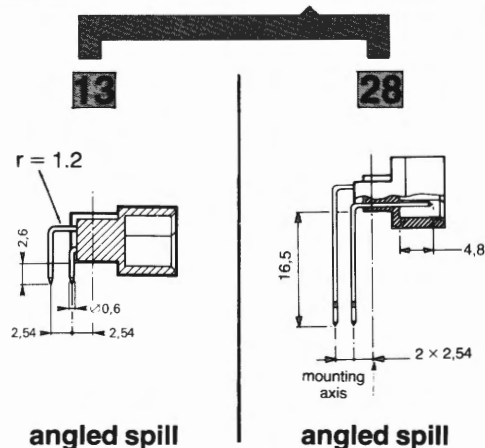


ordering information

2.54mm pitch

No. of Cts.	Rows with Contacts	Min. No. of Ops.	Class	Part Number
64	a b	400	exceeds DIN 41612 class 3	8609.264.51 .745.000.E1
64	a b	400	DIN 41612 class 2/IEC 603-2	8609.264.51 .755.000.E1
64	a b	400	DIN 41612 class 1/BT222T	8609.264.51 .765.000.E1
64	a b	500	VG95324	8609.264.51 .775.000.E1
64	a b	500	BS9525-F-0004/BT222	8609.264.51 .785.000.E1
32	a -	400	exceeds DIN 41612 class 3	8609.132.51 .745.000.E1
32	a -	400	DIN 41612 class 2/IEC 603-2	8609.132.51 .755.000.E1
32	a -	400	DIN 41612 class 1/BT222T	8609.132.51 .765.000.E1
32	a -	500	VG95324	8609.132.51 .775.000.E1
32	a -	500	BS9525-F-0004/BT222	8609.132.51 .785.000.E1
32	a b	400	exceeds DIN 41612 class 3	8609.232.51 .748.000.E1
32	a b	400	DIN 41612 class 2/IEC 603-2	8609.232.51 .758.000.E1
32	a b	400	DIN 41612 class 1/BT222T	8609.232.51 .768.000.E1
32	a b	500	VG95324	8609.232.51 .778.000.E1
32	a b	500	BS9525-F-0004/BT222	8609.232.51 .788.000.E1
16	a -	400	exceeds DIN 41612 class 3	8609.116.51 .748.000.E1
16	a -	400	DIN 41612 class 2/IEC 603-2	8609.116.51 .758.000.E1
16	a -	400	DIN 41612 class 1/BT222T	8609.116.51 .768.000.E1
16	a -	500	VG95324	8609.116.51 .778.000.E1
16	a -	500	BS9525-F-0004/BT222	8609.116.51 .788.000.E1

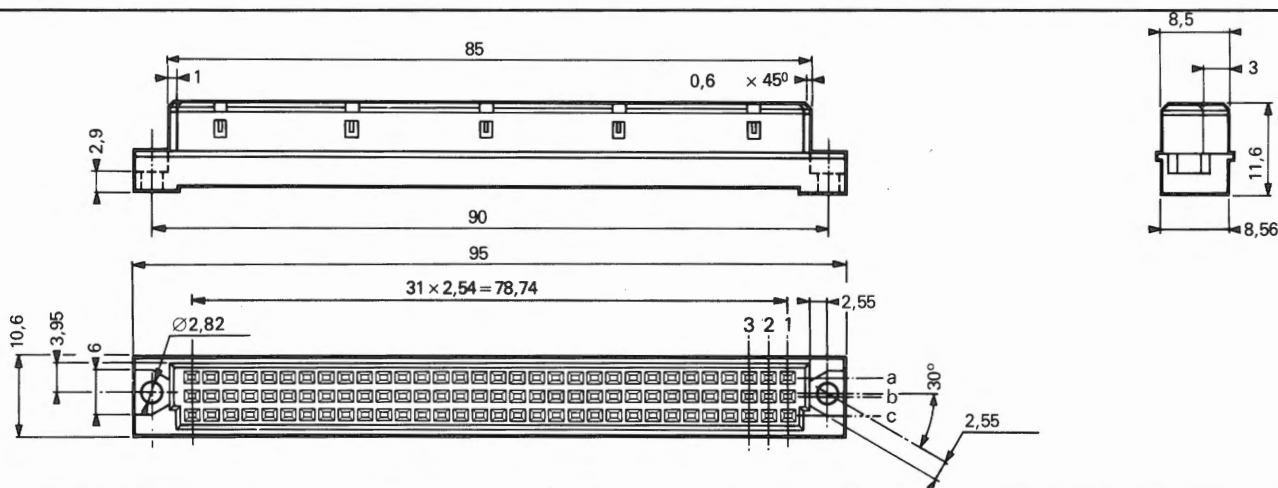
5.08mm pitch



angled spill

angled spill

standard receptacles



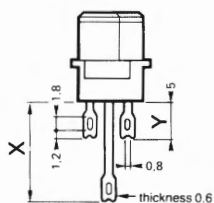
ordering information

2.54mm pitch

No. of Cts.	Rows with Contacts	Min. No. of Ops.	Class	Part Number	
96	a b c	400	exceeds DIN 41612 class 3	8609.396.81	.745.000.E1
96	a b c	400	DIN 41612 class 2/IEC 603-2	8609.396.81	.755.000.E1
96	a b c	400	DIN 41612 class 1/BT222T	8609.396.81	.765.000.E1
96	a b c	500	VG95324	8609.396.81	.775.000.E1
96	a b c	500	BS9525-F-0004/BT222	8609.396.81	.785.000.E1
64	a - c	400	exceeds DIN 41612 class 3	8609.464.81	.745.000.E1
64	a - c	400	DIN 41612 class 2/IEC 603-2	8609.464.81	.755.000.E1
64	a - c	400	DIN 41612 class 1/BT222T	8609.464.81	.765.000.E1
64	a - c	500	VG95324	8609.464.81	.775.000.E1
64	a - c	500	BS9525-F-0004/BT222	8609.464.81	.785.000.E1
48	a b c	400	exceeds DIN 41612 class 3	8609.348.81	.748.000.E1
48	a b c	400	DIN 41612 class 2/IEC 603-2	8609.348.81	.758.000.E1
48	a b c	400	DIN 41612 class 1/BT222T	8609.348.81	.768.000.E1
48	a b c	500	VG95324	8609.348.81	.778.000.E1
48	a b c	500	BS9525-F-0004/BT222	8609.348.81	.788.000.E1
32	a - c	400	exceeds DIN 41612 class 3	8609.432.81	.748.000.E1
32	a - c	400	DIN 41612 class 2/IEC 603-2	8609.432.81	.758.000.E1
32	a - c	400	DIN 41612 class 1/BT222T	8609.432.81	.768.000.E1
32	a - c	500	VG95324	8609.432.81	.778.000.E1
32	a - c	500	BS9525-F-0004/BT222	8609.432.81	.788.000.E1

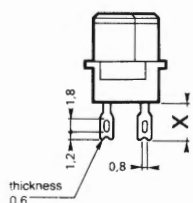
5.08mm pitch

08



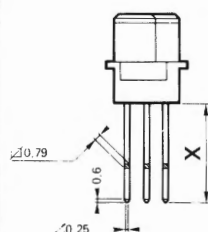
08 X = 13mm
Y = 5mm
solder eyelet

09-10



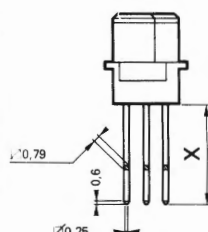
09 X = 5mm
10 X = 13mm
solder eyelet

15



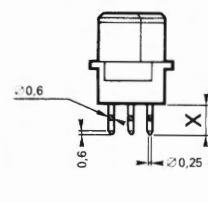
15 X = 13mm
wire wrap

25



25 X = 17mm
wire wrap

14-24

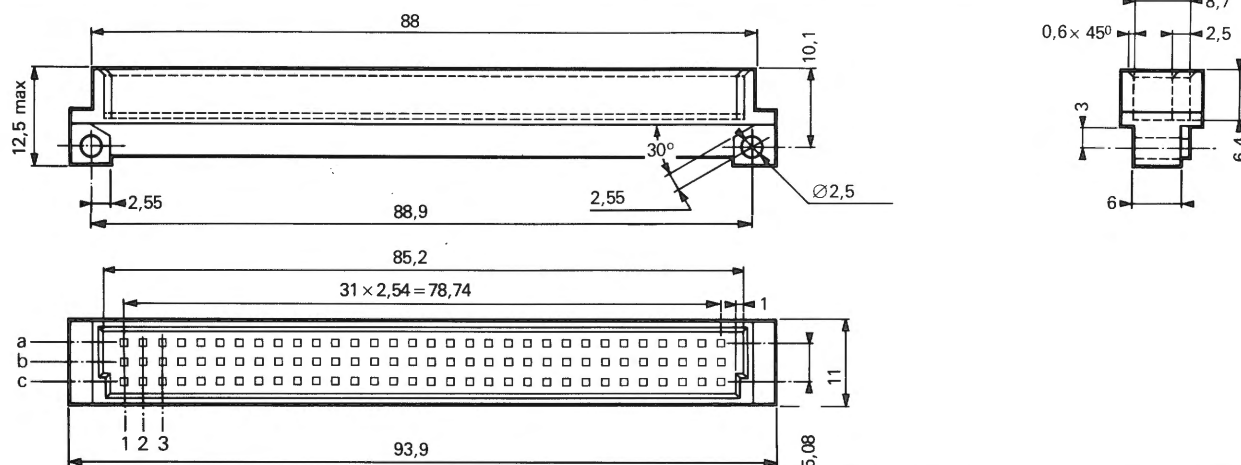


14 X = 4mm
24 X = 2.5mm
straight spill

32/48/64/96
contacts
2.54/5.08mm pitch

DIN 41612
series **C**

standard plugs

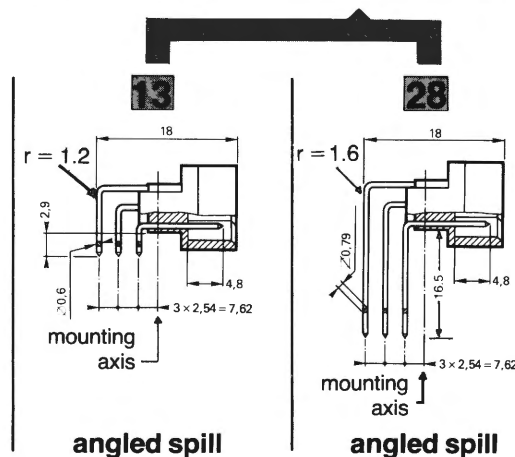


ordering information

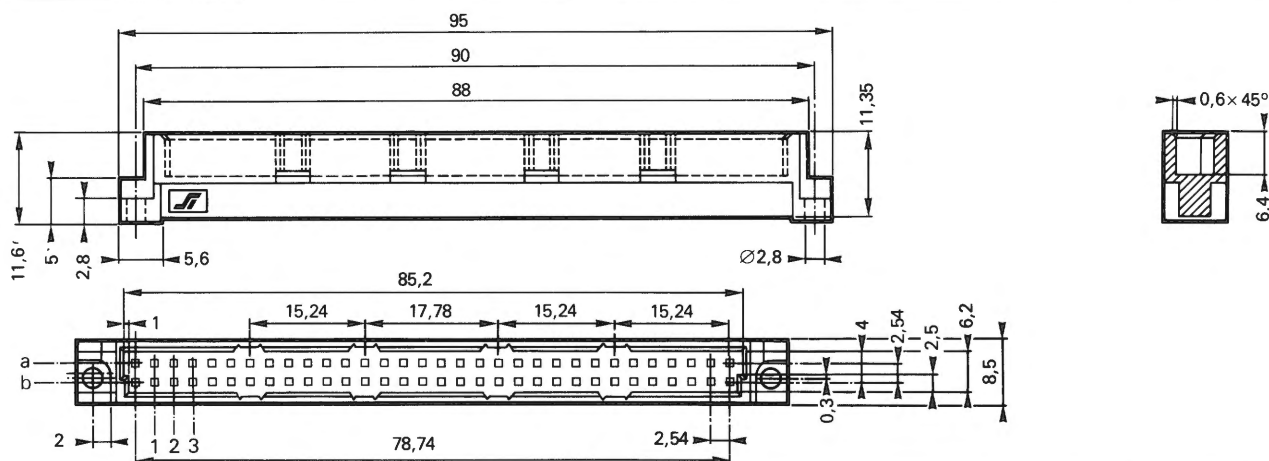
2.54mm pitch

No. of Cts	Rows with Contacts	Min. No. of Cps.	Class	Part Number
96	a b c	400	exceeds DIN 41612 class 3	8609.396.71.745.000.E1
96	a b c	400	DIN 41612 class 2/IEC 603-2	8609.396.71.755.000.E1
96	a b c	400	DIN 41612 class 1/BT222T	8609.396.71.765.000.E1
96	a b c	500	VG95324	8609.396.71.775.000.E1
96	a b c	500	BS9525-F-0004/BT222	8609.396.71.785.000.E1
64	a - c	400	exceeds DIN 41612 class 3	8609.464.71.745.000.E1
64	a - c	400	DIN 41612 class 2/IEC 603-2	8609.464.71.755.000.E1
64	a - c	400	DIN 41612 class 1/BT222T	8609.464.71.765.000.E1
64	a - c	500	VG95324	8609.464.71.775.000.E1
64	a - c	500	BS9525-F-0004/BT222	8609.464.71.785.000.E1
48	a b c	400	exceeds DIN 41612 class 3	8609.348.71.748.000.E1
48	a b c	400	DIN 41612 class 2/IEC 603-2	8609.348.71.758.000.E1
48	a b c	400	DIN 41612 class 1/BT222T	8609.348.71.768.000.E1
48	a b c	500	VG95324	8609.348.71.778.000.E1
48	a b c	500	BS9525-F-0004/BT222	8609.348.71.788.000.E1
32	a - c	400	exceeds DIN 41612 class 3	8609.432.71.748.000.E1
32	a - c	400	DIN 41612 class 2/IEC 603-2	8609.432.71.758.000.E1
32	a - c	400	DIN 41612 class 1/BT222T	8609.432.71.768.000.E1
32	a - c	500	VG95324	8609.432.71.778.000.E1
32	a - c	500	BS9525-F-0004/BT222	8609.432.71.788.000.E1

5.08mm pitch



reverse receptacles

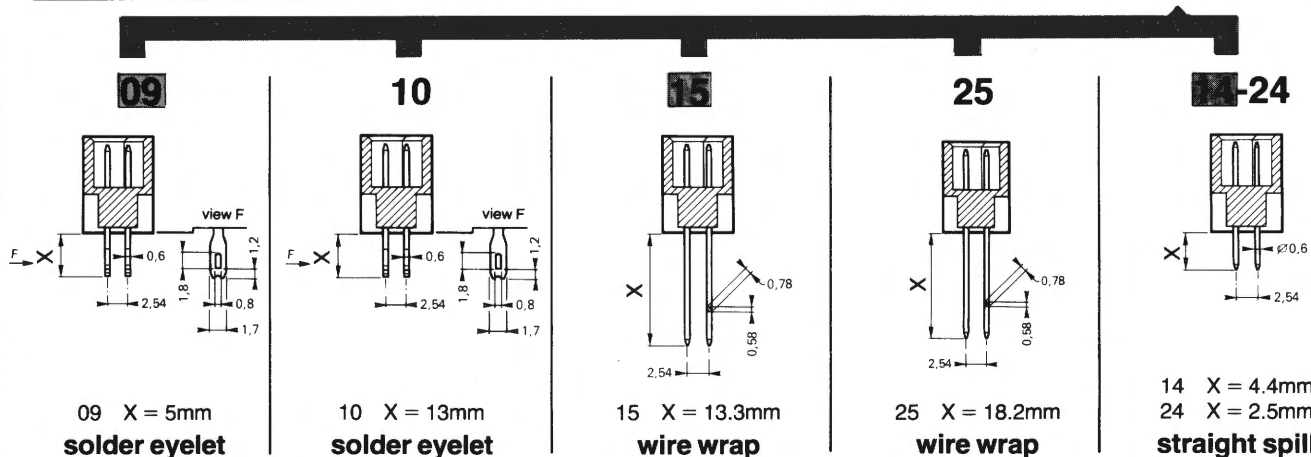


ordering information

2.54mm pitch

No. of Cts	Rows with Contacts	Min. No. of Cts	Class	Part Number
64	a b	400	exceeds DIN 41612 class 3	8609.264.58.745.000.E1
64	a b	400	DIN 41612 class 2	8609.264.58.755.000.E1
64	a b	400	DIN 41612 class 1/BT222T	8609.264.58.765.000.E1
64	a b	500	VG95324	8609.264.58.775.000.E1
64	a b	500	BS9525-F-0017/BT222	8609.264.58.785.000.E1
32	a -	400	exceeds DIN 41612 class 3	8609.132.58.745.000.E1
32	a -	400	DIN 41612 class 2	8609.132.58.755.000.E1
32	a -	400	DIN 41612 class 1/BT222T	8609.132.58.765.000.E1
32	a -	500	VG95324	8609.132.58.775.000.E1
32	a -	500	BS9525-F-0017/BT222	8609.132.58.785.000.E1
32	a b	400	exceeds DIN 41612 class 3	8609.232.58.748.000.E1
32	a b	400	DIN 41612 class 2	8609.232.58.758.000.E1
32	a b	400	DIN 41612 class 1/BT222T	8609.232.58.768.000.E1
32	a b	500	VG95324	8609.232.58.778.000.E1
32	a b	500	BS9525-F-0017/BT222	8609.232.58.788.000.E1
16	a -	400	exceeds DIN 41612 class 3	8609.116.58.748.000.E1
16	a -	400	DIN 41612 class 2	8609.116.58.758.000.E1
16	a -	400	DIN 41612 class 1/BT222T	8609.116.58.768.000.E1
16	a -	500	VG95324	8609.116.58.778.000.E1
16	a -	500	BS9525-F-0017/BT222	8609.116.58.788.000.E1

5.08mm pitch

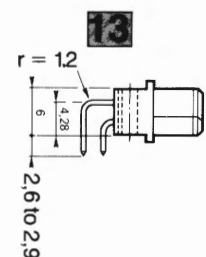


■ = preferred style – other termination lengths on special request.

DIN 41612

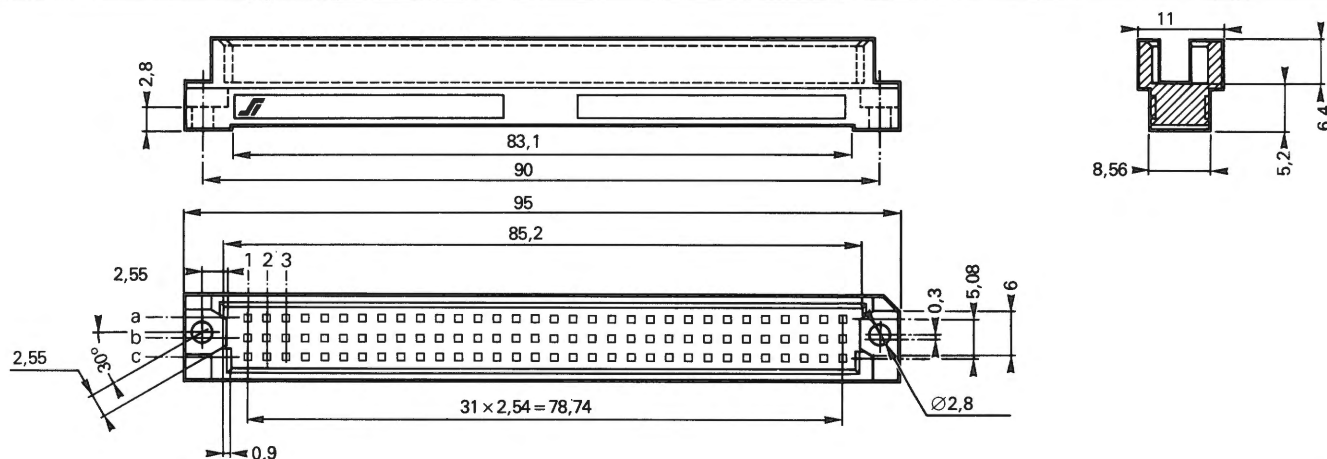
series Q

No. of Cts.	Rows with Contacts	Min. No. of Ops.	Class	Part Number
64	a b	400	exceeds DIN 41612 class 3	8609.264.68.13.745.000.E1
64	a b	400	DIN 41612 class 2	8609.264.68.13.755.000.E1
64	a b	400	DIN 41612 class 1/BT222T	8609.264.68.13.765.000.E1
64	a b	500	VG95324	8609.264.68.13.775.000.E1
64	a b	500	BS9525-F-0017/BT222	8609.264.68.13.785.000.E1
32	a –	400	exceeds DIN 41612 class 3	8609.132.68.13.745.000.E1
32	a –	400	DIN 41612 class 2	8609.132.68.13.755.000.E1
32	a –	400	DIN 41612 class 1/BT222T	8609.132.68.13.765.000.E1
32	a –	500	VG95324	8609.132.68.13.775.000.E1
32	a –	500	BS9525-F-0017/BT222	8609.132.68.13.785.000.E1
32	a b	400	exceeds DIN 41612 class 3	8609.232.68.13.748.000.E1
32	a b	400	DIN 41612 class 2	8609.232.68.13.758.000.E1
32	a b	400	DIN 41612 class 1/BT222T	8609.232.68.13.768.000.E1
32	a b	500	VG95324	8609.232.68.13.778.000.E1
32	a b	500	BS9525-F-0017/BT222	8609.232.68.13.788.000.E1
16	a –	400	exceeds DIN 41612 class 3	8609.116.68.13.748.000.E1
16	a –	400	DIN 41612 class 2	8609.116.68.13.758.000.E1
16	a –	400	DIN 41612 class 1/BT222T	8609.116.68.13.768.000.E1
16	a –	500	VG95324	8609.116.68.13.778.000.E1
16	a –	500	BS9525-F-0017/BT222	8609.116.68.13.788.000.E1



13

reverse receptacles

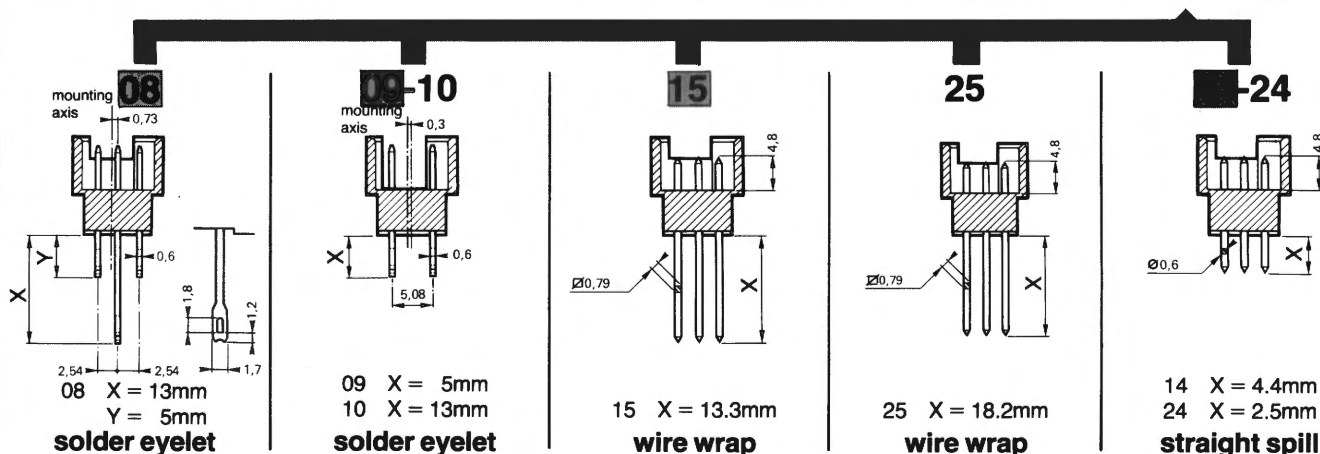


ordering information

2.54mm pitch

No. of Circ.	Rows with Contacts	Min. No. of Cops.	Class	Part Number
96	a b c	400	exceeds DIN 41612 class 3	8609.396.78.745.000.E1
96	a b c	400	DIN 41612 class 2	8609.396.78.755.000.E1
96	a b c	400	DIN 41612 class 1/BT222T	8609.396.78.765.000.E1
96	a b c	500	VG95324	8609.396.78.775.000.E1
96	a b c	500	BS9525-F-0017/BT222	8609.396.78.785.000.E1
64	a - c	400	exceeds DIN 41612 class 3	8609.464.78.745.000.E1
64	a - c	400	DIN 41612 class 2	8609.464.78.755.000.E1
64	a - c	400	DIN 41612 class 1/BT222T	8609.464.78.765.000.E1
64	a - c	500	VG95324	8609.464.78.775.000.E1
64	a - c	500	BS9525-F-0017/BT222	8609.464.78.785.000.E1
48	a b c	400	exceeds DIN 41612 class 3	8609.348.78.748.000.E1
48	a b c	400	DIN 41612 class 2	8609.348.78.758.000.E1
48	a b c	400	DIN 41612 class 1/BT222T	8609.348.78.768.000.E1
48	a b c	500	VG95324	8609.348.78.778.000.E1
48	a b c	500	BS9525-F-0017/BT222	8609.348.78.788.000.E1
32	a - c	400	exceeds DIN 41612 class 3	8609.432.78.748.000.E1
32	a - c	400	DIN 41612 class 2	8609.432.78.758.000.E1
32	a - c	400	DIN 41612 class 1/BT222T	8609.432.78.768.000.E1
32	a - c	500	VG95324	8609.432.78.778.000.E1
32	a - c	500	BS9525-F-0017/BT222	8609.432.78.788.000.E1

5.08mm pitch

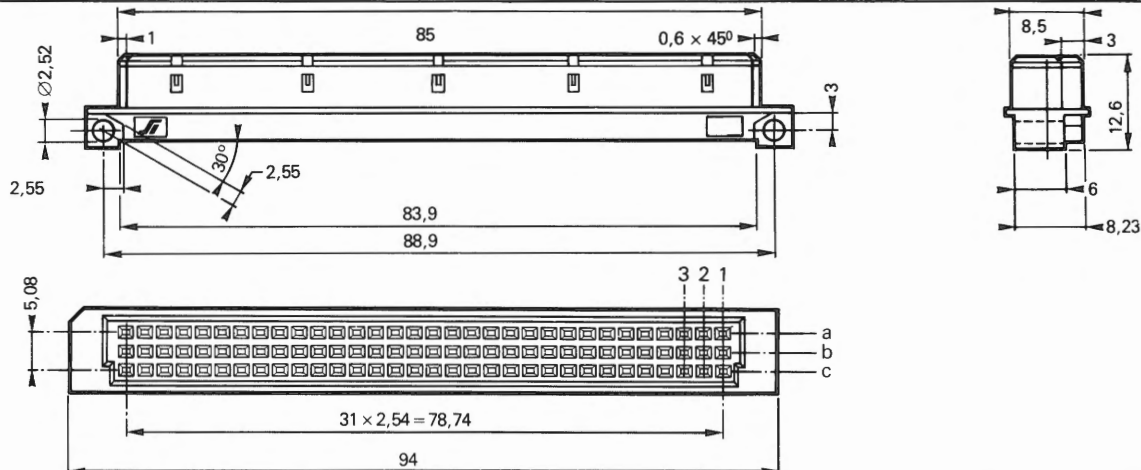


□ = preferred style – other termination lengths on special request.

32/48/64/96
contacts
2.54/5.08mm pitch

DIN 41612
series R

reverse plugs

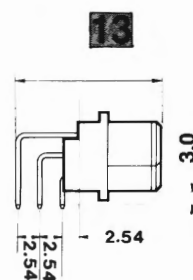


ordering information

2.54mm pitch

No. of Cts	Rows with Contacts	Min. No. of Ops	Class	Part Number
96	a b c	400	exceeds DIN 41612 class 3	8609.396.88.13.745.000.E1
96	a b c	400	DIN 41612 class 2	8609.396.88.13.755.000.E1
96	a b c	400	DIN 41612 class 1/BT222T	8609.396.88.13.765.000.E1
96	a b c	500	VG95324	8609.396.88.13.775.000.E1
96	a b c	500	BS9525-F-0017/BT222	8609.396.88.13.785.000.E1
64	a - c	400	exceeds DIN 41612 class 3	8609.464.88.13.745.000.E1
64	a - c	400	DIN 41612 class 2	8609.464.88.13.755.000.E1
64	a - c	400	DIN 41612 class 1/BT222T	8609.464.88.13.765.000.E1
64	a - c	500	VG95324	8609.464.88.13.775.000.E1
64	a - c	500	BS9525-F-0017/BT222	8609.464.88.13.785.000.E1
48	a b c	400	exceeds DIN 41612 class 3	8609.348.88.13.748.000.E1
48	a b c	400	DIN 41612 class 2	8609.348.88.13.758.000.E1
48	a b c	400	DIN 41612 class 1/BT222T	8609.348.88.13.768.000.E1
48	a b c	500	VG95324	8609.348.88.13.778.000.E1
48	a b c	500	BS9525-F-0017/BT222	8609.348.88.13.788.000.E1
32	a - c	400	exceeds DIN 41612 class 3	8609.432.88.13.748.000.E1
32	a - c	400	DIN 41612 class 2	8609.432.88.13.758.000.E1
32	a - c	400	DIN 41612 class 1/BT222T	8609.432.88.13.768.000.E1
32	a - c	500	VG95324	8609.432.88.13.778.000.E1
32	a - c	500	BS9525-F-0017/BT222	8609.432.88.13.788.000.E1

5.08mm pitch



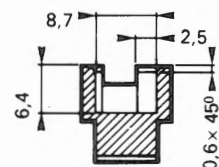
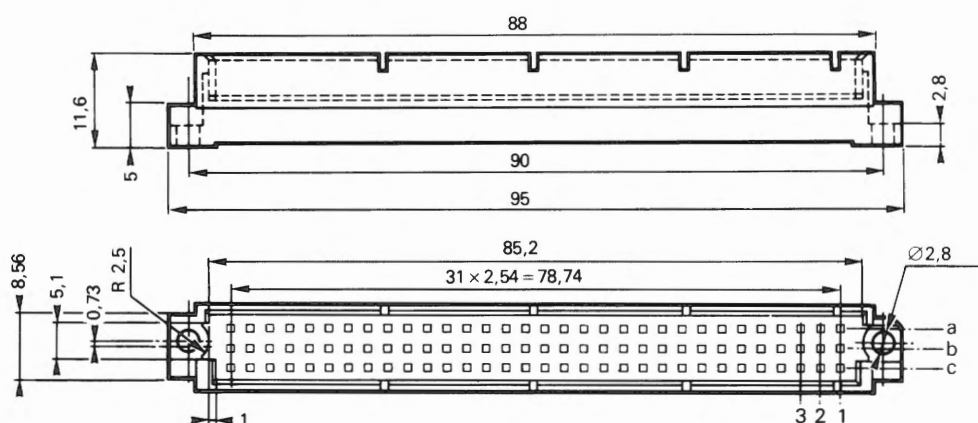
diagonal 0.79
angled spill

DIN 41612

derived HE11
reverse

souriau
series 8609

HE11 reverse receptacles



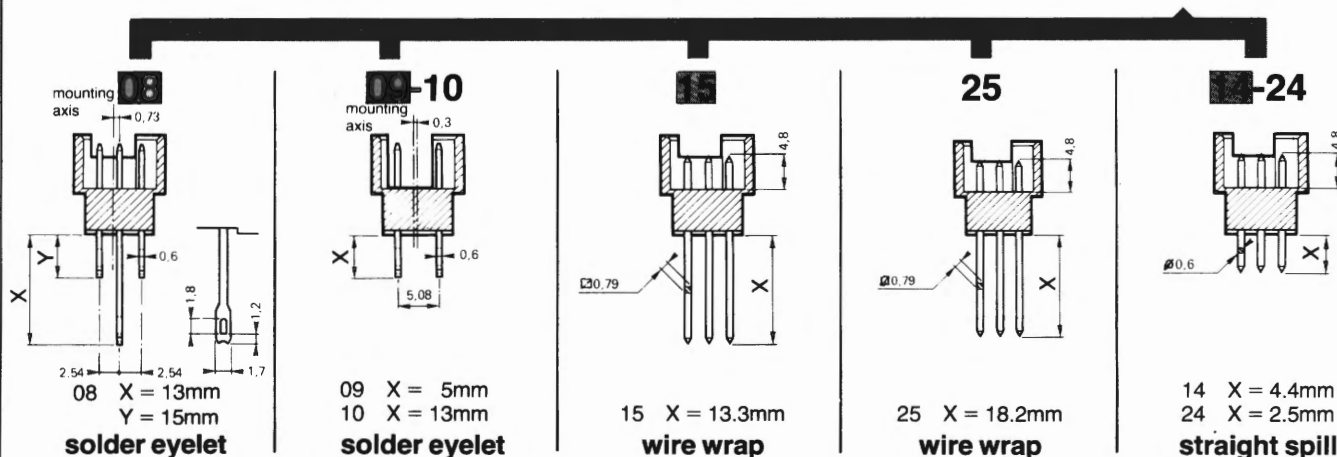
2 row insulator
2.54mm pitch

Part Number	Pin Configuration	Pin Count	Part Number	Part Number
64	a b	400	HE11-01	8609.264.59
64	a b	400	HE11-02	8609.264.59
64	a b	500	HE11-03	8609.264.59
32	a -	400	HE11-01	8609.132.59
32	a -	400	HE11-02	8609.132.59
32	a -	500	HE11-03	8609.132.59
32	a b	400	HE11-01	8609.232.59
32	a b	400	HE11-02	8609.232.59
32	a b	500	HE11-03	8609.232.59
16	a -	400	HE11-01	8609.116.59
16	a -	400	HE11-02	8609.116.59
16	a -	500	HE11-03	8609.116.59
96	a b c	400	HE11-01	8609.396.79
96	a b c	400	HE11-02	8609.396.79
96	a b c	500	HE11-03	8609.396.79
64	a - c	400	HE11-01	8609.464.79
64	a - c	400	HE11-02	8609.464.79
64	a - c	500	HE11-03	8609.464.79
48	a b c	400	HE11-01	8609.348.79
48	a b c	400	HE11-02	8609.348.79
48	a b c	500	HE11-03	8609.348.79
32	a - c	400	HE11-01	8609.432.79
32	a - c	400	HE11-02	8609.432.79
32	a - c	500	HE11-03	8609.432.79

2 row insulator
5.08mm pitch

3 row insulator
2.54mm pitch

3 row insulator
5.08mm pitch

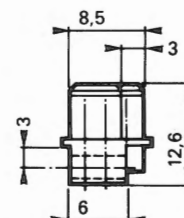
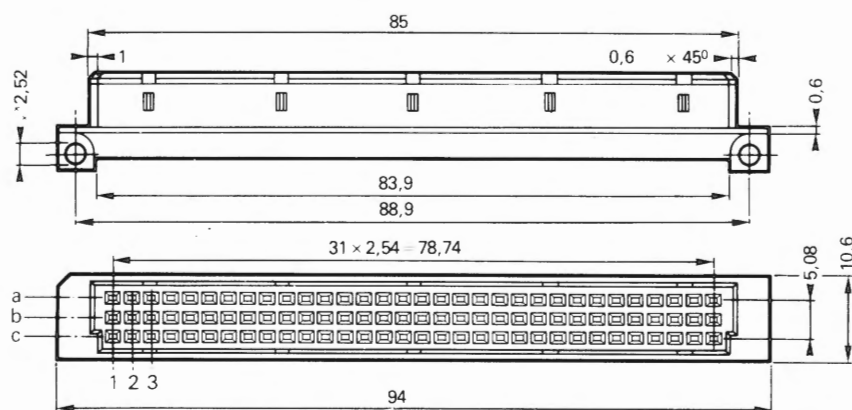


■ = preferred style

16/32/48/64/96
contacts
2.54/5.08mm pitch

DIN 41612
derived HE11
reverse

HE11 reverse plugs



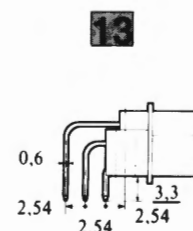
2 row insulator
 2.54mm pitch

64	a b	400	HE11-01	8609.264.69.13.745.000.E1
64	a b	400	HE11-02	8609.264.69.13.755.000.E1
64	a b	500	HE11-03	8609.264.69.13.775.000.E1
32	a -	400	HE11-01	8609.132.69.13.745.000.E1
32	a -	400	HE11-02	8609.132.69.13.755.000.E1
32	a -	500	HE11-03	8609.132.69.13.775.000.E1
32	a b	400	HE11-01	8609.232.69.13.748.000.E1
32	a b	400	HE11-02	8609.232.69.13.758.000.E1
32	a b	500	HE11-03	8609.232.69.13.778.000.E1
16	a -	400	HE11-01	8609.116.69.13.748.000.E1
16	a -	400	HE11-02	8609.116.69.13.758.000.E1
16	a -	500	HE11-03	8609.116.69.13.778.000.E1
96	a b c	400	HE11-01	8609.396.89.13.745.000.E1
96	a b c	400	HE11-02	8609.396.89.13.755.000.E1
96	a b c	500	HE11-03	8609.396.89.13.775.000.E1
64	a - c	400	HE11-01	8609.464.89.13.745.000.E1
64	a - c	400	HE11-02	8609.464.89.13.755.000.E1
64	a - c	500	HE11-03	8609.464.89.13.775.000.E1
48	a b c	400	HE11-01	8609.348.89.13.748.000.E1
48	a b c	400	HE11-02	8609.348.89.13.758.000.E1
48	a b c	500	HE11-03	8609.348.89.13.778.000.E1
32	a - c	400	HE11-01	8609.432.89.13.748.000.E1
32	a - c	400	HE11-02	8609.432.89.13.758.000.E1
32	a - c	500	HE11-03	8609.432.89.13.778.000.E1

2 row insulator
 5.08mm pitch

3 row insulator
 2.54mm pitch

3 row insulator
 5.08mm pitch



diagonal 0.79

angled spill

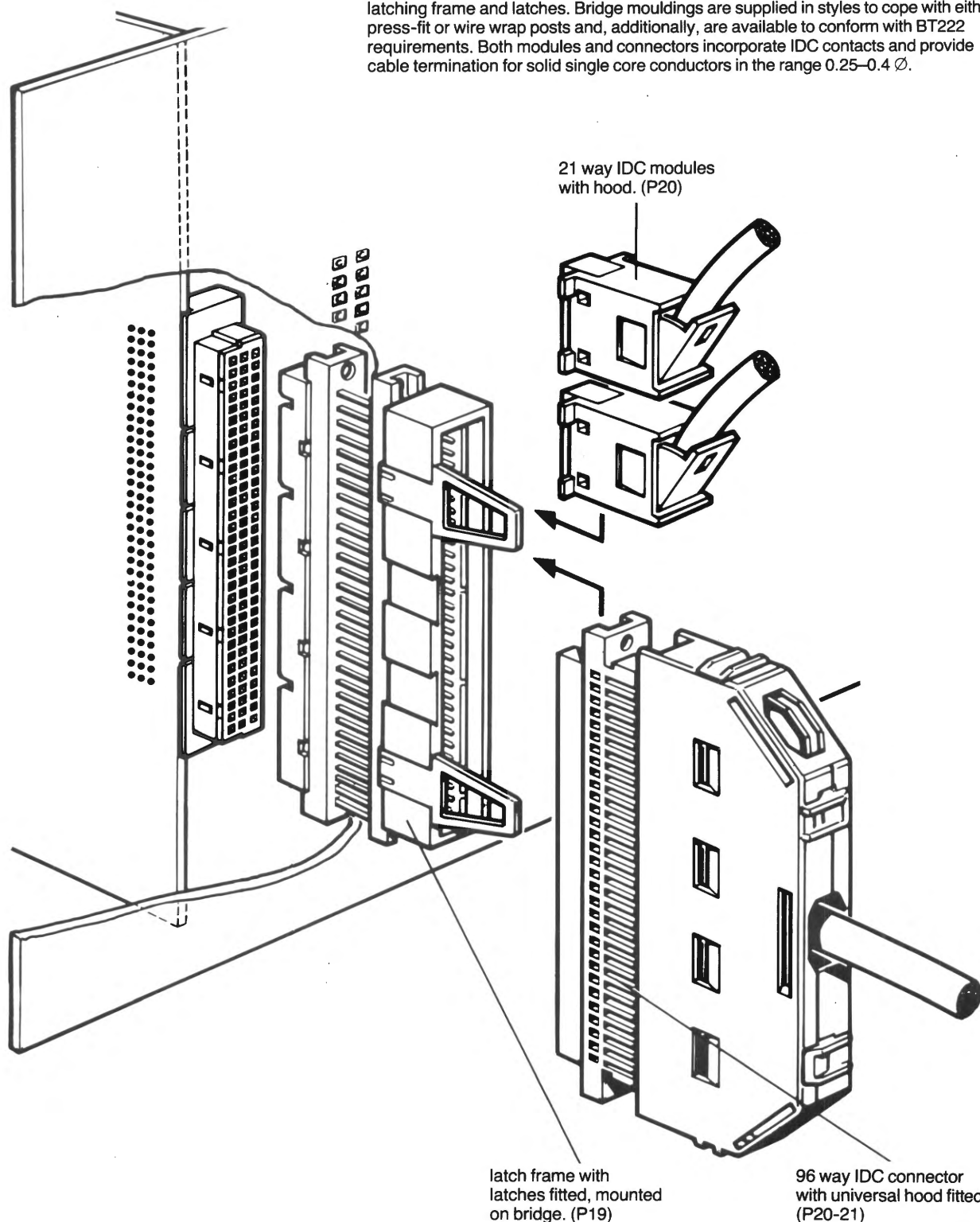
DIN 41612

derived back
panel system

souriau
series 8609

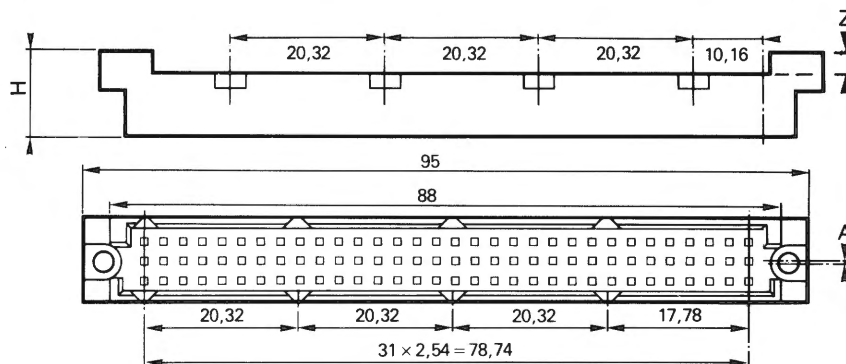
back panel system

The Souriau back panel system comprises either fully integrated rear plug up IDC 21 way modules or 96 way connectors set into a bridge with its associated, polarised latching frame and latches. Bridge mouldings are supplied in styles to cope with either press-fit or wire wrap posts and, additionally, are available to conform with BT222 requirements. Both modules and connectors incorporate IDC contacts and provide cable termination for solid single core conductors in the range 0.25–0.4 Ø.



bridge, latch frame & latch

bridge

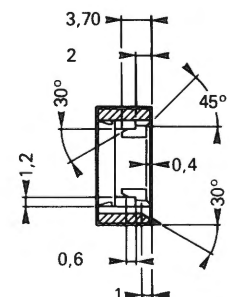
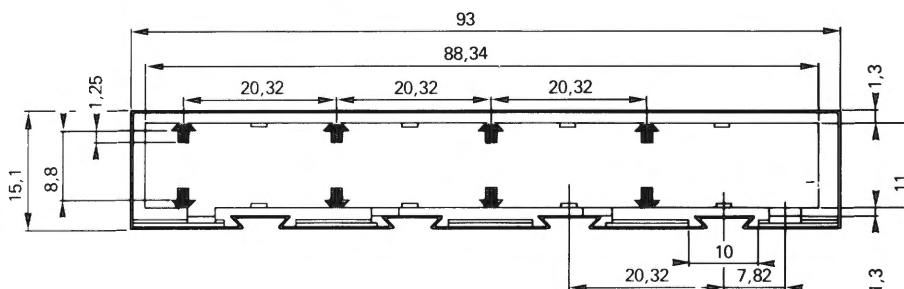


stand off Z Max.	H	part number	description
1,65	10,1	8609.78.000	minimum stand off height
3,05	11,5	8609.78.532	suitable for one wire wrap on 13mm contact using 3.2mm PC board
3,85	12,3	8609.78.524	suitable for one wire wrap on 13mm contact using 2.4mm PC board
6,35	14,8	8609.78.732	suitable for one wire wrap on 15.9mm (pressfit) contact using 3.2mm PC board
7,15	15,6	8609.78.724	suitable for one wire wrap on 15.9mm (pressfit) contact using 2.4mm PC board

standard offset:
(dimension A) is 0.3mm conforming to DIN 41612 specification.
For users requiring an offset of 0.73mm (conforming to HE11)
specification the '78' within the part number is replaced by '79'.

colour:
– standard colour is grey.
– part number 8609.78.532-1 (blue colour) conforms to British
Telecom (BT222) requirements.
– other colours are available on request.

latch frames for modules & 3 row connectors



Latch frame for modules: Part no. 8609.2235.3 (with polarising
lugs shown in blue)
Latch frame for 3 row connectors: Part no. 8609.2237.3
(without polarising lugs)

latch



Latch:
Part no. 8609.2238.3

colour (latch frames and latches):
– standard colour is grey (indicated by suffix -3 in part numbers
shown)
– part numbers with suffix -1 (blue colour) conform to British
Telecom (BT222) requirements e.g. 8609.2235-1
– black latch frames and latches can be supplied – order with
part number without any suffix. e.g. 8609.2237.

DIN 41612

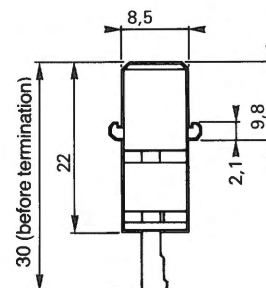
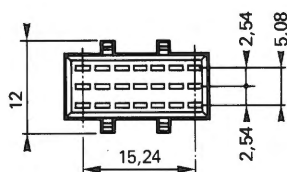
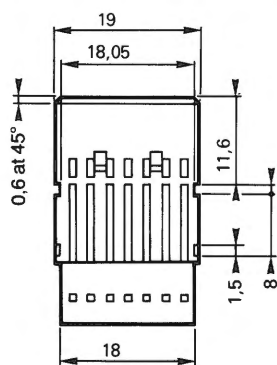
derived back
panel system

souriau
series 8609

IDC modules & receptacles for rear or front plug up assembly

IDC connectors and modules provide cable termination for wire range – 0.25 to 0.4 Ø single solid core based on the IDC. Principle offering low applies cost, mass termination.

14 & 21 contact modules

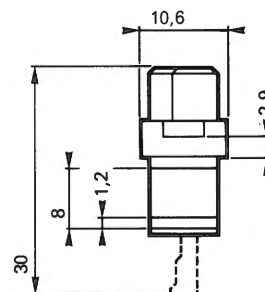
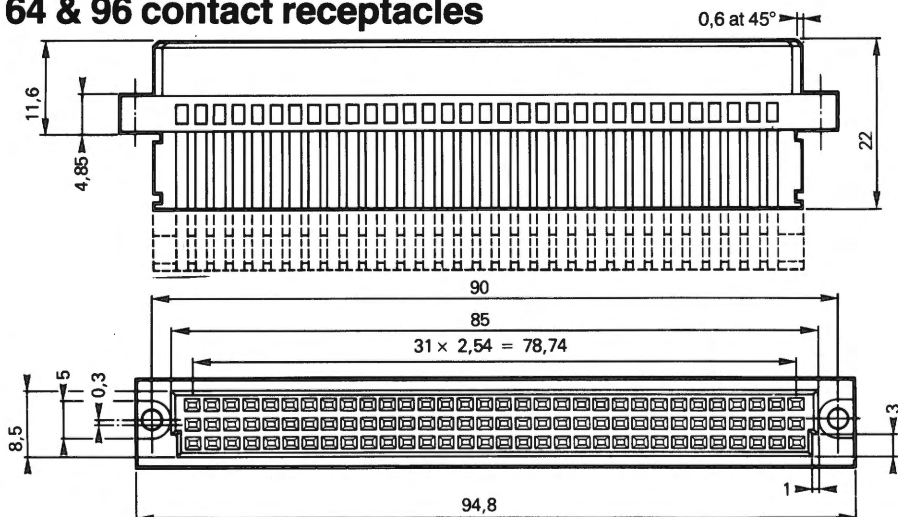


– 14 contacts – 3 row module with rows a and c loaded, part no: 8609.414.40.61.3■5.050

– 21 contacts – 3 row module fully loaded, part no: 8609.321.40.61.3■5.050

■ alternative plating to BT specification available – consult us

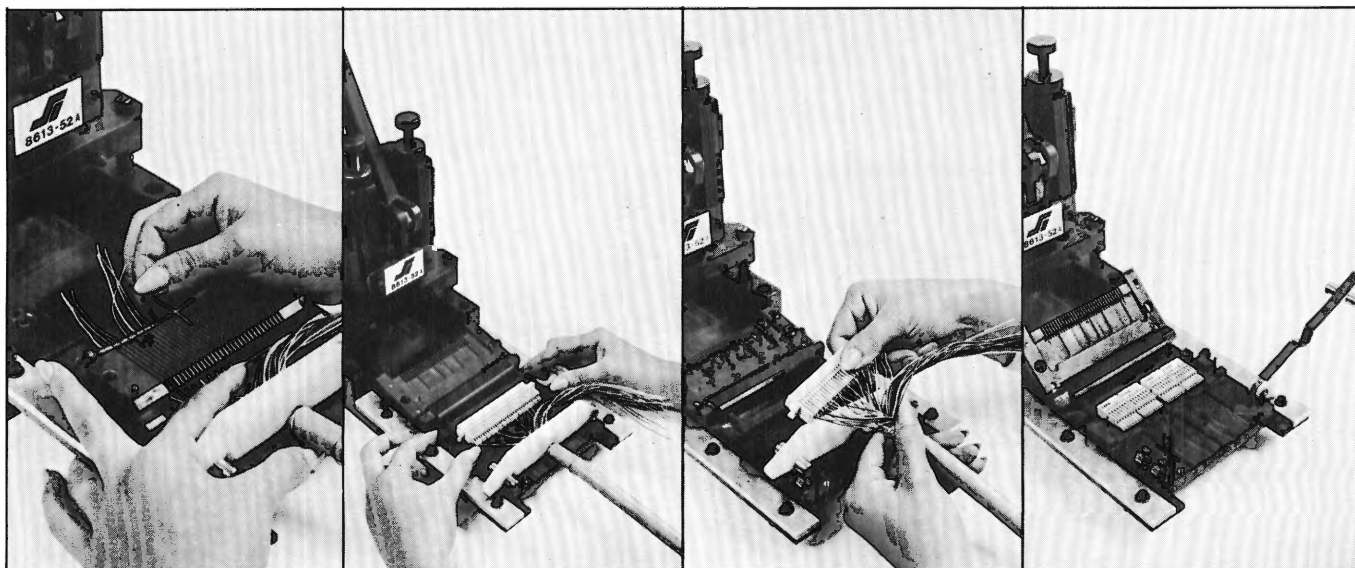
64 & 96 contact receptacles



64 way (centre row not loaded)
Part no: 8609.464.81.61.355.050

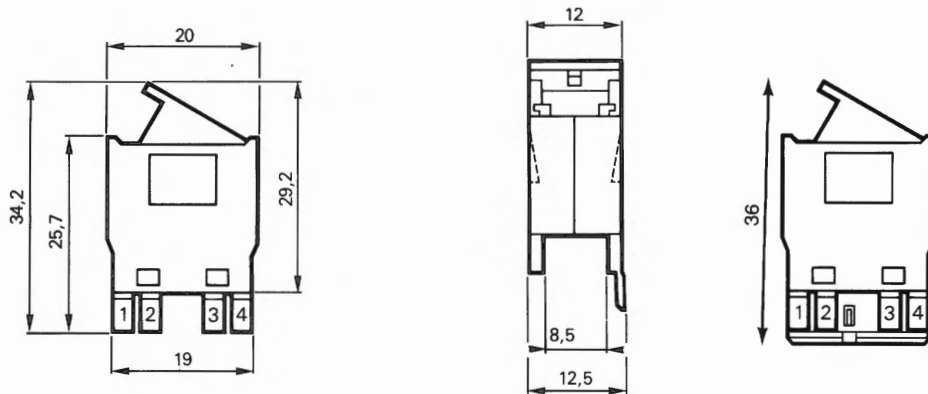
96 way (fully loaded)
Part no: 8609.396.81.61.355.050

IDC manual bench press part no. 8609/
2469. Pneumatic version also available –
consult us



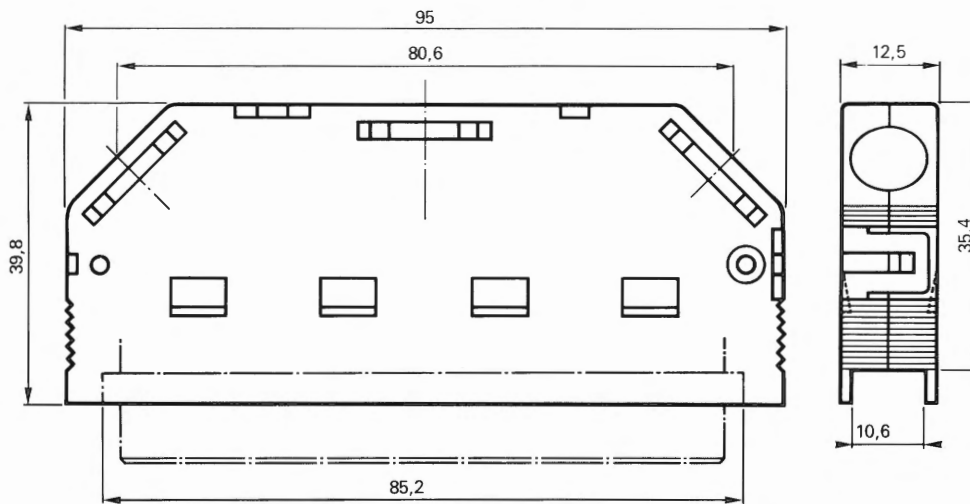
hoods for IDC modules & receptacles

hood for 14 & 21 contact modules



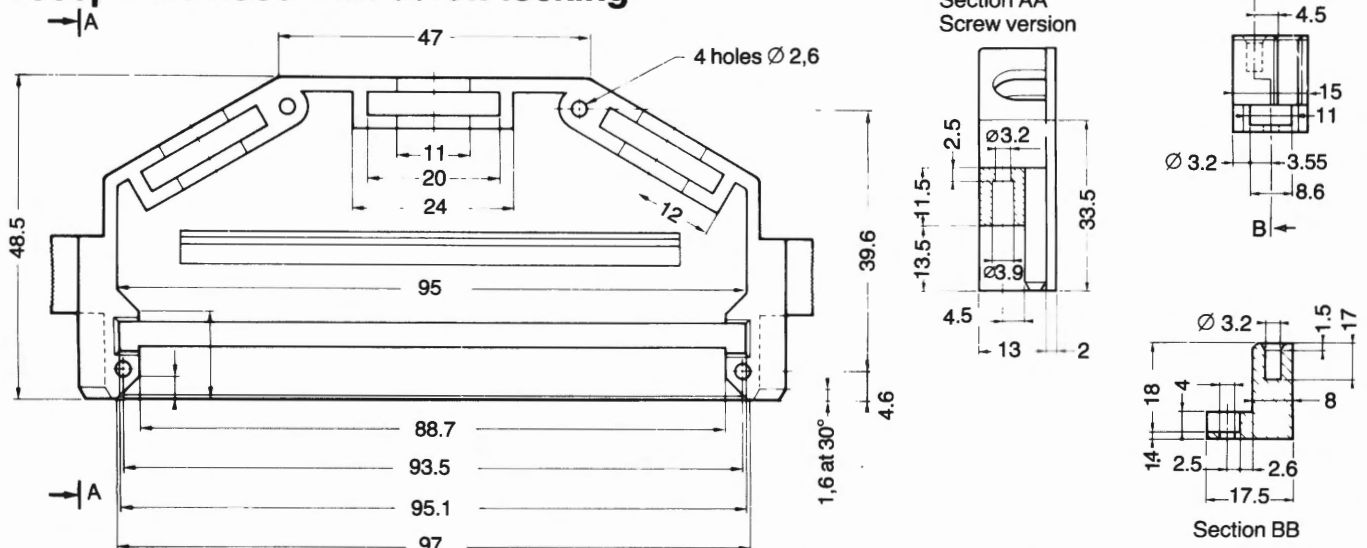
Hood with
cable clamp,
part no. 8609.3157

receptacle hood with latch locking



Hood with latch locking for
64 and 96 contact receptacle
illustrated opposite,
part no. 8609.3159

receptacle hood with screw locking



DIN 41612

derived
modular system

souriau
series 8609

modular systems 30 and 40

The 8609-30 and -40 systems are modular interconnection systems for back-plane/cable applications being designed to allow modules to be individually wired or wired from main cable spurs. They form part of a connection system on the front face of the card and complement other items conforming to European standard specifications.

Their design permits very simple setting up. The modular assembly consists of a 96 way plug or up to four 21 way modules with standard female contacts. Single and double modules and full width hoods are to cover the available wire wrap terminations.

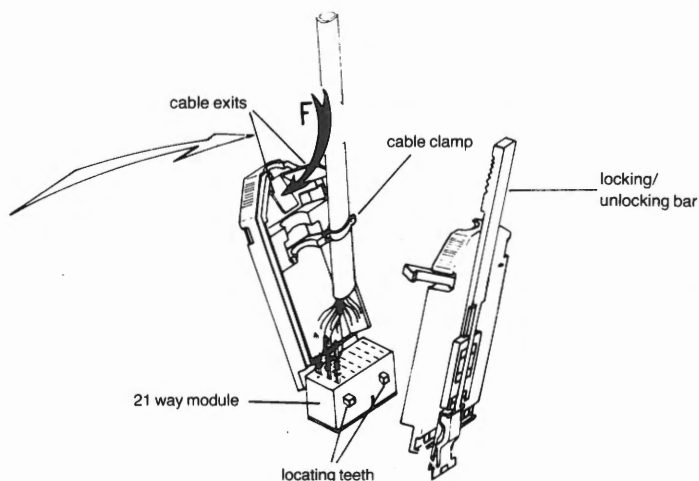
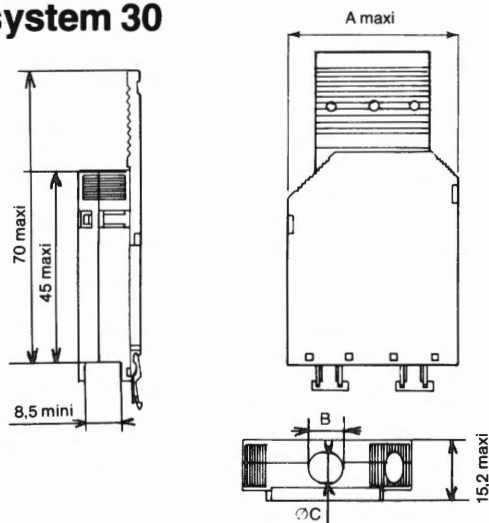
21, 14 and 7 contact modules are listed on page 24 of this catalogue.

The system 8609-30 uses a 96 way DIN series R reverse mount receptacle fitted with a lateral locking bar. This receptacle can be assembled with a transverse pitch of 15.24mm.

The system 8609-40 additionally offers the possibility of additional rear interconnection to provide a stackable system. Use can be made of special rear access hoods to connect further modules onto the tail of the wire wrap terminations. Single, double, triple and quadruple module assemblies are available.

Both systems offer easy assembly, mating and unmating operations.

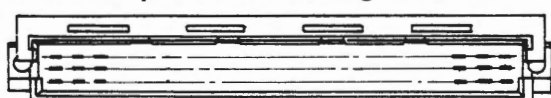
system 30



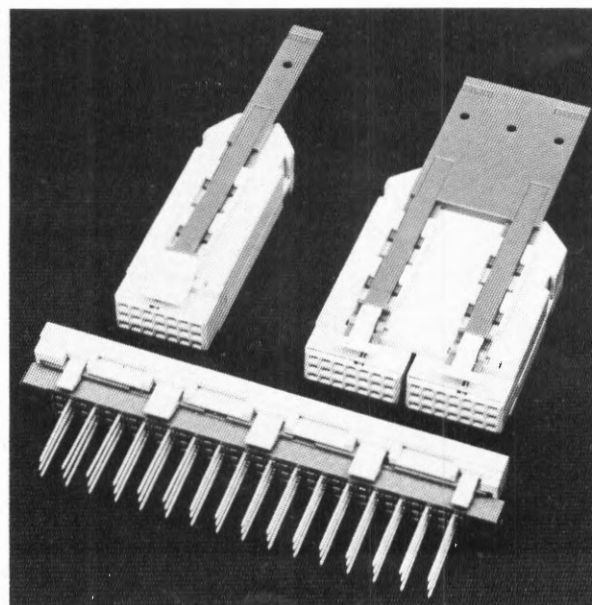
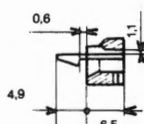
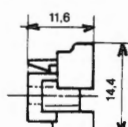
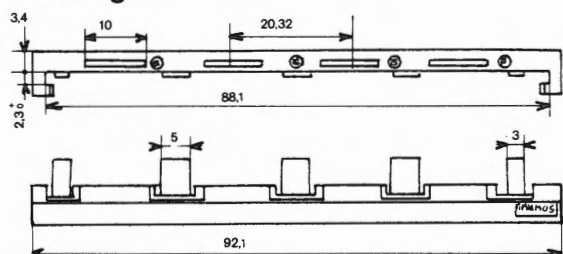
system 30 hoods dimensions and part numbers

hoods	dimensions			with locking bar w/o cable clamp	with locking bar with cable clamp	w/o locking bar w/o cable clamp
	A max.	B	C			
1 x 21	19.35	5	5	8609-356	8609-391	8609-394
2 x 21	39.66	10	7	8609-355	8609-392	8609-395
1 x 96	95.80	12	10	8609-353	8609-393	8609-396

male receptacle with locking bar fitted

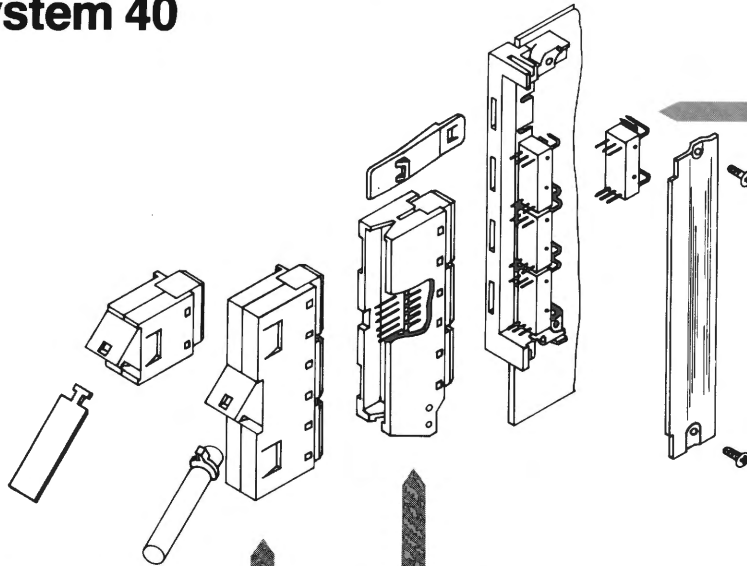


locking bar



hoods & bridges for system 40

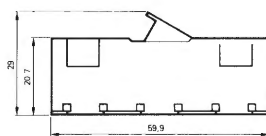
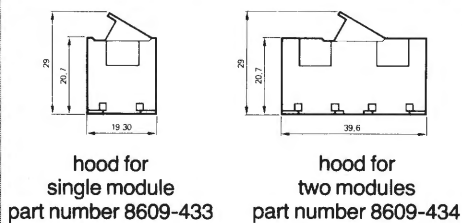
system 40



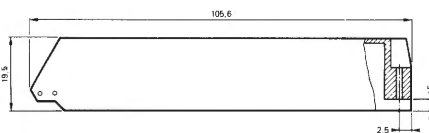
receptacle accessories

locking bar	8609-412
extraction piece	8609-413
simple metallic bracket	8609-470
double metallic bracket	8609-416
snap locking bar	8609-409
screw	8609-450
module with pin contacts	8609-396-30-13-355

hoods

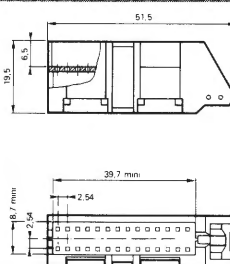


hood for triple module
part number 8609-435

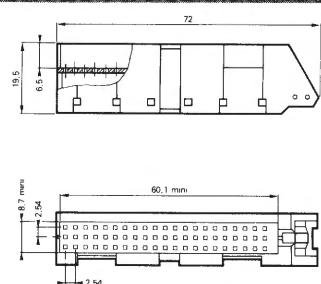


hood for four modules or 96 way connector
part number 8609-436

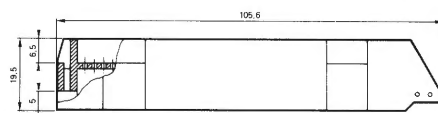
bridges



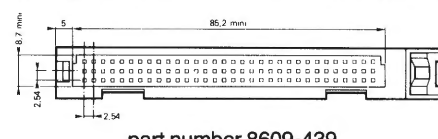
bridge for use
with two modules
part number 8609-437



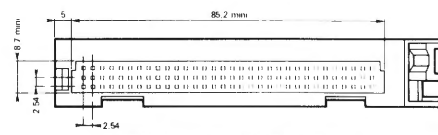
bridge for use
with three modules
part number 8609-438



bridges for use with four modules or 96 way connector



part number 8609-439



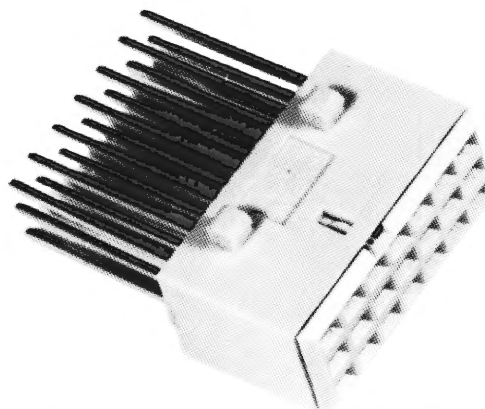
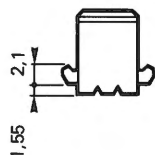
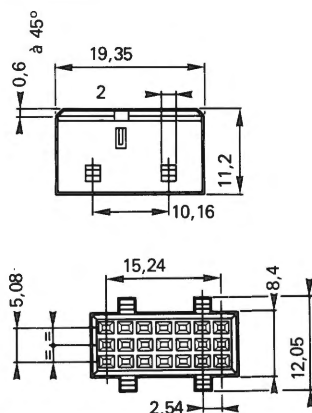
part number 8609-440

DIN 41612

derived
modular systems

souriau
series 8609

modules for systems 30 & 40

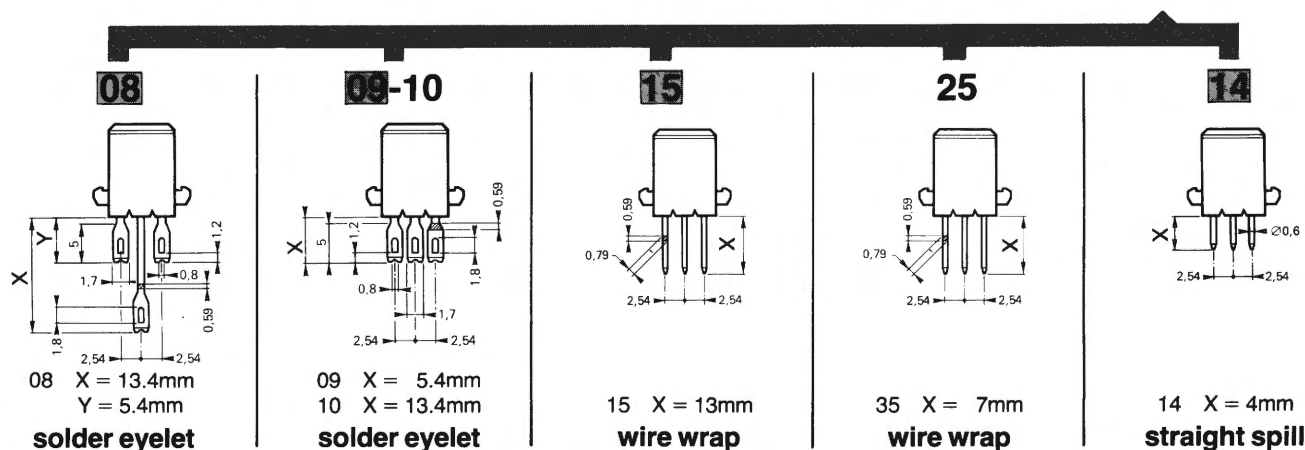


ordering information

2.54mm pitch

No. of Cts.	Rows with Contacts	Min. No. of Ops.	Class	Part Number	
21	a b c	400	DIN 41612 class 2	8609.321.40.	355.000
21	a b c	500	DIN 41612 class 1	8609.321.40.	365.000
21	a b c	500	VG95324	8609.321.40.	375.000
14	a b -	400	DIN 41612 class 2	8609.214.40.	355.000
14	a b -	500	DIN 41612 class 1	8609.214.40.	365.000
14	a b -	500	VG95324	8609.214.40.	375.000
14	a - c	400	DIN 41612 class 2	8609.414.40.	355.000
14	a - c	500	DIN 41612 class 1	8609.414.40.	365.000
14	a - c	500	VG95324	8609.414.40.	375.000
7	a - -	400	DIN 41612 class 2	8609.107.40.	355.000
7	a - -	500	DIN 41612 class 1	8609.107.40.	365.000
7	a - -	500	VG95324	8609.107.40.	375.000
12	a b c	400	DIN 41612 class 2	8609.312.40.	355.000
12	a b c	500	DIN 41612 class 1	8609.312.40.	365.000
12	a b c	500	VG95324	8609.312.40.	375.000
8	a b -	400	DIN 41612 class 2	8609.208.40.	355.000
8	a b -	500	DIN 41612 class 1	8609.208.40.	365.000
8	a b -	500	VG95324	8609.208.40.	375.000
8	a - c	400	DIN 41612 class 2	8609.408.40.	355.000
8	a - c	500	DIN 41612 class 1	8609.408.40.	365.000
8	a - c	500	VG95324	8609.408.40.	375.000

5.08mm pitch



■ = preferred style – other termination lengths on special request.

souriau
series 5159
32/48 contacts
2.54/5.08mm pitch

**receptacles with
crimp contacts**

DIN 41612
series D-E-F
crimp

**for other termination
styles in series D, E and
F see pages 26–33**

Series D – 32 contacts

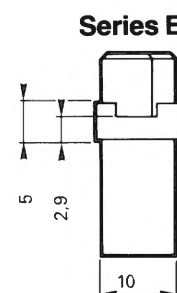
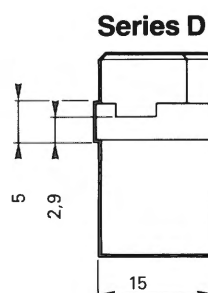
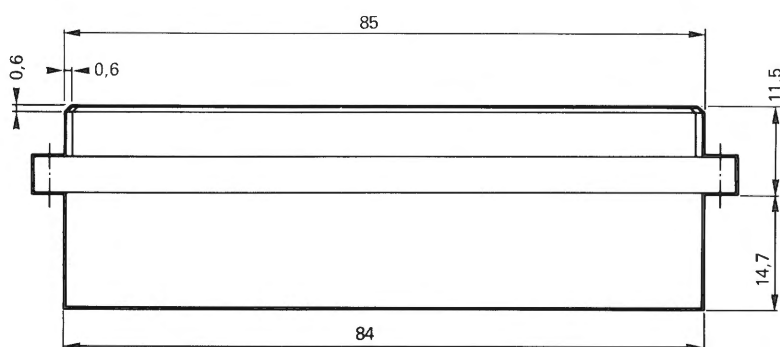
Ordering part number: 5159.035.29.03

Note: crimp contacts are ordered separately – see below

Series E – 32/48 contacts

Ordering part number: 5159.036.29.03

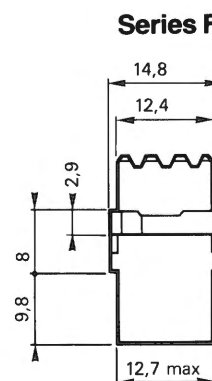
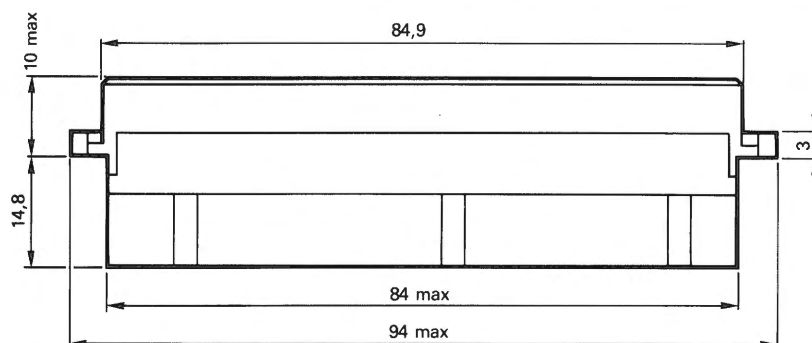
Note: crimp contacts are ordered separately – see below



Series F – 32/48 contacts

Ordering part number: 5159.009.29.03

Note: crimp contacts are ordered separately – see below



contacts and tools

Single contacts

5159.027.02.22 (0.14 – 0.5mm²)
5159.027.02.23 (0.75 – 1.5mm²)

Contacts on reel (2.500 contacts per reel)

5159.027.02.42 (0.14 – 0.5mm²)
5159.027.02.43 (0.75 – 1.5mm²)

Contacts on reel (200 contacts per reel)

5159.027.02.32 (0.14 – 0.5mm²)
5159.027.02.33 (0.75 – 1.5mm²)

assembly and termination tooling

mounting tools

Crimping tool with locator for single contacts

5106.013.02.02 (0.14 – 0.5 mm²)
5106.013.02.03 (0.75 – 1.5 mm²)

Crimping tool for contact reel

5106.013.05.02 (0.14 – 0.5 mm²)
5106.013.05.03 (0.75 – 1.5 mm²)

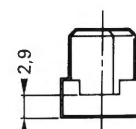
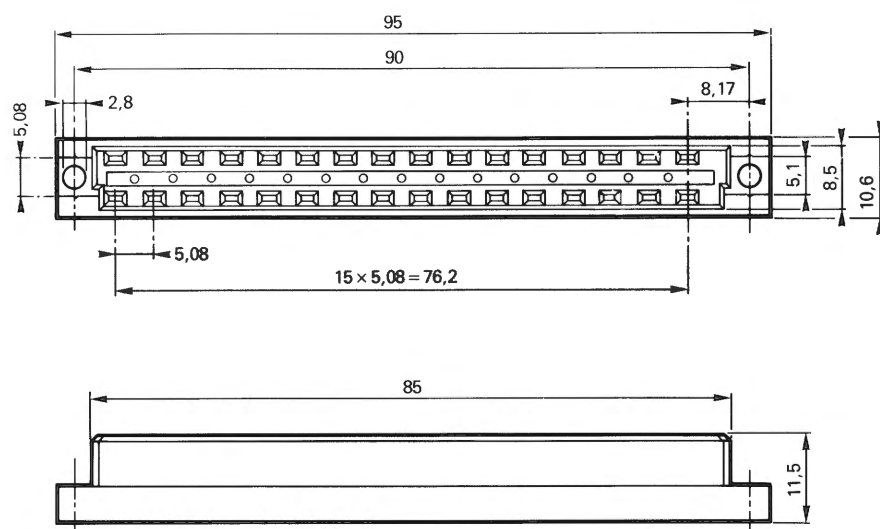
**Automatic strip/crimp-machine
for contact reel (on request) 5106.013.03.00**

tool insert (0.14 – 0.5mm²): 5106.013.03.02
(0.75 – 1.5mm²): 5106.013.03.03

Insertion tool for crimp-contacts 5106.013.01.02

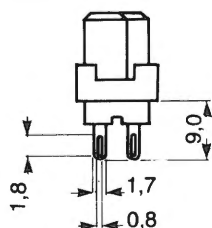
Extraction tool for crimp-contacts 5106.013.01.01

receptacles



ordering information

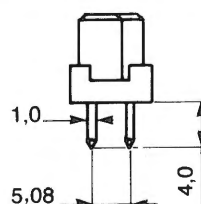
solder eyelet 11



No. of Contacts	Rows with Contacts	Min. No. of Ops.	DIN Class	Souriau Part Number
32	a c	500	1	5159.035.32.11.94.11
32	a c	400	2	5159.035.32.11.93.11
32	a c	50	3	5159.035.32.11.91.11

straight spill 12

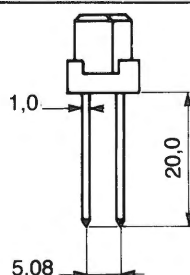
1mm x 1mm x 4mm



No. of Contacts	Rows with Contacts	Min. No. of Ops.	DIN Class	Souriau Part Number
32	a c	500	1	5159.035.32.12.94.11
32	a c	400	2	5159.035.32.12.93.11
32	a c	50	3	5159.035.32.12.91.11

wire wrap 15

1mm x 1mm x 22mm

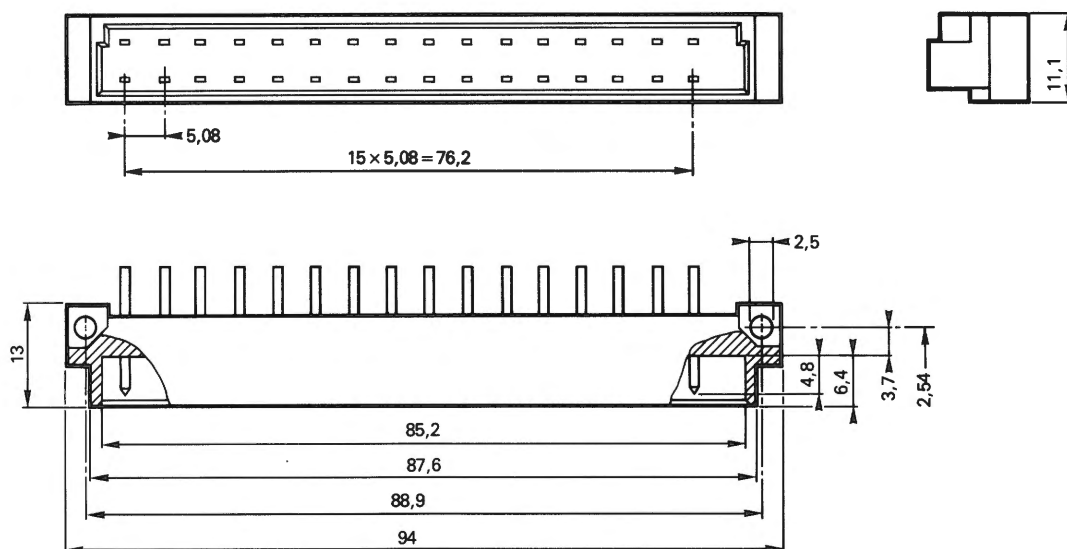


No. of Contacts	Rows with Contacts	Min. No. of Ops.	DIN Class	Souriau Part Number
32	a c	500	1	5159.035.32.15.94.11
32	a c	400	2	5159.035.32.15.93.11
32	a c	50	3	5159.035.32.15.91.11

32 contacts
5.08mm pitch

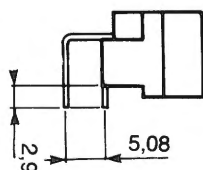
DIN 41612
series D

plugs



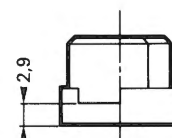
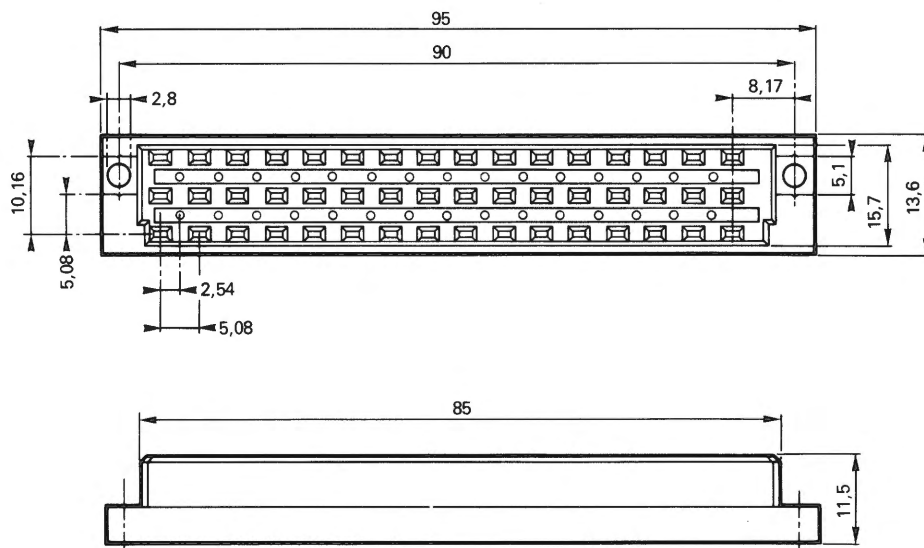
ordering information

angled spill
63



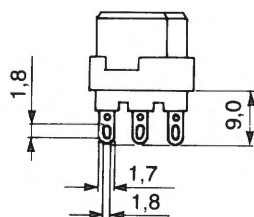
No. of Contacts	Rows with Contacts	Min. No. of Ops.	DIN Class	Souriau Part Number
32	a c	500	1	5159.035.32.63.94.11
32	a c	400	2	5159.035.32.63.54.11
32	a c	50	3	5159.035.32.63.34.11

receptacles



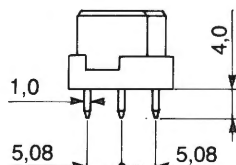
ordering information

solder eyelet 11



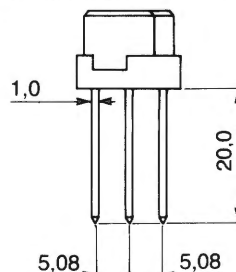
No. of Contacts	Rows with Contacts	Min. No. of Ops.	DIN Class	Souriau Part Number
48	a c e	500	1	5159.036.48.11.94.111
48	a c e	400	2	5159.036.48.11.93.111
48	a c e	50	3	5159.036.48.11.91.111

straight spill 12 1mm × 1mm × 4mm



No. of Contacts	Rows with Contacts	Min. No. of Ops.	DIN Class	Souriau Part Number
48	a c e	500	1	5159.036.48.12.94.111
48	a c e	400	2	5159.036.48.12.93.111
48	a c e	50	3	5159.036.48.12.91.111

wire wrap 15 1mm × 1mm × 20mm

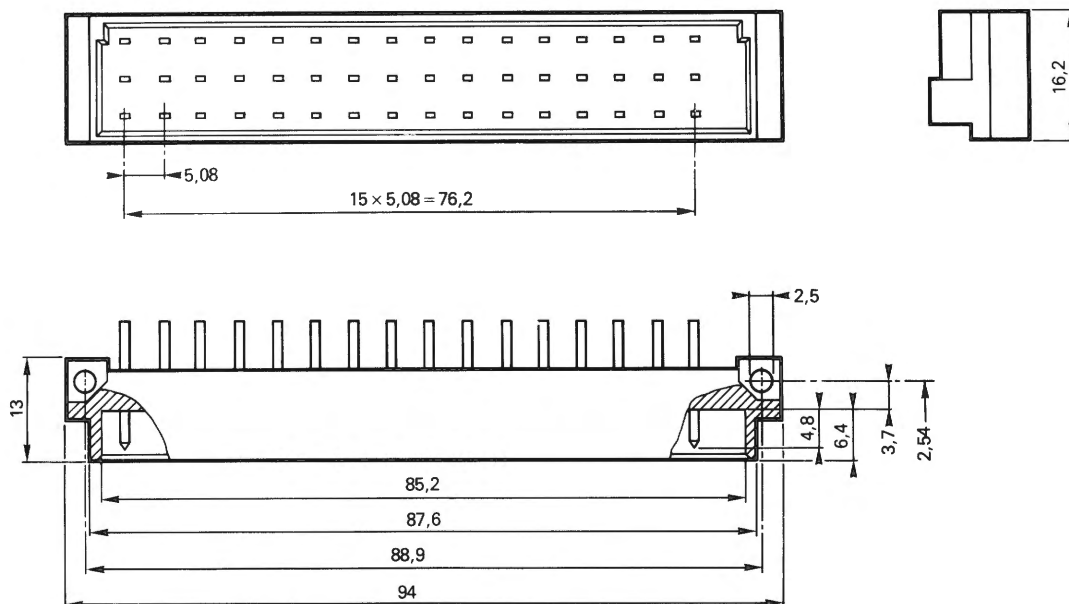


No. of Contacts	Rows with Contacts	Min. No. of Ops.	DIN Class	Souriau Part Number
48	a c e	500	1	5159.036.48.15.94.111
48	a c e	400	2	5159.036.48.15.93.111
48	a c e	50	3	5159.036.48.15.91.111

48 contacts
5.08mm pitch

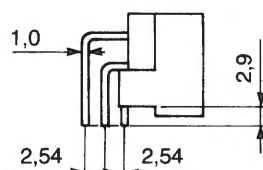
DIN 41612
series E

plugs



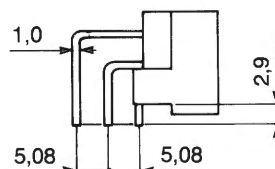
ordering information

angled spill
63
(2.54mm pitch)



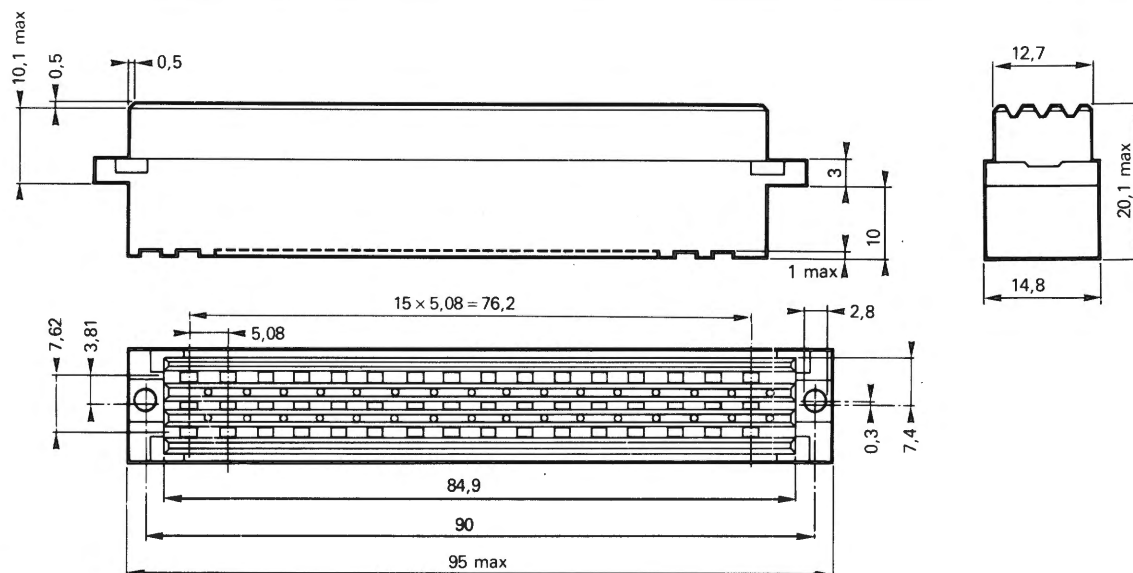
No. of Contacts	Rows with Contacts	Min. No. of Ops.	DIN Class	Souriau Part Number
48	a c e	500	1	5159.036.48.63.94.111
48	a c e	400	2	5159.036.48.63.54.111
48	a c e	50	3	5159.036.48.63.34.111

angled spill
63
(5.08mm pitch)



No. of Contacts	Rows with Contacts	Min. No. of Ops.	DIN Class	Souriau Part Number
48	a c e	500	1	5159.036.48.63.94.222
48	a c e	400	2	5159.036.48.63.54.222
48	a c e	50	3	5159.036.48.63.34.222

receptacles

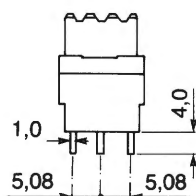


ordering information

straight spill

12

1mm × 1mm × 4mm

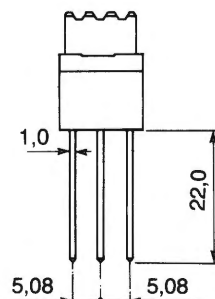


No. of Contacts	Rows with Contacts	Min. No. of Ops.	DIN Class	Souriau Part Number
48	z b d	500	1	5159.009.48.12.94.111
48	z b d	400	2	5159.009.48.12.93.111
48	z b d	50	3	5159.009.48.12.91.111
32	z b -	500	1	5159.009.32.12.94.110
32	z b -	400	2	5159.009.32.12.93.110
32	z b -	50	3	5159.009.32.12.91.110
32	z - d	500	1	5159.009.32.12.94.101
32	z - d	400	2	5159.009.32.12.93.101
32	z - d	50	3	5159.009.32.12.91.101

wire wrap

15

1mm × 1mm × 22mm

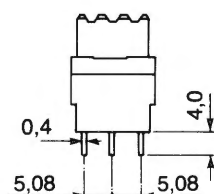


No. of Contacts	Rows with Contacts	Min. No. of Ops.	DIN Class	Souriau Part Number
48	z b d	500	1	5159.009.48.15.94.111
48	z b d	400	2	5159.009.48.15.93.111
48	z b d	50	3	5159.009.48.15.91.111
32	z b -	500	1	5159.009.32.15.94.110
32	z b -	400	2	5159.009.32.15.93.110
32	z b -	50	3	5159.009.32.15.91.110
32	z - d	500	1	5159.009.32.15.94.101
32	z - d	400	2	5159.009.32.15.93.101
32	z - d	50	3	5159.009.32.15.91.101

straight spill

18

0.4mm × 0.6mm × 4mm



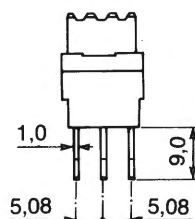
No. of Contacts	Rows with Contacts	Min. No. of Ops.	DIN Class	Souriau Part Number
48	z b d	500	1	5159.009.48.18.94.111
48	z b d	400	2	5159.009.48.18.93.111
48	z b d	50	3	5159.009.48.18.91.111
32	z b -	500	1	5159.009.32.18.94.110
32	z b -	400	2	5159.009.32.18.93.110
32	z b -	50	3	5159.009.32.18.91.110
32	z - d	500	1	5159.009.32.18.94.101
32	z - d	400	2	5159.009.32.18.93.101
32	z - d	50	3	5159.009.32.18.91.101

32/48 contacts
5.08mm pitch

DIN 41612
series F

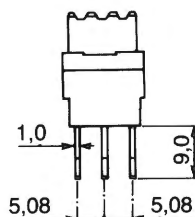
receptacles (cont.)

solder eyelet
open spill
11



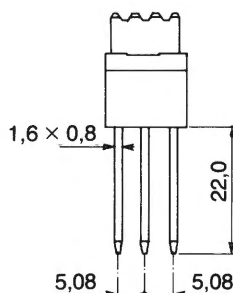
No. of Contacts	Rows with Contacts	Min. No. of Ops.	DIN Class	Souriau Part Number
48	z b d	500	1	5159.909.48.11.94.111
48	z b d	400	2	5159.909.48.11.93.111
48	z b d	50	3	5159.909.48.11.91.111
32	z b -	500	1	5159.909.32.11.94.110
32	z b -	400	2	5159.909.32.11.93.110
32	z b -	50	3	5159.909.32.11.91.110
32	z - d	500	1	5159.909.32.11.94.101
32	z - d	400	2	5159.909.32.11.93.101
32	z - d	50	3	5159.909.32.12.91.101

solder eyelet
closed spill
14



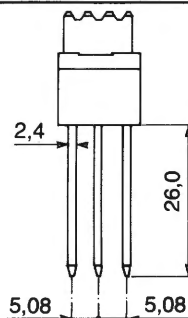
No. of Contacts	Rows with Contacts	Min. No. of Ops.	DIN Class	Souriau Part Number
48	z b d	500	1	5159.909.48.14.94.111
48	z b d	400	2	5159.909.48.14.93.111
48	z b d	50	3	5159.909.48.14.91.111
32	z b -	500	1	5159.909.32.14.94.110
32	z b -	400	2	5159.909.32.14.93.110
32	z b -	50	3	5159.909.32.14.91.110
32	z - d	500	1	5159.909.32.14.94.101
32	z - d	400	2	5159.909.32.14.93.101
32	z - d	50	3	5159.909.32.14.91.101

Termi-point®
16
1.6 × 0.8



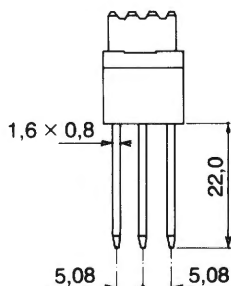
No. of Contacts	Rows with Contacts	Min. No. of Ops.	DIN Class	Souriau Part Number
48	z b d	500	1	5159.009.48.17.94.111
48	z b d	400	2	5159.009.48.17.93.111
48	z b d	50	3	5159.009.48.17.91.111
32	z b -	500	1	5159.009.32.17.94.110
32	z b -	400	2	5159.009.32.17.93.110
32	z b -	50	3	5159.009.32.17.91.110
32	z - d	500	1	5159.009.32.17.94.101
32	z - d	400	2	5159.009.32.17.93.101
32	z - d	50	3	5159.009.32.17.91.101

Termi-point®
17
2.4 × 0.8



No. of Contacts	Rows with Contacts	Min. No. of Ops.	DIN Class	Souriau Part Number
48	z b d	500	1	5159.009.48.16.94.111
48	z b d	400	2	5159.009.48.16.93.111
48	z b d	50	3	5159.009.48.16.91.111
32	z b -	500	1	5159.009.32.16.94.110
32	z b -	400	2	5159.009.32.16.93.110
32	z b -	50	3	5159.009.32.16.91.110
32	z - d	500	1	5159.009.32.16.94.101
32	z - d	400	2	5159.009.32.16.93.101
32	z - d	50	3	5159.009.32.16.91.101

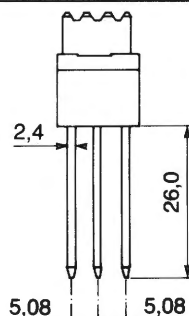
Termi-point®
16
1.6 × 0.8
gold plated version



No. of Contacts	Rows with Contacts	Min. No. of Ops.	DIN Class	Souriau Part Number
48	z b d	500	1	5159.009.48.16.51.111
32	z b -	500	1	5159.009.32.16.51.110
32	z - d	500	1	5159.009.32.16.51.101

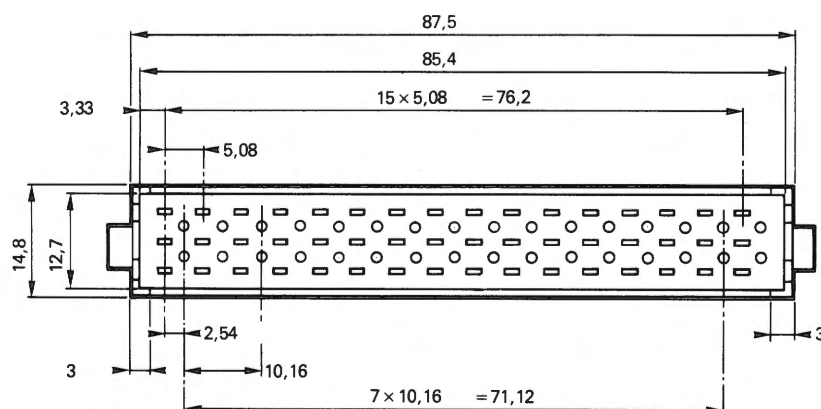
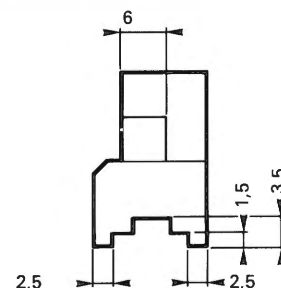
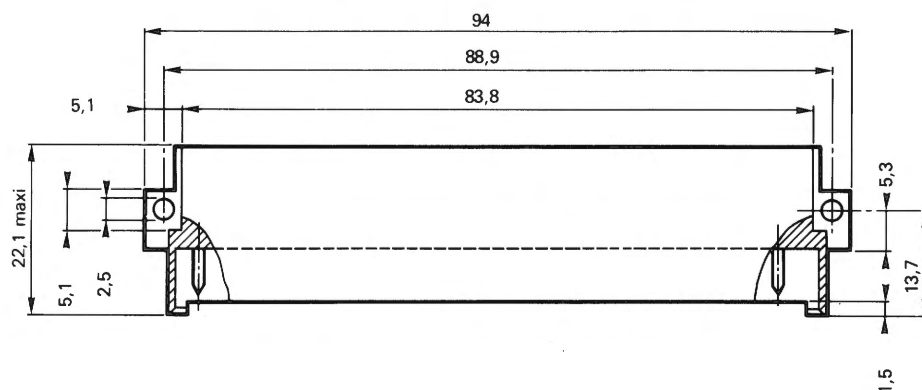
receptacles (cont.)

Termi-point®
17
2.4 × 0.8
gold plated version



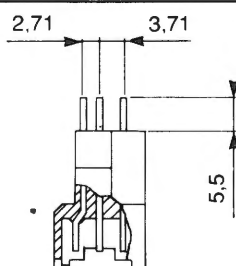
No. of Contacts	Rows with Contacts	Min. No. of Ops.	DIN Class	Souriau Part Number
48	z b d	500	1	5159.009.48.17.51.111
32	z b -	500	1	5159.009.32.17.51.110
32	z - d	500	1	5159.009.32.17.51.101

plugs



ordering information – 32 hole polarization

Solder eyelet
61
2.4 × 0.8
32 hole polarisation



No. of Contacts	Rows with Contacts	Min. No. of Ops.	DIN Class	Souriau Part Number
48	z b d	500	1	5159.009.48.61.94.111
48	z b d	400	2	5159.009.48.61.54.111
32	z b -	500	1	5159.009.32.61.94.110
32	z b -	400	2	5159.009.32.61.54.110
32	z - d	500	1	5159.009.32.61.94.101
32	z - d	400	2	5159.009.32.61.54.101

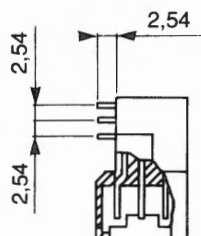
32/48 contacts
5.08mm pitch

DIN 41612
series F

plugs (cont.)

angled spill 63

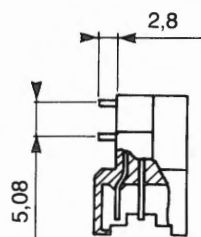
2.54mm row spacing
32 hole polarization



No. of Contacts	Rows with Contacts	Min. No. of Ops.	DIN Class	Souriau Part Number
48	z b d	500	1	5159.009.48.63.94.111
48	z b d	400	2	5159.009.48.63.54.111
48	z b d	50	3	5159.009.48.63.34.111
32	z b -	500	1	5159.009.32.63.94.110
32	z b -	400	2	5159.009.32.63.54.110
32	z b -	50	3	5159.009.32.63.34.110
32	z - d	500	1	5159.009.32.63.94.101
32	z - d	400	2	5159.009.32.63.54.101
32	z - d	50	3	5159.009.32.63.34.101

angled spill 63

5.08mm row spacing
32 hole polarization

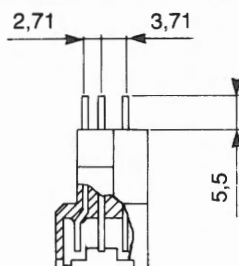


No. of Contacts	Rows with Contacts	Min. No. of Ops.	DIN Class	Souriau Part Number
32	z b -	500	1	5159.009.32.63.94.130
32	z b -	400	2	5159.009.32.63.54.130
32	z b -	50	3	5159.009.32.63.34.130

ordering information – 8 hole polarization

solder eyelet 21

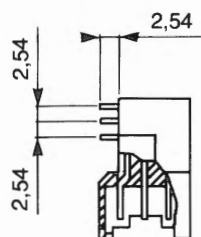
8 hole polarization



No. of Contacts	Rows with Contacts	Min. No. of Ops.	DIN Class	Souriau Part Number
48	z b d	500	1	5159.009.48.21.94.111
48	z b d	400	2	5159.009.48.21.54.111
32	z b -	500	1	5159.009.32.21.94.111
32	z b -	400	2	5159.009.32.21.54.110
32	z - d	500	1	5159.009.32.21.94.101
32	z - d	400	2	5159.009.32.21.54.101

angled spill 23

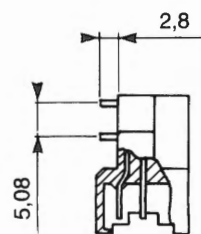
2.54mm row spacing
8 hole polarization



No. of Contacts	Rows with Contacts	Min. No. of Ops.	DIN Class	Souriau Part Number
48	z b d	500	1	5159.009.48.23.94.111
48	z b d	400	2	5159.009.48.23.54.111
48	z b d	50	3	5159.009.48.23.34.111
32	z b -	500	1	5159.009.32.23.94.110
32	z b -	400	2	5159.009.32.23.54.110
32	z b -	50	3	5159.009.32.23.34.110
32	z - d	500	1	5159.009.32.23.94.101
32	z - d	400	2	5159.009.32.23.54.101
32	z - d	50	3	5159.009.32.23.34.101

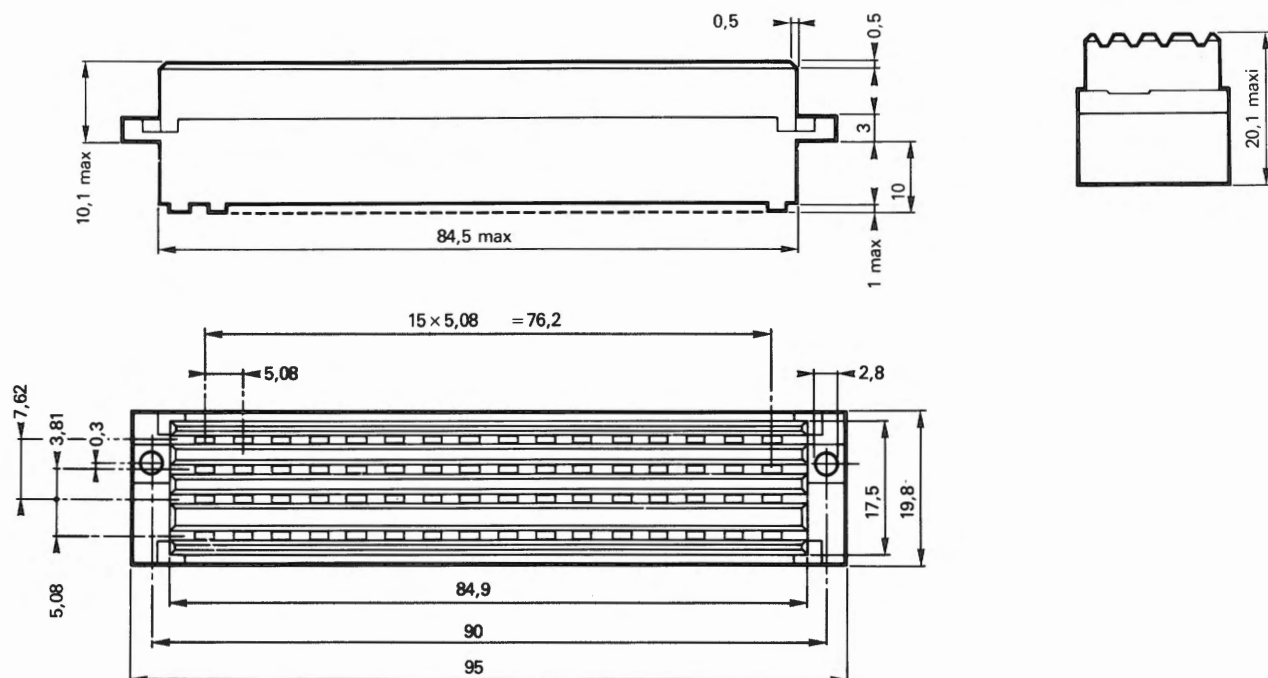
angled spill 23

5.08mm row spacing
8 hole polarization

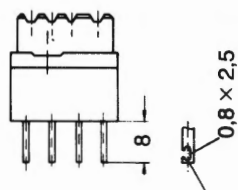


No. of Contacts	Rows with Contacts	Min. No. of Ops.	DIN Class	Souriau Part Number
32	z b -	500	1	5159.009.32.23.94.130
32	z b -	400	2	5159.009.32.23.54.130
32	z b -	50	3	5159.009.32.23.34.130

receptacles

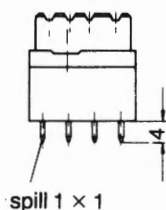


solder eyelet 11



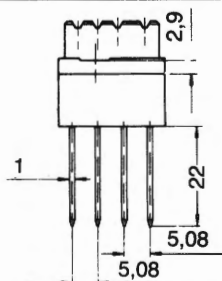
No. of Contacts	Rows with Contacts	Min. No. of Ops.	DIN Class	Souriau Part Number
64	z b d f	500	1	5159.009.64.11.94.1111
64	z b d f	400	2	5159.009.64.11.93.1111
64	z b d f	50	3	5159.009.64.11.91.1111

straight spill 12



No. of Contacts	Rows with Contacts	Min. No. of Ops.	DIN Class	Souriau Part Number
64	z b d f	500	1	5159.009.64.12.94.1111
64	z b d f	400	2	5159.009.64.12.93.1111
64	z b d f	50	3	5159.009.64.12.91.1111

wire wrap 15



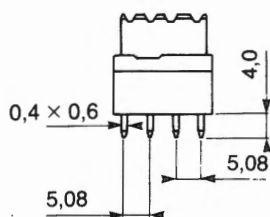
No. of Contacts	Rows with Contacts	Min. No. of Ops.	DIN Class	Souriau Part Number
64	z b d f	500	1	5159.009.64.15.94.1111
64	z b d f	400	2	5159.009.64.15.93.1111
64	z b d f	50	3	5159.009.64.15.91.1111

64 contacts
5.08mm pitch

DIN 41612
series G

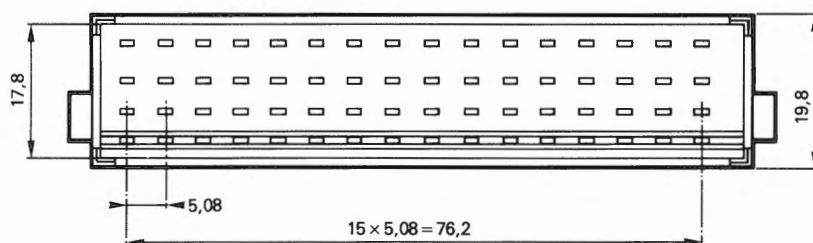
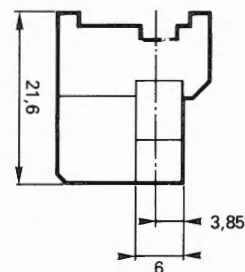
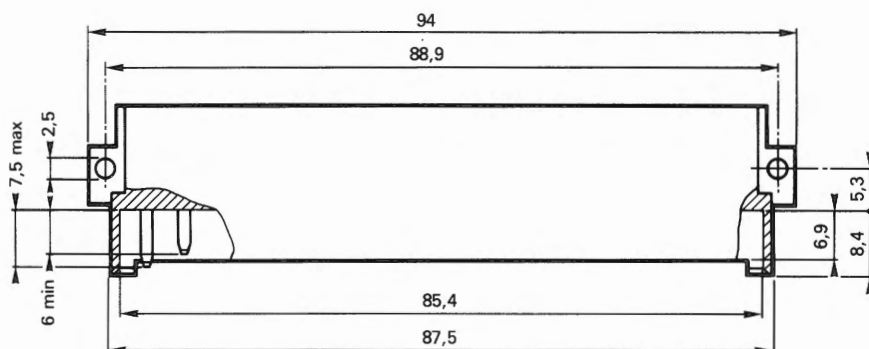
receptacles (cont.)

straight spill 18

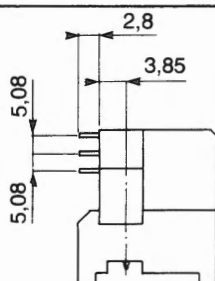


No. of Contacts	Rows with Contacts	Min. No. of Ops.	DIN Class	Souriau Part Number
64	z b d f	500	1	5159.009.64.18.94.1111
64	z b d f	400	2	5159.009.64.18.93.1111
64	z b d f	50	3	5159.009.64.18.91.1111

plugs



angled spill 63



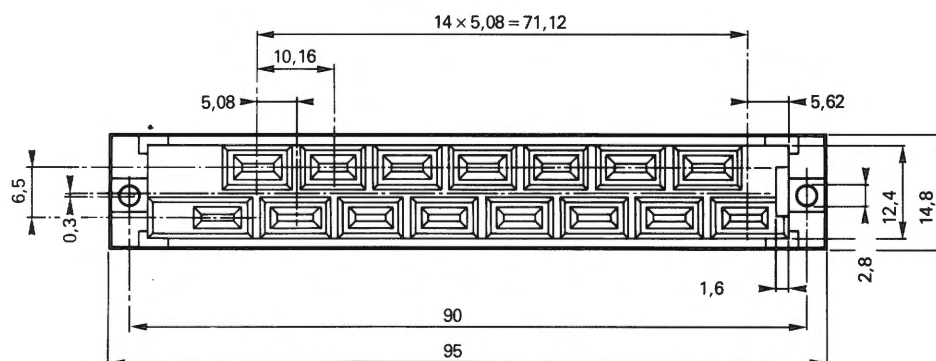
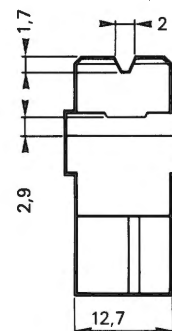
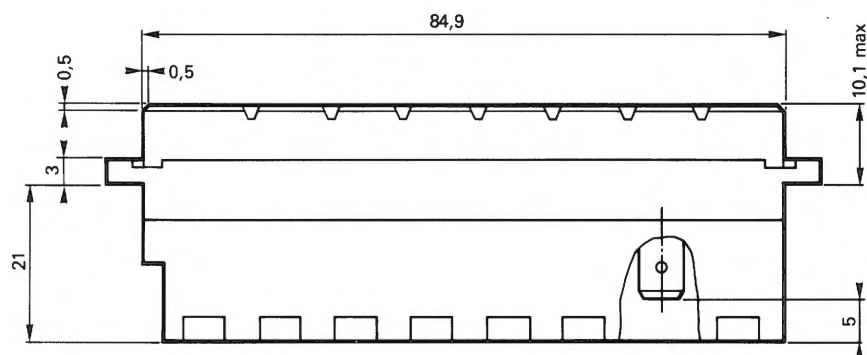
No. of Contacts	Rows with Contacts	Min. No. of Ops.	DIN Class	Souriau Part Number
64	z b d f	500	1	5159.009.64.63.94.1111
64	z b d f	400	2	5159.009.64.63.54.1111
64	z b d f	50	3	5159.009.64.63.34.1111

DIN 41612

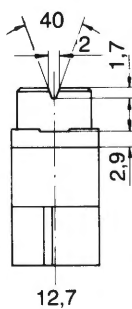
series H 15

souriau
series 5159

receptacles

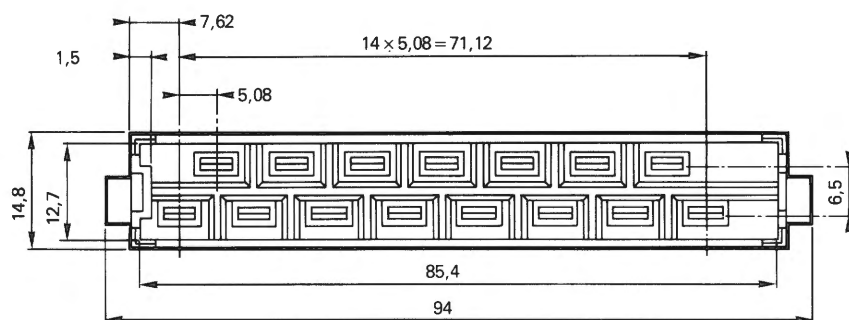
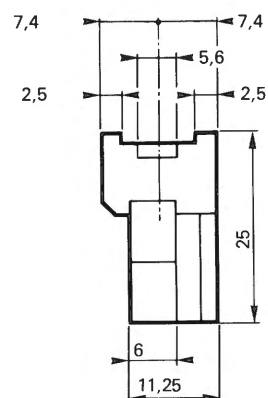
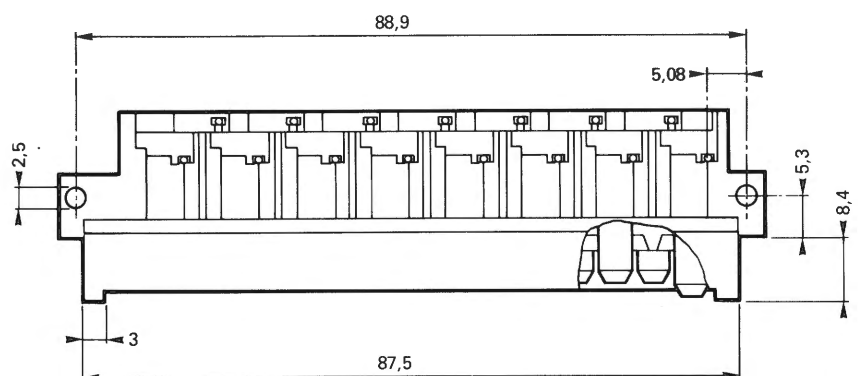


faston®
19

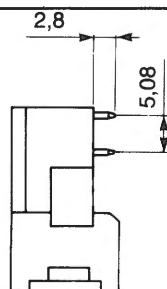


No. of Contacts	Rows with Contacts	Min. No. of Ops.	DIN Class	Souriau Part Number
15	z d	500	1	5159.029.15.19.620

plugs

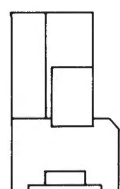


angled spill 23



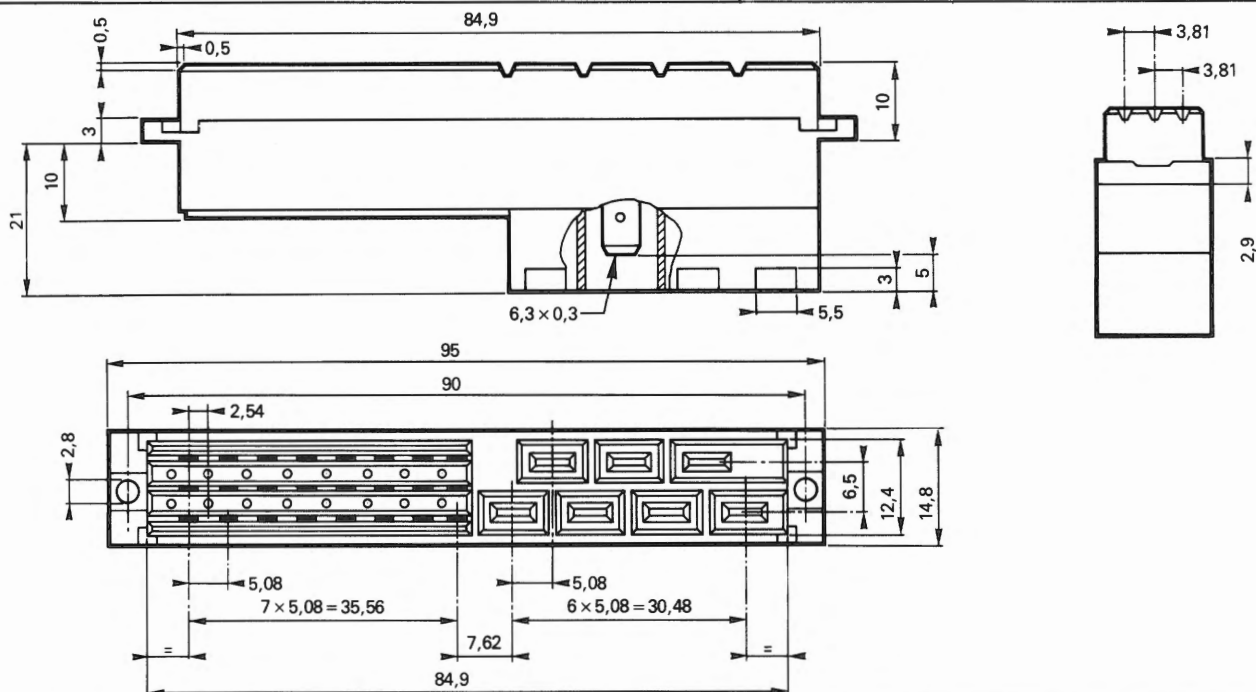
No. of Contacts	Rows with Contacts	Min. No. of Ops.	DIN Class	Souriau Part Number
15	z d	500	1	5159.029.15.23.660

faston® 29

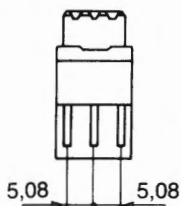


No. of Contacts	Rows with Contacts	Min. No. of Ops.	Class	Souriau Part Number
15	z d	500	1	5159.029.15.29.620

receptacles

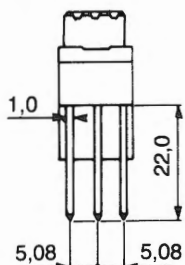


solder eyelet 11



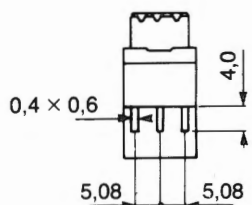
No. of Contacts	Rows with Contacts	Min. No. of Ops.	Souriau Part Number	Notes
24 +7	z b d z - d	500	5159.002.31.11.94.111	DIN related series
24 +7	z b d z - d	400	5159.002.31.11.93.111	DIN related series
24 +7	z b d z - d	50	5159.002.31.11.91.111	DIN related series

wire wrap 15



No. of Contacts	Rows with Contacts	Min. No. of Ops.	Souriau Part Number	Notes
24 +7	z b d z - d	500	5159.002.31.15.94.111	DIN related series
24 +7	z b d z - d	400	5159.002.31.15.93.111	DIN related series
24 +7	z b d z - d	50	5159.002.31.15.91.111	DIN related series

straight spill 18

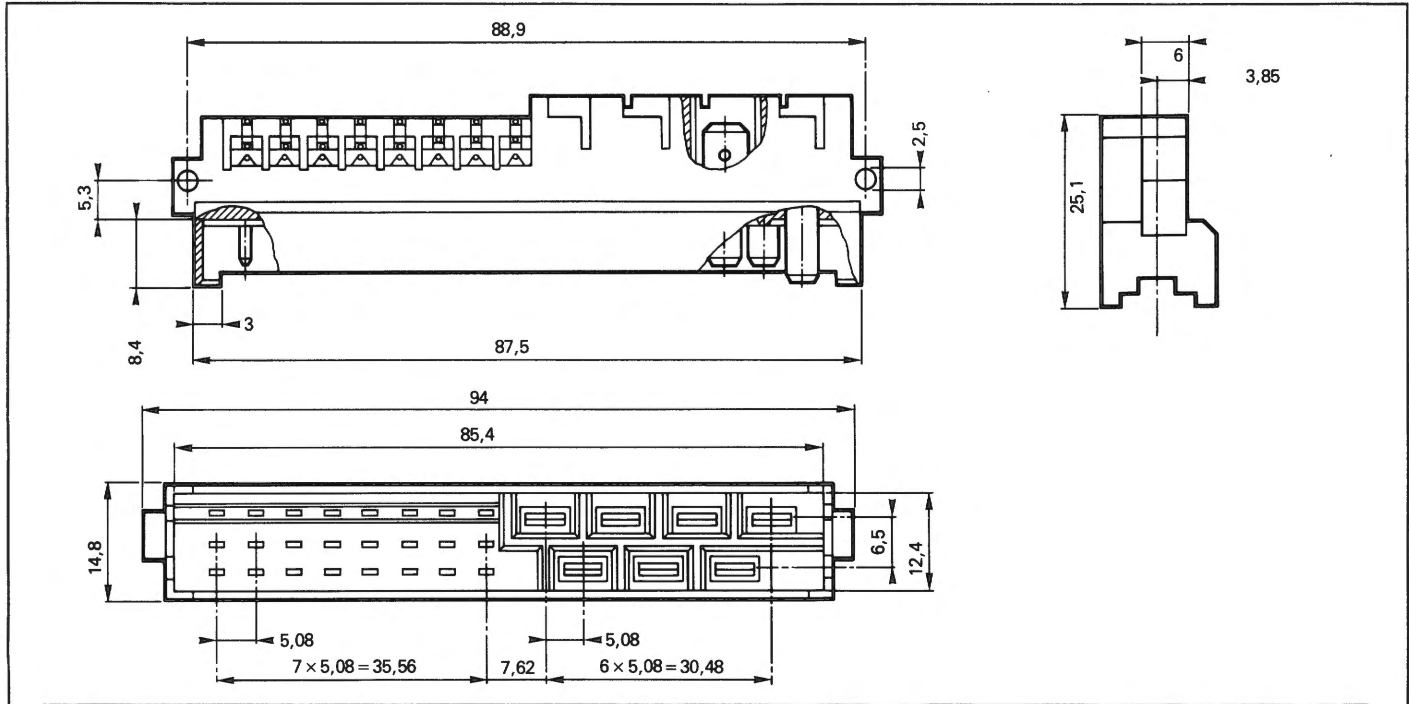


No. of Contacts	Rows with Contacts	Min. No. of Ops.	Souriau Part Number	Notes
24 +7	z b d z - d	500	5159.002.31.18.94.111	DIN related series
24 +7	z b d z - d	400	5159.002.31.18.93.111	DIN related series
24 +7	z b d z - d	50	5159.002.31.18.91.111	DIN related series

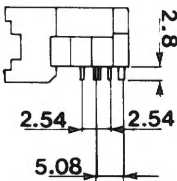
derived
'mixed' series

DIN 41612
connectors

plugs

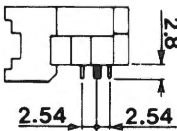


angled spill
high and medium
power contacts
23



No. of Contacts	Rows with Contacts	Min. No. of Ops.	Souriau Part Number	Notes
24 +7	z b d z - d	500	5159.002.31.23.94.111	DIN related series
24 +7	z b d z - d	400	5159.002.31.23.54.111	DIN related series
24 +7	z b d z - d	50	5159.002.31.23.34.111	DIN related series

faston high power contacts
angled spill
medium power contacts
24



No. of Contacts	Rows with Contacts	Min. No. of Ops.	Souriau Part Number	Notes
24 +7	z b d z - d	500	5159.002.31.24.94.111	DIN related series
24 +7	z b d z - d	400	5159.002.31.24.54.111	DIN related series
24 +7	z b d z - d	50	5159.002.31.24.34.111	DIN related series

Version also available with 3 power and 36 medium power contacts – contact us for further information.

Pressfit

technical characteristics of pressfit system

connection with rigid or compliant terminal posts

Materials – rigid terminal in copper alloy.
– compliant terminal in phosphor bronze.
– plating of pressfit contact area – SnPb or Ni + Au flash.

Insertion force per terminal post
– rigid 180N min.
– compliant

Extraction force per terminal post
– rigid 45N min.
– compliant

Insertion force of a 96 way connector
– with rigid terminal posts 18KN
– with compliant posts

Insertion force of a 64 way connector
– with rigid or compliant posts 16KN

Number of times terminal post replaceable without altering characteristics: rigid 3
compliant

Connection resistance 1mΩ

Electrical and environmental characteristics of the connectors conform to DIN 41612, BS9525-F0030, IEC 603-2, HE11

printed circuit boards (backpanel)

Materials – laminated epoxy glass
FR4 quality to BS4584 Pt3
Thickness of backpanel or board 2.4 and 3.2mm

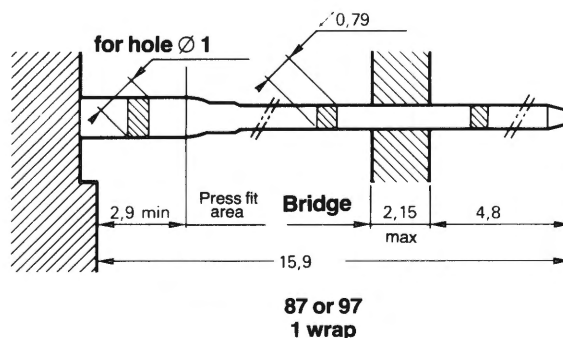
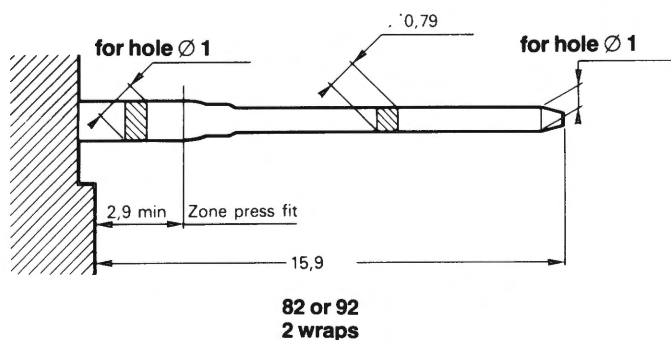
Hole dimensional detail
– drilling diameter before metalisation 1.15 ± 0.025

– thickness of electrolytic copper coating in the holes 0.020 min.
0.035 max.

– thickness of tin lead plating 0.007 min.
0.012 max

– diameter of hole after plating before fusion $1\text{mm} + 0.09$
– 0.06

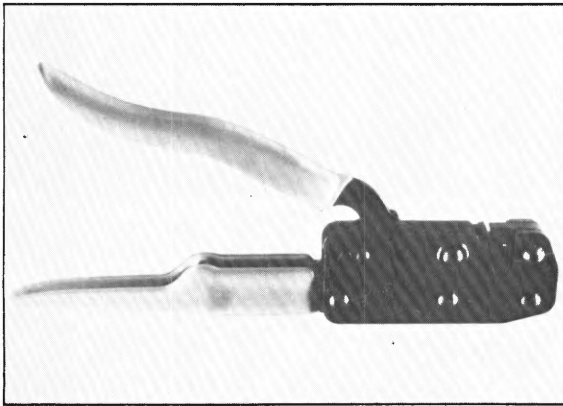
– diameter of hole after plating after fusion $1\text{mm} \pm 0.09$



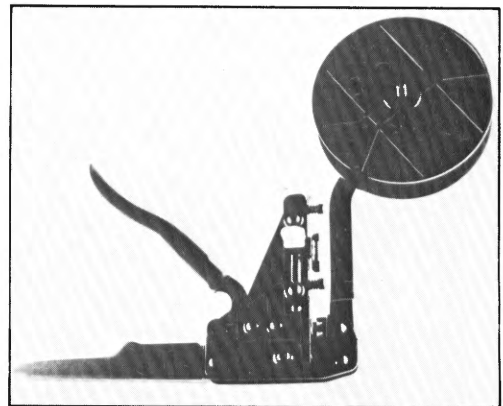
DIN 41612 connectors

tooling

crimp tools for connector series D, E and F contacts (see page 25)

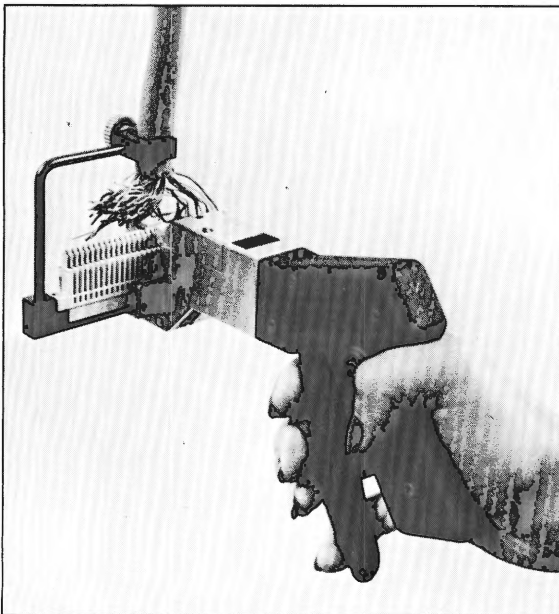


crimp tool with locator
5106.013.02.02 (0,14 – 0,5mm²)
5106.013.02.03 (0,75 – 1,5mm²)

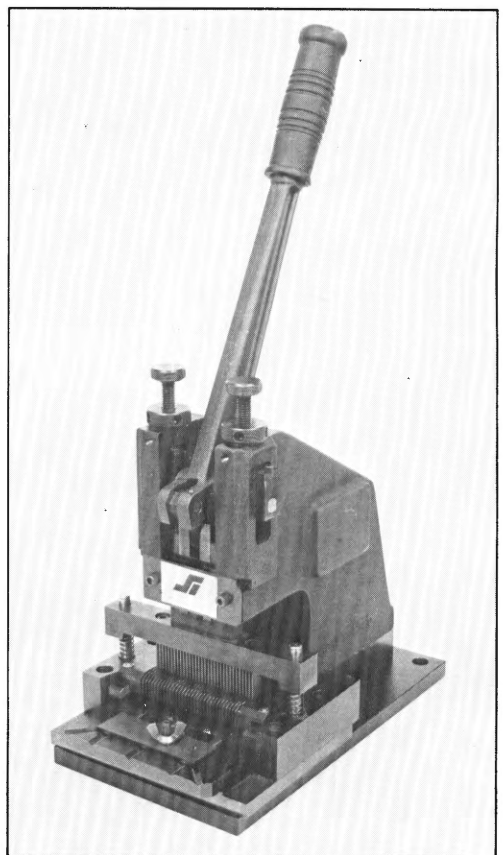


crimp tool for banded contacts
5106.013.05.02 (0,14 – 0,5mm²)
5106.013.05.03 (0,75 – 1,5mm²)

tooling for IDC (discrete wire) connectors (see page 20)



**hand tool for individual
wire termination**

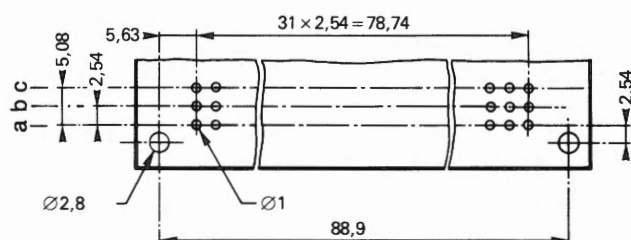


termination press
part no. 8609.2469

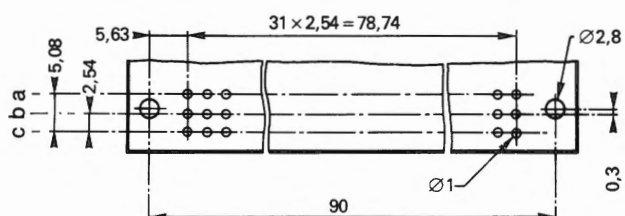
DIN 41612 connectors

card drilling

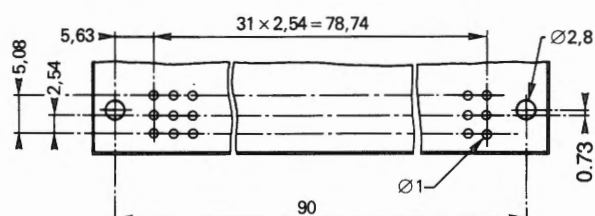
Series B, C, Q, R and HE11



Plug: series C, R and HE11
series B and Q

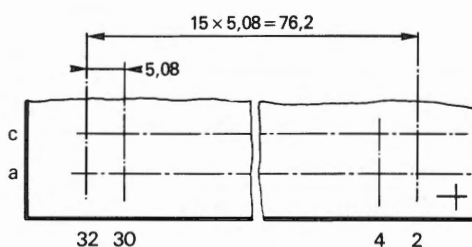


Receptacle: series C and R
series B and Q

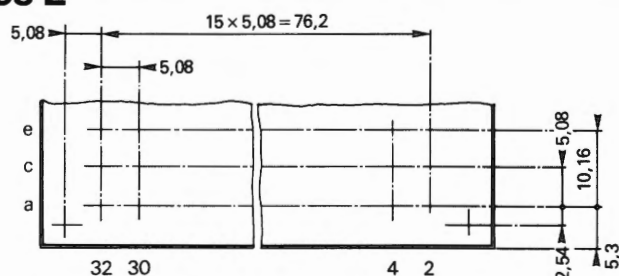


Receptacle: series HE11

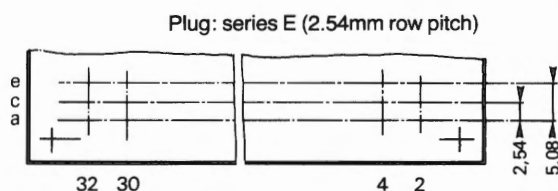
Series D



Series E



Plug: series E (5.08mm row pitch)



Plug: series E (2.54mm row pitch)

Technical drawing of a stepped shaft. The shaft has two main sections. The left section has a diameter of 32 and a length of 30. The right section has a diameter of 4 and a length of 2. The total length of the shaft is 88.9. The distance between the centers of the two sections is 15 x 5.08 = 76.2. The shaft has a central hole with a diameter of 5.08. The distance from the left end to the center of the hole is 5.08. The distance from the right end to the center of the hole is 5.08. The shaft has a total height of 5.3. The drawing is labeled with 'd' for diameter and 'z' for axial distance.

5,08 $31 \times 2,54 = 78,74$

2,54

d
b
z
f

32 30 4 2

32 30 4 2

Technical drawing of a stepped shaft with the following dimensions and features:

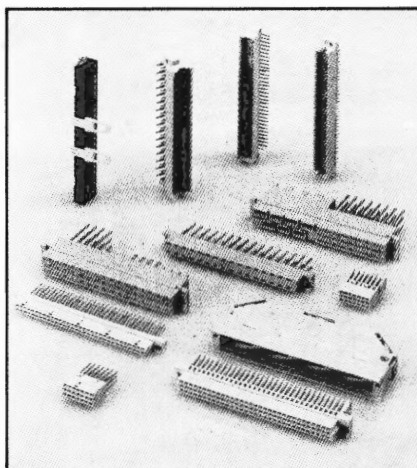
- Overall Length:** $14 \times 5,08 = 71,12$
- Step Widths (from left to right):** 32, 30, 28, 26, 12, 10, 8, 6, 4.
- Step Heights (from bottom to top):** 5,08, 5,08, 7,84.
- Coordinate System:** The origin is at the bottom-left corner, with the *d*-axis pointing upwards and the *z*-axis pointing to the right.
- Other Dimensions:** A distance of 5,08 is marked from the left edge to the first step, and another 5,08 is marked from the first step to the second step.

Technical drawing of a shaft with 32 holes. The shaft has a total length of 88,9. The holes are arranged in two rows, labeled 'd' and 'z'. The dimensions are as follows:

- Distance from the left end to the first hole: 7,62
- Distance between the first and second hole: 2,54
- Distance between the second and third hole: 2,8
- Distance between the third and fourth hole: 2,54
- Distance between the fourth and fifth hole: 2,8
- Distance between the fifth and sixth hole: 2,54
- Distance between the sixth and seventh hole: 2,8
- Distance between the seventh and eighth hole: 2,54
- Distance between the eighth and ninth hole: 2,8
- Distance between the ninth and tenth hole: 2,54
- Distance between the tenth and eleventh hole: 2,8
- Distance between the eleventh and twelfth hole: 2,54
- Distance between the twelfth and thirteenth hole: 2,8
- Distance between the thirteenth and fourteenth hole: 2,54
- Distance between the fourteenth and fifteenth hole: 2,8
- Distance between the fifteenth and sixteenth hole: 2,54
- Distance between the sixteenth and seventeenth hole: 2,8
- Distance between the seventeenth and eighteenth hole: 2,54
- Distance between the eighteenth and nineteenth hole: 2,8
- Distance between the nineteenth and twentieth hole: 2,54
- Distance between the twentieth and twenty-first hole: 2,8
- Distance between the twenty-first and twenty-second hole: 2,54
- Distance between the twenty-second and twenty-third hole: 2,8
- Distance between the twenty-third and twenty-fourth hole: 2,54
- Distance between the twenty-fourth and twenty-fifth hole: 2,8
- Distance between the twenty-fifth and twenty-sixth hole: 2,54
- Distance between the twenty-sixth and twenty-seventh hole: 2,8
- Distance between the twenty-seventh and twenty-eighth hole: 2,54
- Distance between the twenty-eighth and twenty-ninth hole: 2,8
- Distance between the twenty-ninth and thirtieth hole: 2,54
- Distance between the thirtieth and thirty-first hole: 2,8
- Distance between the thirty-first and thirty-second hole: 2,54
- Distance from the thirty-second hole to the right end: 2,54
- Distance from the left end to the first hole: $7 \times 5,08 = 35,56$
- Distance between the first and second hole: 10,16
- Distance between the second and third hole: 1,6
- Distance between the third and fourth hole: 5,08
- Distance between the fourth and fifth hole: 5,08
- Distance between the fifth and sixth hole: 5,08
- Distance between the sixth and seventh hole: 5,08
- Distance between the seventh and eighth hole: 5,08
- Distance between the eighth and ninth hole: 5,08
- Distance between the ninth and tenth hole: 5,08
- Distance between the tenth and eleventh hole: 5,08
- Distance between the eleventh and twelfth hole: 5,08
- Distance between the twelfth and thirteenth hole: 5,08
- Distance between the thirteenth and fourteenth hole: 5,08
- Distance between the fourteenth and fifteenth hole: 5,08
- Distance between the fifteenth and sixteenth hole: 5,08
- Distance between the sixteenth and seventeenth hole: 5,08
- Distance between the seventeenth and eighteenth hole: 5,08
- Distance between the eighteenth and nineteenth hole: 5,08
- Distance between the nineteenth and twentieth hole: 5,08
- Distance between the twentieth and twenty-first hole: 5,08
- Distance between the twenty-first and twenty-second hole: 5,08
- Distance between the twenty-second and twenty-third hole: 5,08
- Distance between the twenty-third and twenty-fourth hole: 5,08
- Distance between the twenty-fourth and twenty-fifth hole: 5,08
- Distance between the twenty-fifth and twenty-sixth hole: 5,08
- Distance between the twenty-sixth and twenty-seventh hole: 5,08
- Distance between the twenty-seventh and twenty-eighth hole: 5,08
- Distance between the twenty-eighth and twenty-ninth hole: 5,08
- Distance between the twenty-ninth and thirtieth hole: 5,08
- Distance between the thirtieth and thirty-first hole: 5,08
- Distance between the thirty-first and thirty-second hole: 5,08
- Distance from the thirty-second hole to the right end: 5,08

DIN 41612

**souriau series
8609/5159**



SOURIAU

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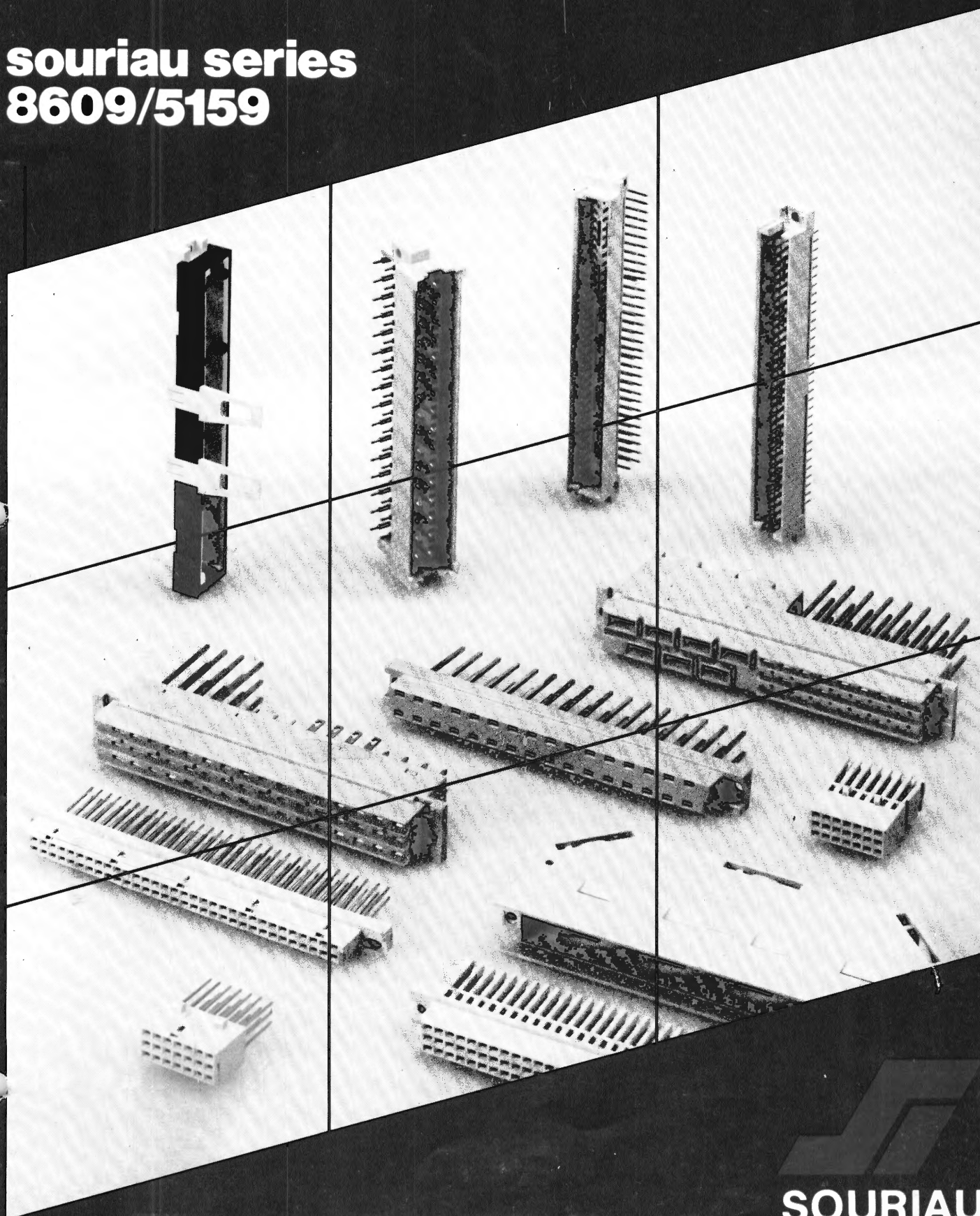
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DIN 41612 connectors

souriau series
8609/5159



SOURIAU

ref: 41612.485-E-UK

DIN 41612 connectors

souriau

introduction

The Souriau 8609/5159 family of connectors is designed to be compatible with the packaging concept of DIN 41494.

DIN 41494 details a standardised modular design for electronic systems. Sometimes referred to as the 19" rack system with Euro or double Euro sized printed wiring boards.

The printed wiring board connectors used with this packaging concept are controlled by DIN 41612.

The Souriau DIN 41612 range of connectors encompasses styles which are approved to International and National specifications as well as major customer type approvals, such as British Telecommunications connector type 222.

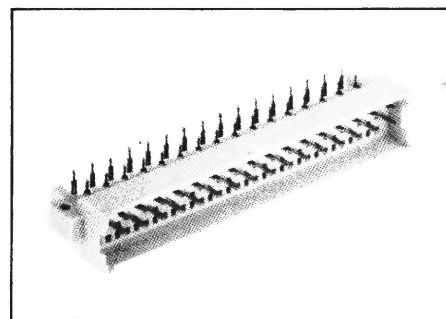
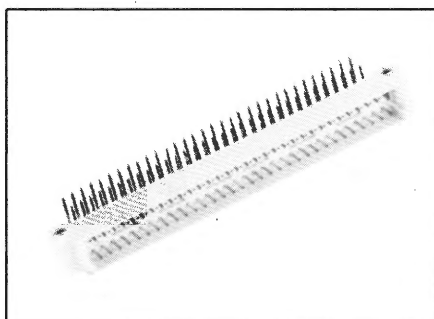
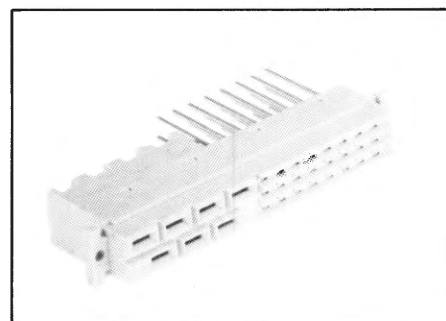
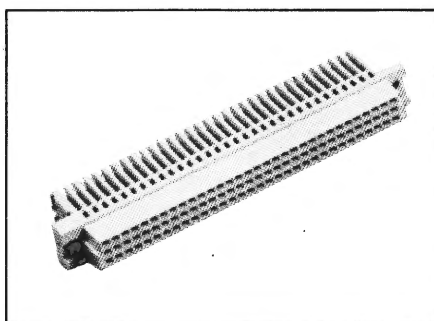
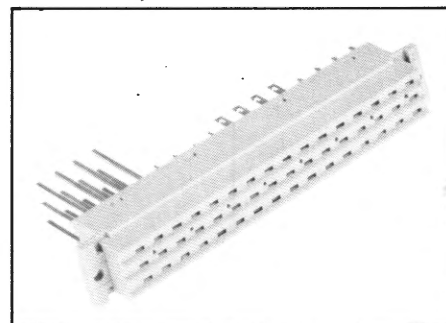
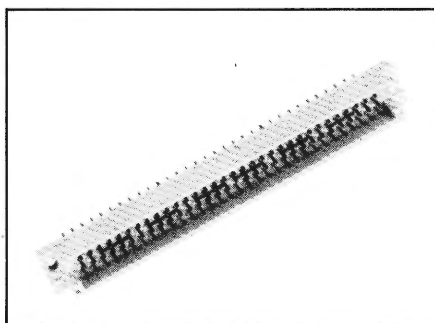
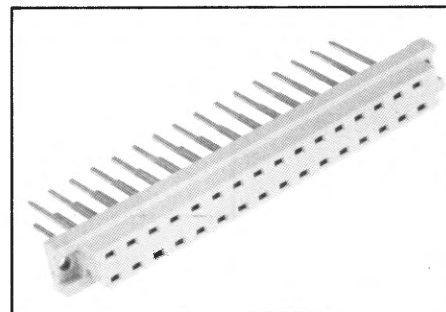
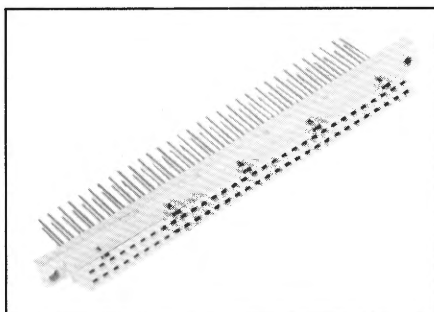
International Specifications:
IEC 603.2

National Specifications:
DIN 41612, classes 1, 2 & 3
VG 95324
MIL-C-55302
BS 9525 – F0004
BS 9525 – F0017

In addition to the series styles specified within DIN 41612 the Souriau 8609/5159 families offer many derivatives which have totally compatible interfaces thus ensuring that the Souriau range is able to meet most connector requirements based on the DIN 41494 packaging concept.

Derivatives include:

- Series C-I.D.C. for discrete wires up to 96 ways.
- $\frac{1}{4}$ length modules, based on 3×7 , 2.54mm matrix.
- Pressfit connectors.
- Series M with mixed medium and high power contacts.
- A wide range of accessories to complement the above.

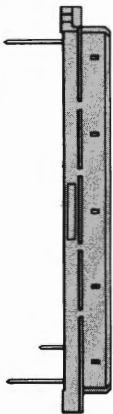
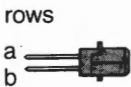
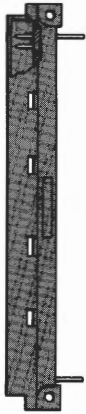
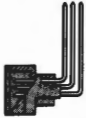
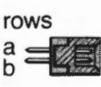
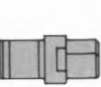
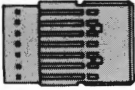


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DIN 41612

connectors

DIN 41612 sub-series	series B	series C	series Q	series R	series C-IDC	modules	
description	standard high density 2.54mm matrix	standard high density 2.54mm matrix	reverse high density 2.54mm matrix	reverse high density 2.54mm matrix	standard receptacle format 2.54mm matrix	max. 21 way on 2.54mm matrix	
Number of rows	2	3	2	3	3	3	
No. of contacts ¹⁾	32–64	32–64–96	32–64	32–64–96	64, 96	14, 21	
Pitch of contacts	2.54mm	2.54mm	2.54mm	2.54mm	2.54mm	2.54mm	
Contact rating 20°C	2A	2A	2A	2A	2A	2A	
Test voltage	1kV	1kV	1kV	1kV	1kV	1kV	
Insuln. resistance	$\geq 10^6 \text{M}\Omega$	$\geq 10^6 \text{M}\Omega$	$\geq 10^6 \text{M}\Omega$	$\geq 10^6 \text{M}\Omega$	$\geq 10^6 \text{M}\Omega$	$\geq 10^6 \text{M}\Omega$	
Contact resistance	$\leq 15 \text{m}\Omega$	$\leq 15 \text{m}\Omega$	$\leq 15 \text{m}\Omega$	$\leq 15 \text{m}\Omega$	$\leq 15 \text{m}\Omega$	$\leq 15 \text{m}\Omega$	
Contact plating	active zone gold	active zone gold	active zone gold	active zone gold	active zone gold	active zone gold	
termination	tin/lead	tin/lead	tin/lead	tin/lead	tin/lead	tin/lead	
solder (for wire)	■	■	■	■		■	
straight	■	■	■	■		■	
angled spill	■	■	■	■			
wire wrap	■	■	■	■		■	
crimp							
faston®							
termipoint®							
IDC					■	■	
1) other partially filled contact combinations can be supplied – please consult us for availability. ® “faston” and “termipoint” are registered trade names of AMP Inc.	 	 	 	 	 	   	
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