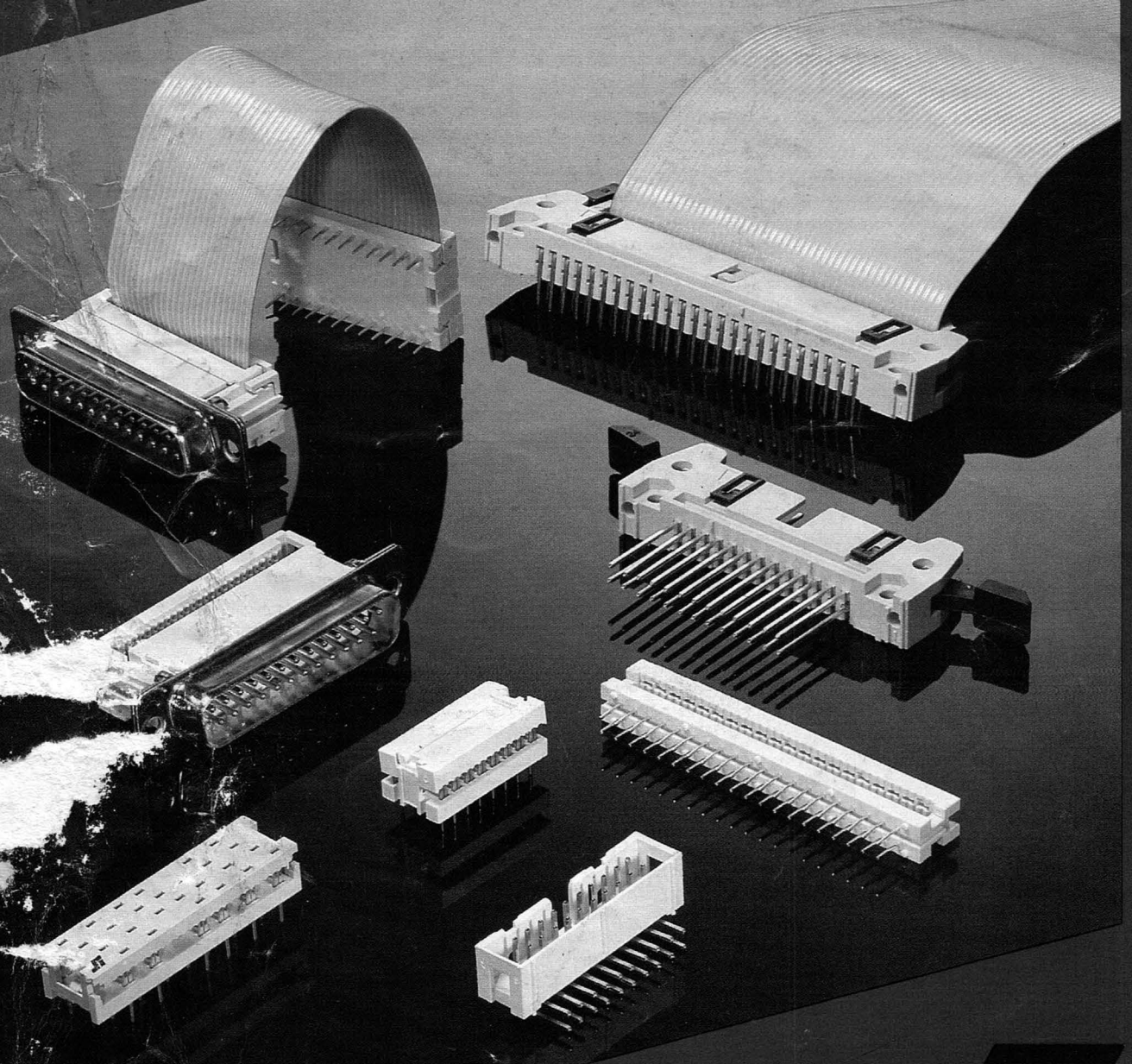


8613-8603-8657

flat cable connectors



SOURIAU

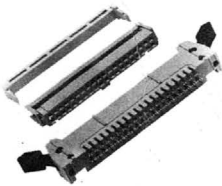
ref: IDC-0286-E-UK

contents

8613 connector	
– sockets	5
– headers	6 to 8
– low profile male box headers	9
8603 connector	
– transitions	10
– 2 row transitions	11
– DIP's	12
8657 D-sub connectors	13
cable harnesses	14
tooling	15

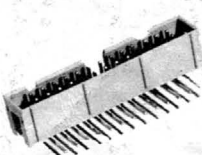
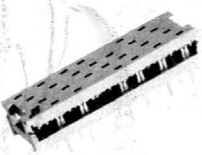
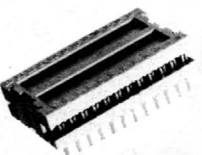
8613
headers and sockets
conform to
HE10-01 (F)
MIL-C-83503 (USA)
BS 9525 (GB)
BT 224 (GB)
DIN 41651

Insulator material		Polyester
Number of contacts		10-14-16-20-26- 34-40-50-60
Nominal current		1,5 A at 25°C
Contact pitch		2,54 mm
Insulation resistance		≥ 5.10 ⁹ ohm
Operating temperature		– 25°C + 105°C*
Contact material		M: copper alloy F: copper alloy
Contact Plating	Active zone	Gold over Nickel
	Termination zone	Tin over Nickel
Maximum voltage		1050 V r.m.s.
Terminations	straight spill	X
	angled spill	X
	mini wire wrap	X
	Insulation displacement (IDC)	X



* The tests on cabled connectors are carried out within the climatic range of the cable (–25°C + 105°C) within the limits of the climatic category of the connector: 8613 and 8603: –55°C + 125°C. 8657: –55°C + 105°C.

flat cable connectors

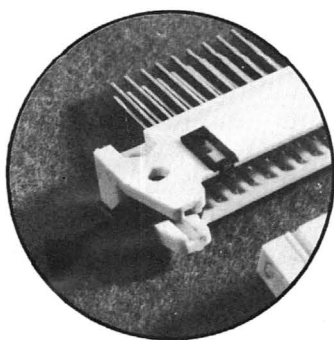
8613 reduced profile male headers	8603 transitions	8603 2-row transitions	8603 DIP's	8657 IDC D-sub connectors
DIN 41651				
Polyester	Polyester	Polyester	Polyester	Polyester
10-14-16-20-26- 34-40-50-60	10-16-20-26- 34-40-50-60	10-14-16-20-26- 34-40-50-60	8-14-16-24-40	09-15-25-37
1 A at 70°C	1 A at 70°C	1 A at 70°C	1 A at 70°C	1 A per contact
2,54 mm	2,54 mm	2,54 mm	2,54 mm	2,54 mm termination side
$\geq 1,10^{12}$ ohm	$\geq 1,10^9$ ohm	$\geq 1,10^{12}$ ohm	$\geq 1,10^9$ ohm	≥ 5000 M Ω
- 25°C + 105°C *	- 25°C + 105°C *	- 25°C + 105°C *	- 25°C + 105°C *	- 25°C + 105°C *
phosphor bronze	phosphor bronze	copper alloy	phosphor bronze	copper alloy
—				
Gold over Nickel	Tin over Nickel	Tin over Nickel	Tin over Nickel	Gold over Nickel
Tin over Nickel			Gold over Nickel	Tin over Nickel
1000 V r.m.s.	1050 V r.m.s.	1000 V r.m.s.	1050 V r.m.s.	1000 V r.m.s.
X	X	X	X	
X				
	X	X	X	X
				
9	10	11	12	13

8613

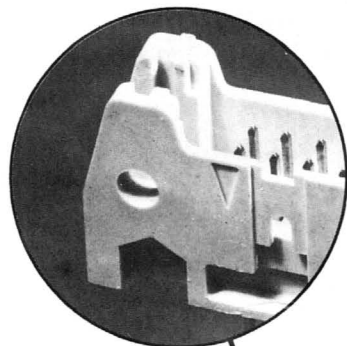
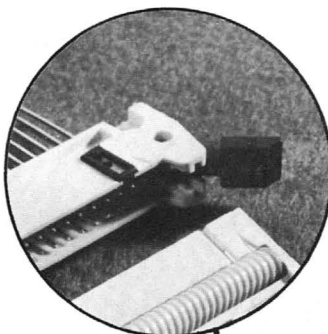
SOURIAU

**8613 type connectors have been approved to specifications
DIN 41651 and HE 1001**

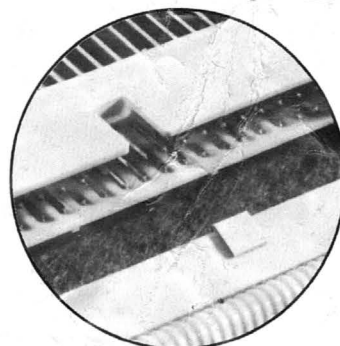
OPTION:
polarisation by
removable key



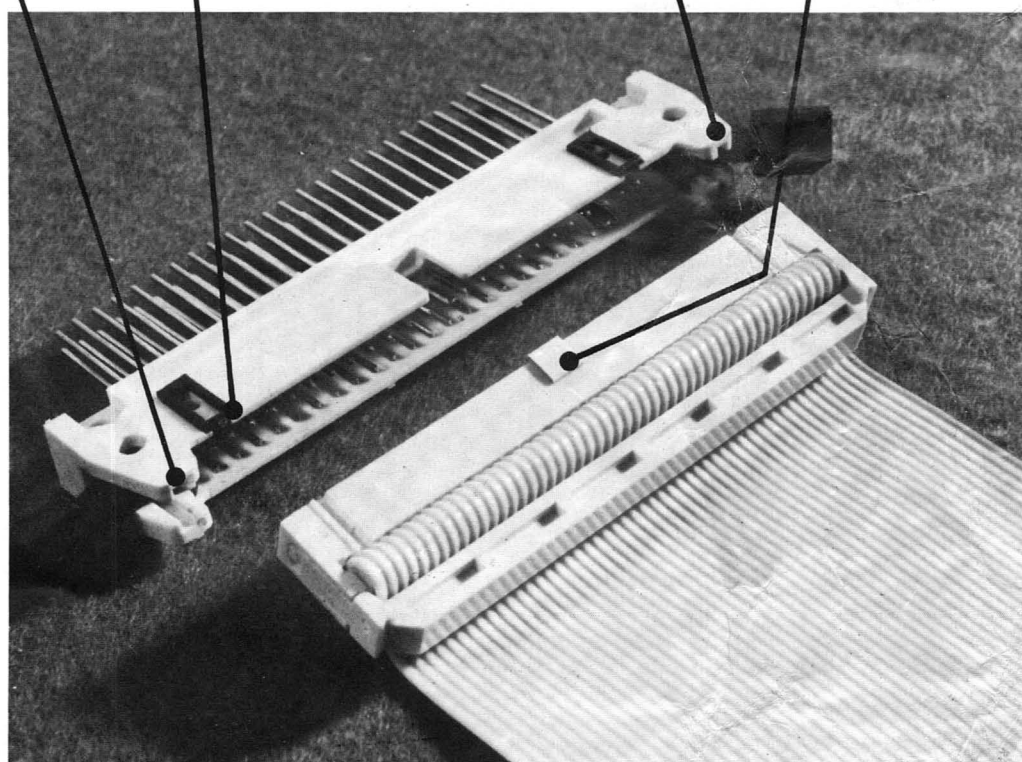
removable
locking levers
(long or short)



double skirt on
header to ensure
protection of
male contacts



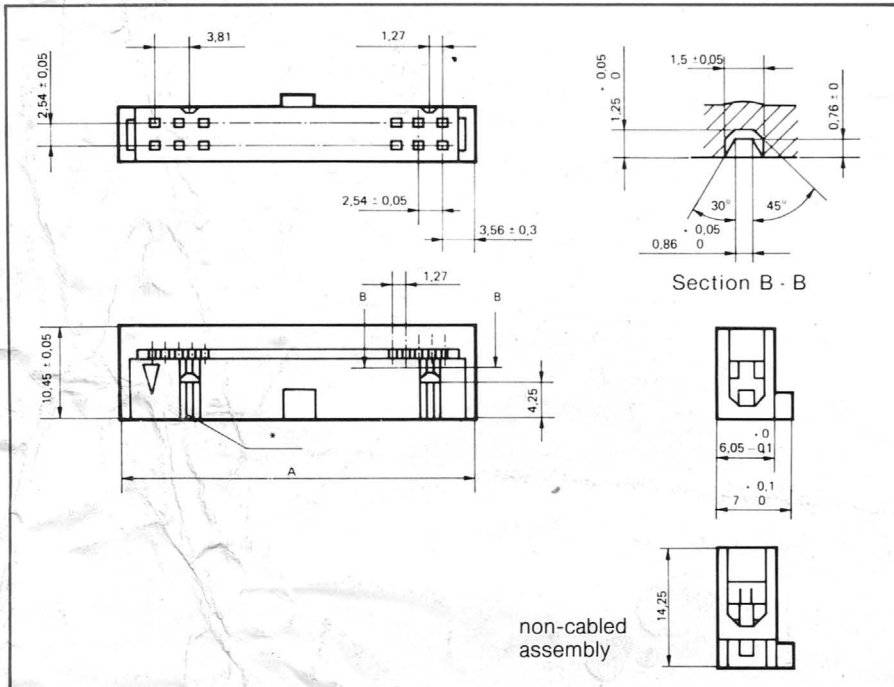
central
polarising boss



8613

sockets

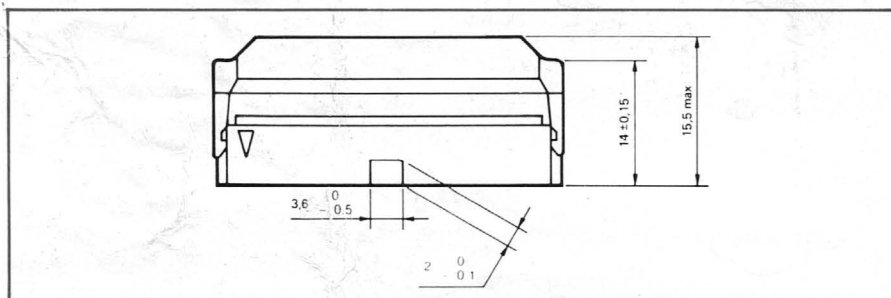
without strain relief clamp



* one removable polarisation key slot only on shells 10 and 14.

number of contacts	A
10	17,20 ^{+0,15} _{-0,1}
14	22,28 ^{+0,15} _{-0,1}
16	24,82 ^{+0,15} _{-0,1}
20	29,90 ^{+0,15} _{-0,1}
26	37,52 ^{+0,15} _{-0,1}
34	47,68 ^{+0,15} _{-0,1}
40	55,30 ^{+0,15} _{-0,1}
50	68,00 ^{+0,15} _{-0,1}
60	80,80 ^{+0,15} _{-0,1}

with strain relief clamp



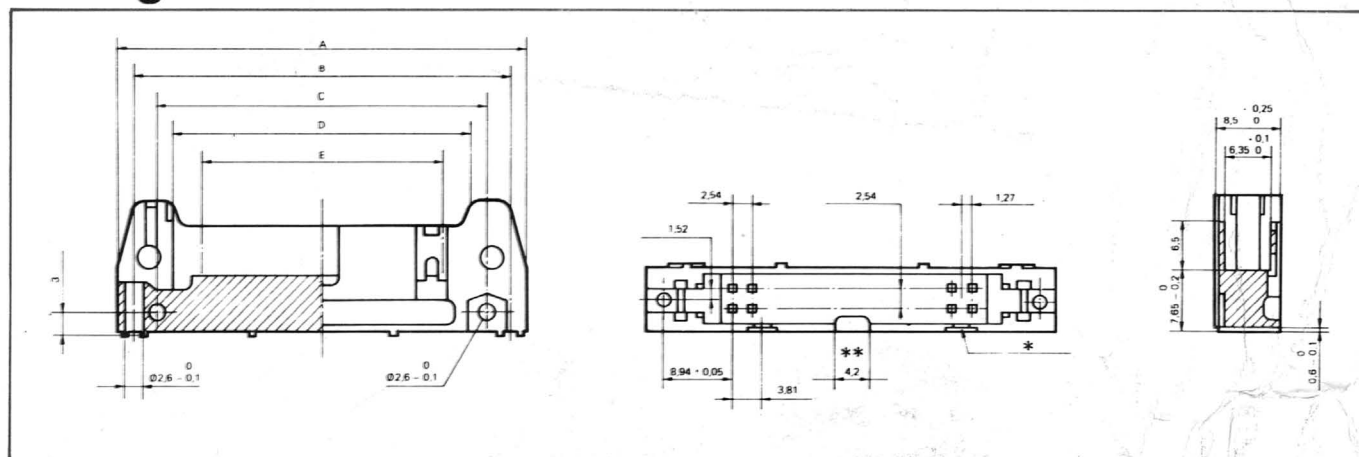
Note: For sockets without central polarising boss, please contact us.

Shell type	Clamp part no. (100 per bag)
10	8613-6010
14	8613-6014
16	8613-6016
20	8613-6020
26	8613-6026
34	8613-6034
40	8613-6040
50	8613-6050
60	8613-6060

ordering information

series	8613 - 0 □ □ - 3 □ - 30 - 3 4 5 - 000
number of contacts	10-14-16-20-26-34-40-50-60
strain relief clamp	without clamp: 30 with clamp: 31
termination:	insulation displacement 28 gauge
	3 grey polyester insulator
4 connector classification	4 conforms to specification HE 10 01 & DIN 416 51 6 conforms to MIL-C-83503
5 contact pitch	2,54 mm
000 standard specification	

headers headers without locking levers



10 and 14 contact layouts

* 1 polarisation key only (located to right hand side of polarising slot)
(all sizes including 10 contact version have central polarising boss)

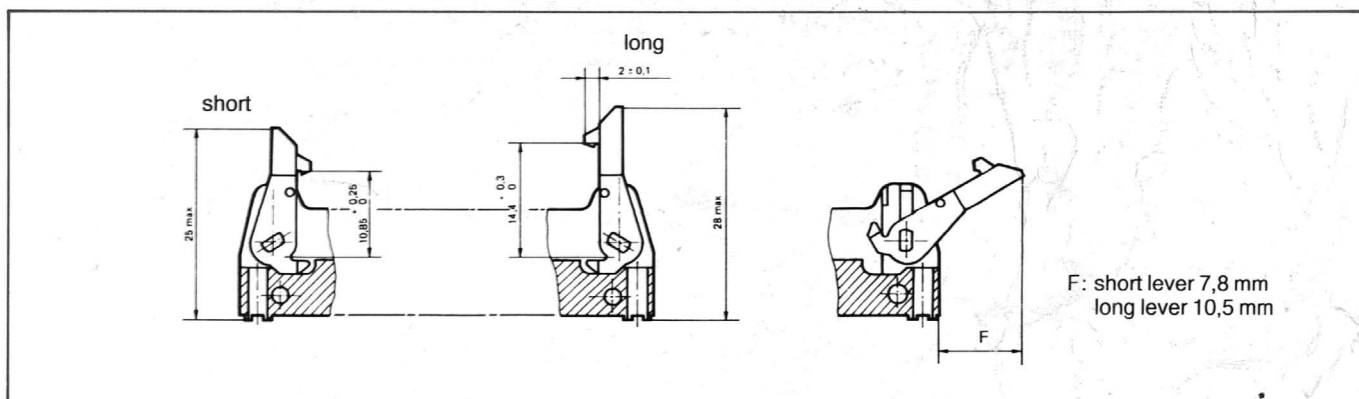
number of contacts	10	14	16	20	26	34	40	50	60
A $\begin{smallmatrix} +0,25 \\ -0 \end{smallmatrix}$	32,00	37,08	39,62	44,70	52,32	62,48	70,10	82,80	95,70
B $\pm 0,1$	27,94	33,02	35,56	40,64	48,26	58,42	66,04	78,74	91,40
C $\pm 0,1$	21,84	26,92	29,46	34,54	42,16	52,32	59,94	72,64	85,34
D $\begin{smallmatrix} +0,13 \\ -0 \end{smallmatrix}$	17,91	22,99	25,53	30,61	38,23	48,39	56,01	68,71	81,50
E $\pm 0,05$	10,16	15,24	17,18	22,86	30,48	40,64	48,26	60,96	73,66

header with locking lever

Locking lever part numbers

Long black levers 8613-6000 (100 per bag) – Long grey levers 8613-6007 (100 per bag)

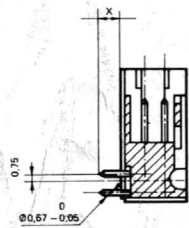
Short black levers 8613-6008 (100 per bag) – Short grey levers 8613-6009 (100 per bag)



headers

terminations

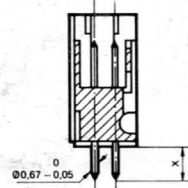
card drilling



angled
spills

$$13: X = 3,86 + 0,66_0$$

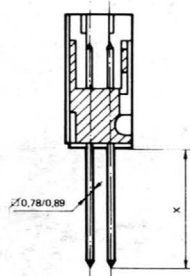
$$23: X = 2,8 \pm 0,2$$



straight
spills

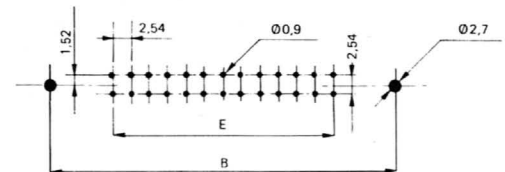
$$14: X = 4,15 + 0,28_0$$

$$24: X = 2,90 \pm 0,2$$

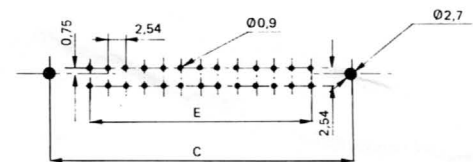


wire wrap

$$15: X = 15,5 \pm 0,25$$



straight spill
termination



angled spill
termination

ordering information

series **8613 - 0** ☐ ☐ - ☐ ☐ - ☐ ☐ ☐ - ☐ ☐ - ☐ ☐ ☐ ☐ - **000 E₁**

number of contacts
10-14-16-20-26-34-40-50-60

2 header with central polarising (except size 10)
8 size 10: central polarising + polarising key

0 without lever
1 fitted with long levers
2 fitted with short levers

termination	13 angled spill	23 short angled spill
	14 straight spill	24 short straight spill
	15 wire wrap	

3 grey polyester insulator

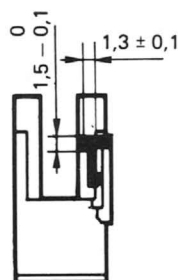
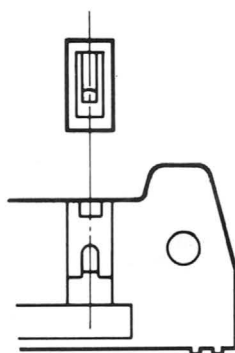
connector classification
4 HE 10 01 + DIN 41651 approved
6 MIL-C-83503 approved

5 pitch = 2,54 mm

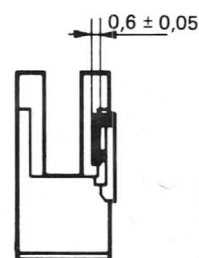
000 standard specification – gold over nickel (active zone)
000E₁ tin plated terminations

headers

polarising keys



double depth key
– black 8613-4102
– grey 8613-4106



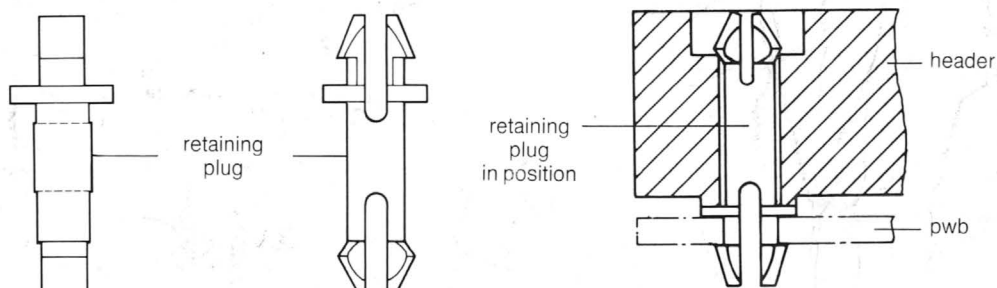
single depth key
– black 8613-4104
– grey 8613-4105

Polarising keys are supplied in bags of 100 bunches of 4 key each (ie. 400 keys per bag)

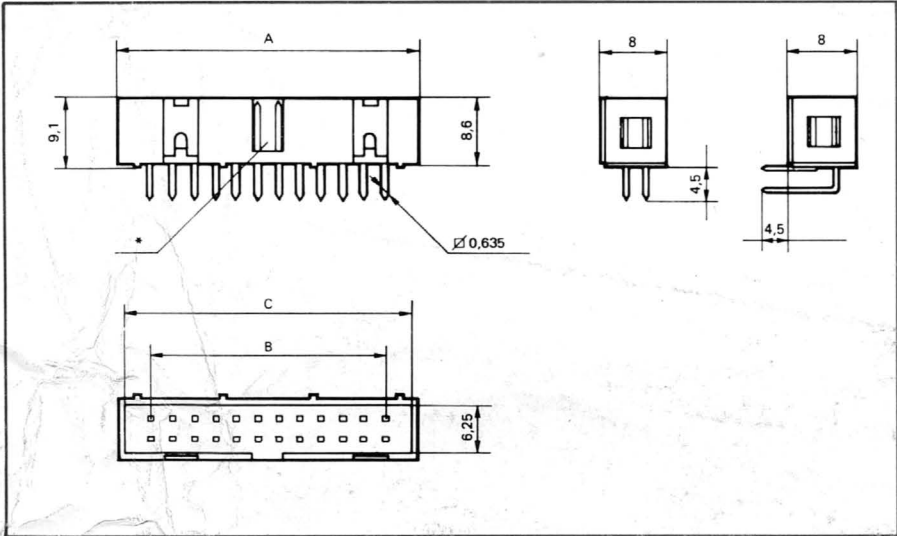
bag of 100 double depth keys (black)	8613-6003
bag of 100 single depth keys (black)	8613-6004
bag of 100 double depth keys (grey)	8613-6006
bag of 100 single depth keys (grey)	8613-6005

mounting

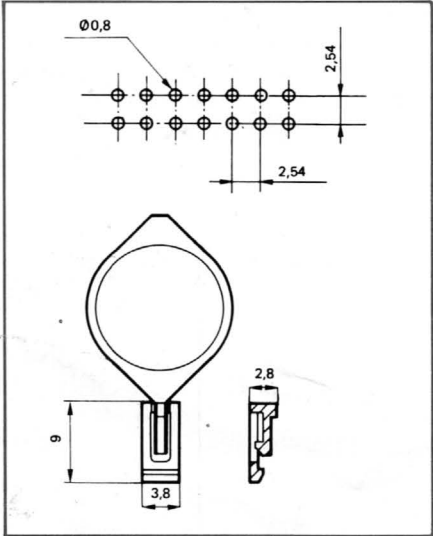
Harpoon tipped plugs located through the mounting holes hold the header in position for the wave soldering process – applicable to angled spill termination. Consult us for more information.



low profile
male box
headers
dimensions



card drilling



number of contacts	10	14	16	20	26	34	40	50	60
A	19,50	24,60	27,20	32,30	39,90	50,10	57,80	70,50	83,30
B	10,16	15,24	17,78	22,86	30,48	40,64	48,26	60,96	73,66
C	17,90	23,00	25,50	30,60	38,20	48,40	56,00	68,70	81,40

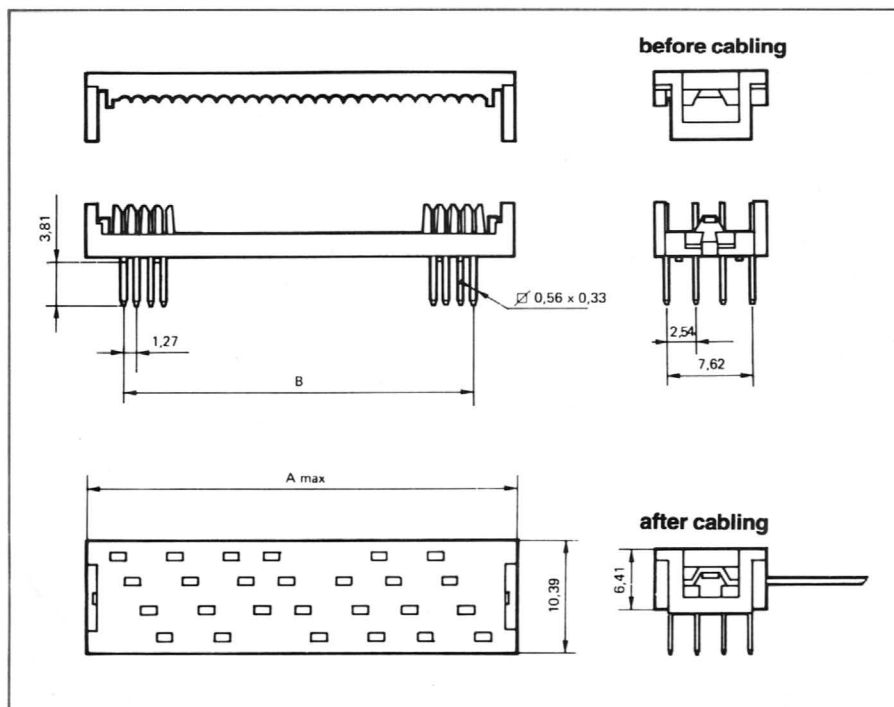
ordering information

series	8613	- 0			- 10	-			- 3	4	5	- 000 E1
number of contacts	10-14-20-26-34-40-50-60											
low profile male header without polarisation key												
termination	13 angled spill 14 straight spill											
polyester insulator												
plating: to HE 10 01 (FR)												
pitch: 2,54 mm												
000 E1: tin plated terminations												

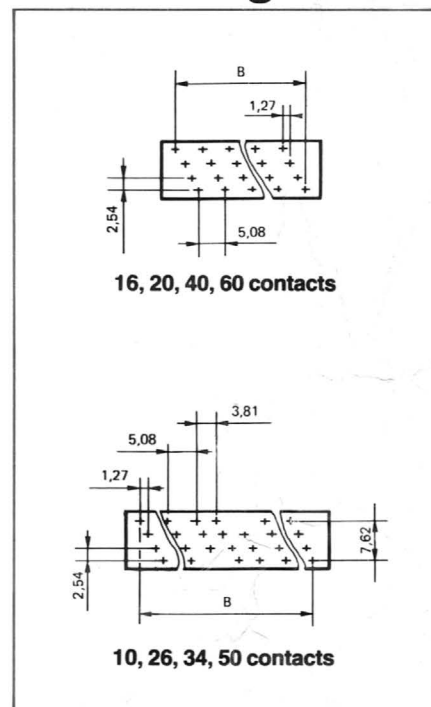
8603

4 row transitions

dimensions



card drilling

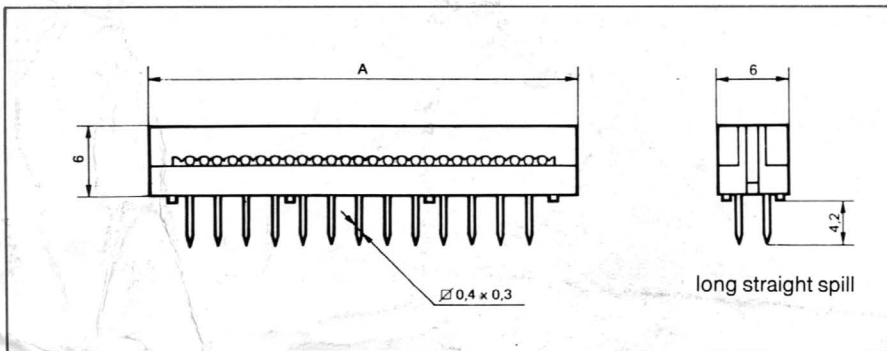


number of contacts	10	16	20	26	34	40	50	60
A	17,75	25,40	30,45	38,07	48,23	55,85	68,55	81,25
B	11,43	19,05	24,13	31,75	41,91	49,53	62,23	74,93

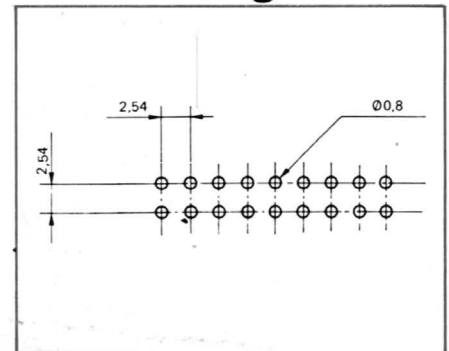
8603

2 row transitions

dimensions



card drilling



number of contacts	10	14	16	20	26	34	40	50	60
A	17,50	22,60	25,10	30,20	37,90	48,10	55,70	68,50	81,20

ordering information

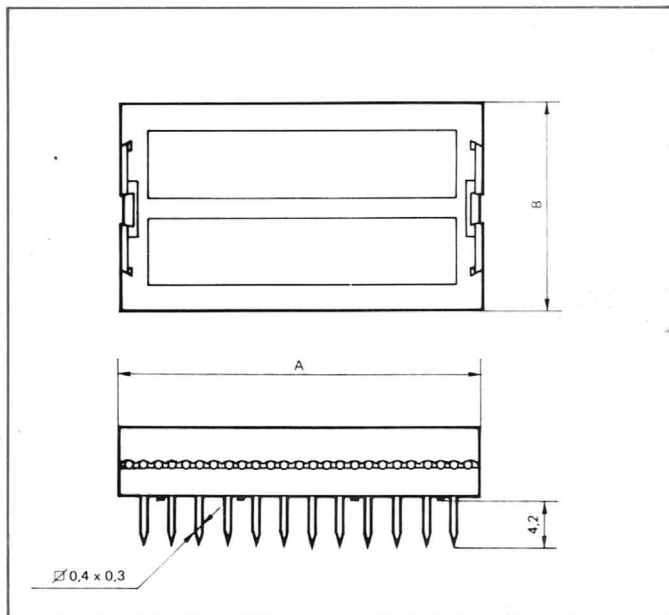
series	8603 - 0 ☐ ☐ - ☐ ☐ - ☐ ☐ - 00 E₁
number of contacts	2 row: 10, 14, 16, 20, 26, 34, 40, 50, 60 4 row: 10, 16, 20, 26, 34, 40, 50, 60
20: 4 row transition 40: 2 row transition	
termination:	14 straight spill 24 short straight spill (3,2 mm) - 2 row transitions only
00 E ₁ : tin plated terminations	

8603

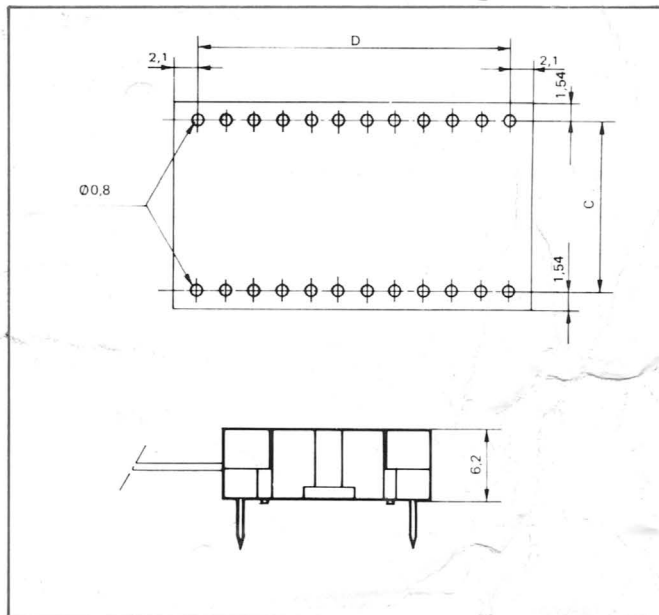
SOURIAU

DIP's

dimensions



card drilling



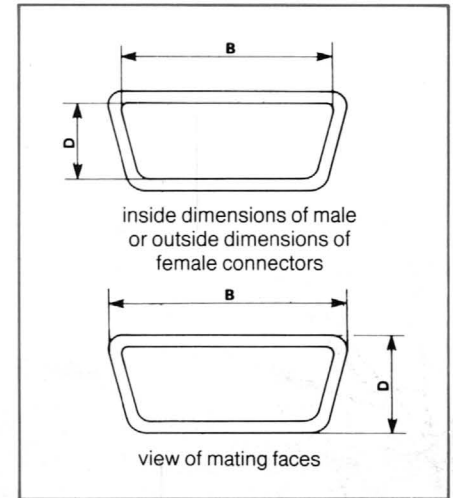
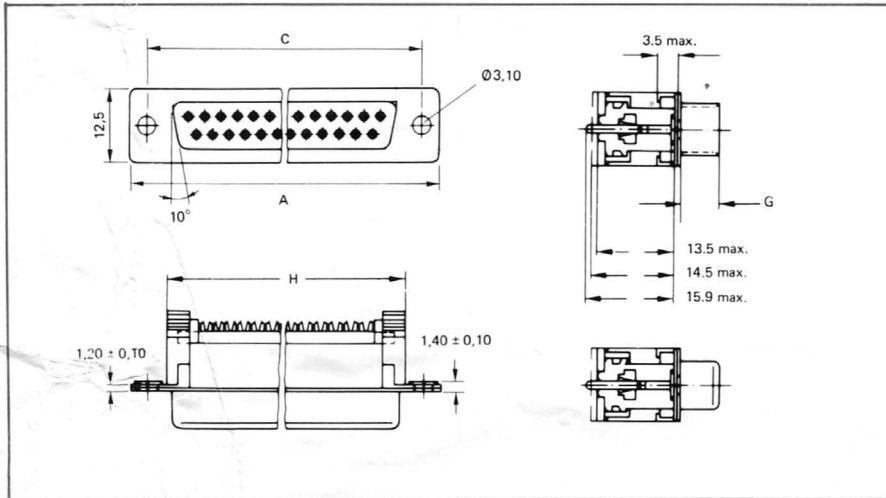
number of contacts	08	14	16	24	40
A	11,70	19,40	22,00	32,10	52,40
B	10,70	10,70	10,70	18,30	18,30
C	7,62	7,62	7,62	15,24	15,24
D	7,62	15,24	17,78	27,94	48,26

ordering information

series	8603 - 0	☐	☐	- 10	- 14	- 000
number of contacts: 08-14-16-24-40						
DIP						
termination: straight spill						
plating: 000 : gold flash over nickel 000 E ₁ : tin over nickel						

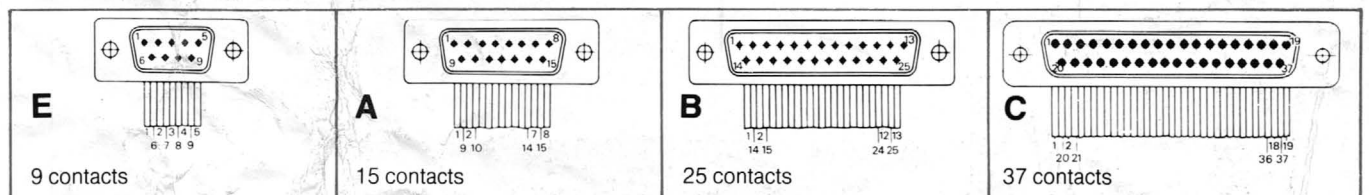
8657

D-subminiature dimensions



number of contacts		A + 0,76 0	B + 0,25 0	C ± 0,12	D + 0,25	G + 0,15 0	H + 0,51 0
E	P	30,43	16,79	24,99	8,23	5,90	19,02
	S	30,43	16,21	24,99	7,77	6,05	19,02
A	P	38,76	25,12	33,32	8,23	5,90	27,25
	S	38,76	24,54	33,32	7,77	6,05	27,25
B	P	52,65	38,84	47,04	8,23	5,85	41,02
	S	52,65	38,25	47,04	7,77	6,05	41,02
C	P	68,94	55,30	63,50	8,23	5,85	57,45
	S	68,94	54,71	63,50	7,77	6,05	57,45

contact layouts (male insulator front view)

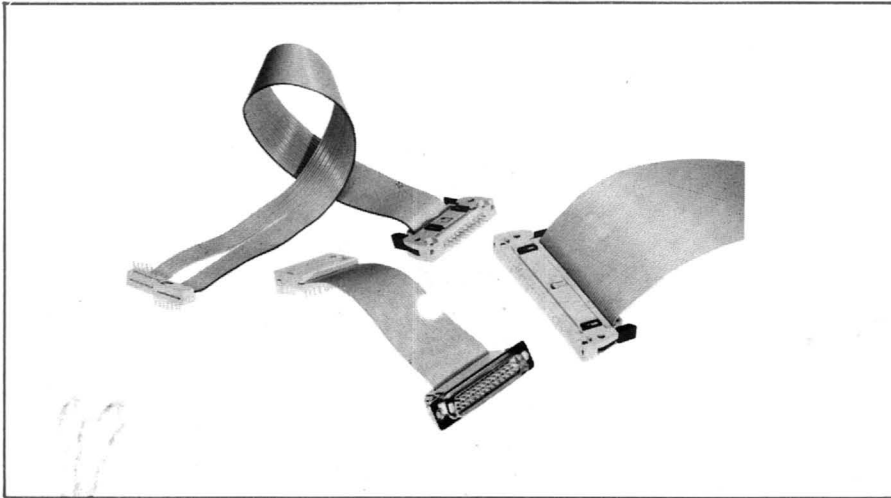


ordering information

series	8657	-	□	□	-	□	-	064	-	T	-	X
number of contacts:	09-15-25-37											
type of connector	P	male										
	S	female										
contact plating 064	active zone – gold over nickel termination zone – tin over nickel											
tin plated shell												
X: enhanced electrical continuity – (optional suffix)												

cable harnesses

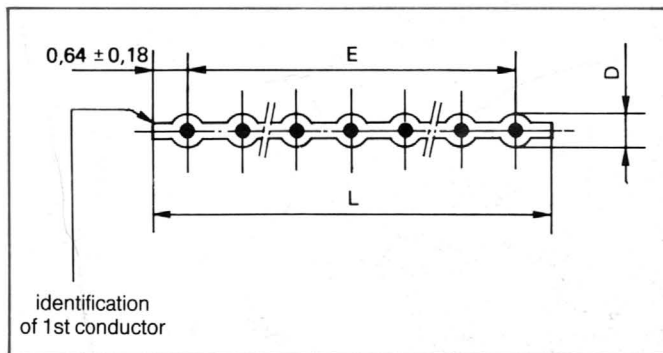
Souriau offers a customised I.D.C. harness service. This covers the headers, sockets, DIP's and transitions described in this catalogue. Cable splitting can be included. A customer's preferred cable type can be supplied if required.



All our connectors are tested and guaranteed for use with most cables available on the market.

cable dimensions

- connector terminations are on a uniform 1,27 mm (0.05") pitch
- cables are centrally located within the insulator



number of contacts	insulation thickness D ± 0,13 (.005)	total width L ± 0,32 (.125)	E ± 0,2 (.003)
9	0,89	11,43	10,16
10	0,89	12,70	11,43
14	0,89	17,78	16,51
16	0,89	20,32	19,05
20	0,89	25,40	24,13
26	0,89	33,02	31,75
34	0,89	43,15	41,95
40	0,89	50,80	49,53
50	0,89	63,50	62,23
60	0,89	76,20	74,93
64	0,89	81,28	80,01

ordering information for cable

series	8613	– 09	– 127	– 28	– 050
number of contacts: 9 to 64					
pitch: 1,27 mm					
28 AWG gauge, multistrand Ø					
standard grey cable					

cabling kits

Bench tool



lever press: **8613-52 A**
base plate: **8613-51 A**
(to accept cable kits as listed below)

Hand tool



tooling kit
without pliers: **8613-73**

tooling kit
with pliers: **8613-71**

enables the user to cable all Souriau flat cable connectors

ordering information for cabling kits

8613 HE 10	8613-53C
8603 DIP 8-16	8613-74
24-40	8613-75
8603 PCB	8613-56A
8603 PCB 2 rows	8613-76
cutting tool	8613-54C
8657 SUB	8633-69

flat cable connectors



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