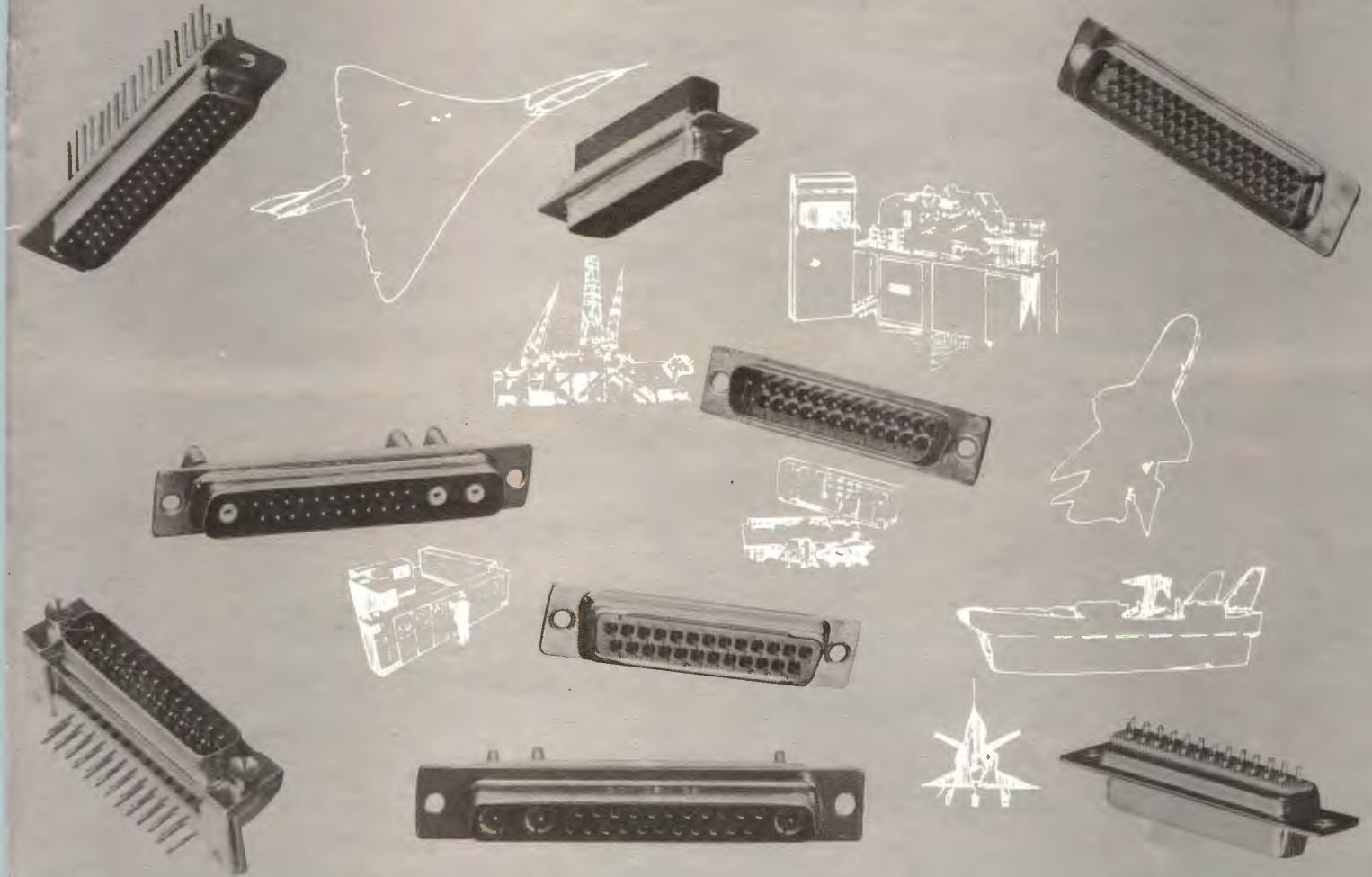


souriau connectors **D Sub**



- Compact dimensions
- Increased range of contacts
- Trapezoidal polarising steel shells
- Wide choice of terminations
- Numerous accessories
- Rigid and float mountings
- Hermetic versions
- Selected QPL and CCQ approved types



SOURIAU

ref: J056-05-81B-BUK

applications



aerospace



industrial



military



telecommunications



data process



electronics

D subminiature connectors are widely utilised throughout the electronics industry. This catalogue outlines the SOURIAU range of standard types in regular production, including those which are qualified to international specifications (see page 31).

SOURIAU D connectors exhibit special advantages in low weight and compact dimensions. The well known trapezoidal shell eliminates any possibility of mismatch during connection and the series is designed and approved for a variety of applications, including:

- Data Processing
- Telecommunications
- Avionics
- Instrumentation

Many types of accessory complete the range, providing rigid or float mountings and cable junctions, together with a unique choice of termination styles:

- Solder bucket
- Crimp
- Wire wrap
- Straight and angled solder spills for printed circuits

Six different series of the SOURIAU D subminiature connector are featured in this catalogue:

1. **Original D** series. A low cost industrial version with a self-extinguishing thermoplastic insulator, with solder and wire wrap contacts for wire connections and straight or angled spills for printed circuits.
2. **8634** series. An industrial connector for volume production, featuring a self-extinguishing thermoset insulator and removable crimp contacts supplied in reels for automatic machine operation. A manual tool is also available for individual crimping.
3. **DM** series (Mark I). A high performance connector with a high temperature self-extinguishing thermoset insulator, suitable for use in severe environments. Available with the same choice of contact terminations as the Original D series.
4. **DMW** series. With similar characteristics to the DM series but offering combinations of standard and coaxial contacts.

5. **8630/8631** series (Mark III). These versions are similar to the DM series but feature removable crimp contacts in a self-extinguishing thermoset insulator, also intended for stringent duties.

6. **DH** series. A hermetic model incorporating a glass and metal seal, with solder bucket and straight spill terminations.

Connectors with special materials and contact protection can also be supplied for exceptional operating conditions. Double density versions of the Original D series with crimp and solder removable contacts are available on request.

comparative features

Intermateable types	INDUSTRIAL		MILITARY QPL AND HE 501			Hermetic
	Solder	Crimp	Solder		Crimp	
	D SERIES Original D	8634 SERIES automatic crimp	DM SERIES Mark I	DMW SERIES coaxial and power contacts	8630/8631 series Mark III	

1 materials & finishes

Shell	Cadmium-plated steel, passivated	Cadmium-plated steel, passivated	Cadmium-plated steel, passivated	Cadmium-plated steel, passivated	Cadmium-plated steel, passivated	Cadmium-plated steel, passivated or tinned
Insulator	Thermoplastic, self-extinguishing	Thermoset, self-extinguishing	Thermoset, self-extinguishing	Thermoset, self-extinguishing	Thermoset, self-extinguishing	Glass
Contacts and plating	Copper alloy and gold	Copper alloy and gold	Copper alloy and gold	Copper alloy and gold	Copper alloy and gold	Ferrous alloy, gold or tin
Contact terminations	<ul style="list-style-type: none"> - Solder bucket - Straight spill - Angled spill - Wire wrap 	* Crimp removable	<ul style="list-style-type: none"> * Solder bucket * Straight spill * Angled spill * Wire wrap 	<ul style="list-style-type: none"> * Coaxial <ul style="list-style-type: none"> - core: solder - screen: solder - screen: crimp * Standard <ul style="list-style-type: none"> - solder bucket - straight spill - angled spill - wire wrap * Power <ul style="list-style-type: none"> - solder bucket 	* Crimp removable	<ul style="list-style-type: none"> * Solder bucket * Straight spill

2 mechanical characteristics

Removable contacts	No	Yes	No	Yes: coaxial contacts only	Yes	No
Contact diameter	1mm	1mm	1mm	1mm standard contacts	1mm	1mm
Maximum wire size	AWG 20	AWG 20	AWG 20	AWG 20: standard contacts. Others: see page 12	AWG 20	AWG 20
Maximum diameter of insulated wire	2.1mm	1.9mm	2.1mm	2.1mm	1.7mm	2.1mm

3 electrical characteristics

Max. voltage Contacts: V RMS 50Hz - straight - angled	1000V	1000V	1000V	1000V 800V	1000V	750V
Rated voltage V RMS 50Hz	300V	300V	300V	300V	300V	-
Max. voltage V RMS 50Hz altitude rating	250V	250V	250V	standard contacts 250V	250V	-
Maximum current rating, contacts	5A	5A	7.5A	standard 7.5A power 40A	7.5A	7.5A
Insulation resistance	≥5000MΩ	≥5000MΩ	≥5000MΩ	≥5000MΩ	≥5000MΩ	≥5000MΩ
Contact resistance (at contact tip)	≤10mΩ	≤10mΩ	≤5mΩ	≤5mΩ	≤5mΩ	≤14mΩ ferro alloys

4 climatic conditions

Operating temperature range	-55°C to +105°C	-55°C to +125°C	-55°C to +125°C	-55°C to +125°C	-55°C to +125°C	-55°C to +125°C peak +175°C for 1 minute
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5 specifications

F CCTU 08-14 type HE 501			CCQ approved		CCQ approved	
USA MIL-C-24308			QPL approved		QPL approved	Conforms
GB BS 9523-N-0001			Conforms			

contents

Original D series		D, 8634, DM and 8630/8631 series	
Features and contact layouts	4	Panel cutouts	19
Part numbers and dimensions	5	Panel mounting	20
8634 series		DH series	
Features and contact layouts	6	Features and contact layouts	21
Part numbers and dimensions	7	Variants	22
Assembly instructions	7	Part numbers and dimensions	23
DM series (Mark I)		Panel cutouts	24
Features and contact layouts	8	Accessories	
Part numbers and dimensions	9	Plastic hoods	25 & 26
DMW series		Metal hoods	26 & 27
Features and contact layouts	10	Potting boots and protective caps	28
Part numbers and dimensions	11	Locking systems	29
Coaxial and power contacts ...	12	Equivalents table:	
Assembly instructions	13	CCTU 08-14, MIL-C-24308 specifications and SOURIAU part numbers	31
D, DM and DMW series			
Mounting brackets	14		
PC card drilling dimensions ...	15		
8630/8631 series (Mark III)			
Features and contact layouts	16		
Part numbers and dimensions	17		
Contact part numbers	18		
Assembly instructions	18		
		Shell dimensions, rigid and float mounting	30



Original D industrial solder connector

This popular low-cost series is designed for a wide variety of industrial and electronics applications, featuring a full range of contact terminations.

features

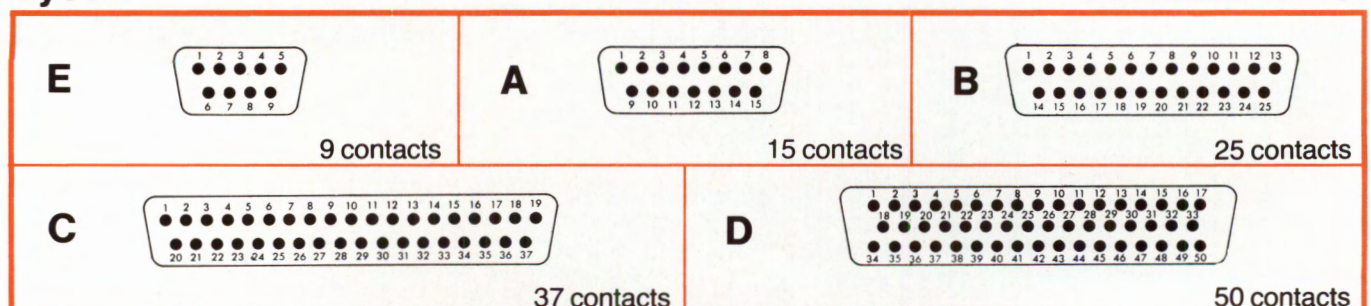
- * Shell: passivated cadmium-plated steel
- * Insulator (2-part): self-extinguishing thermoplastic to UL Class 94V-O
- * Contacts: $\varnothing 1\text{mm}$
- * Operating temperature: -55°C to $+105^{\circ}\text{C}$
- * Contact plating: gold
- * Operating current: 5A per contact
- * Contact resistance: $\leq 10\text{m}\Omega$
- * Insulation resistance: $\geq 5000\text{M}\Omega$ in ambient conditions
- * Maximum voltage: 1000V RMS
- * Wire sizes (for solder): 0.6mm^2 (AWG 20) max.

Fixed contacts, terminations:

- * Solder bucket
- * Straight and angled spills for reflow solder
- * Wire wrap (mini), 2 and 3 wraps
- * Connectors: rigid and float mounting

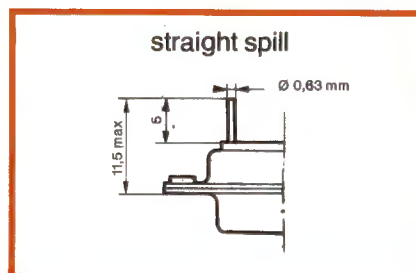
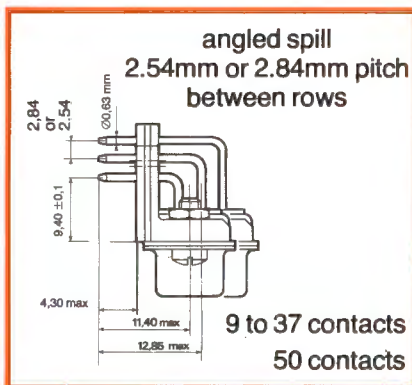
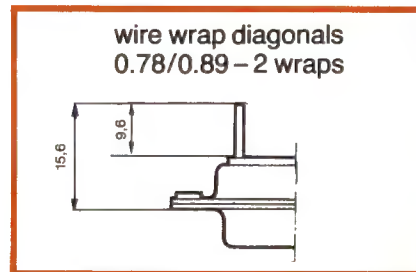
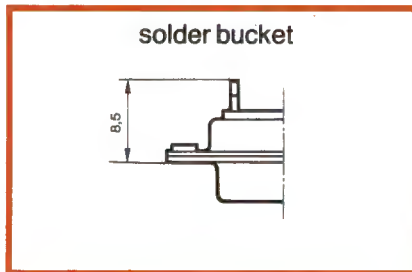
layouts

Male insulator front view

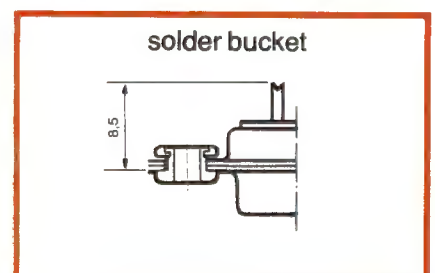


Contacts are individually numbered on both sides of the insulator.

rigid mounting



float mounting



Refer to page 30 for shell dimensions for rigid and float mounting

shell	contacts: P: male S: female	solder bucket	straight spill	rigid mounting wire wrap		angled spill* with mounting brackets		float mounting solder bucket
				3 wraps	2 wraps	2.54mm pitch between rows	2.84mm pitch between rows	
E	P	DE 09P	DE 09P300	DE 09P400	DE 09P600	DE 09P500	DE 09P800	DEF 09P
	S	DE 09S	DE 09S300	DE 09S400	DE 09S600	DE 09S500	DE 09S800	DEF 09S
A	P	DA 15P	DA 15P300	DA 15P400	DA 15P600	DA 15P500	DA 15P800	DAF 15P
	S	DA 15S	DA 15S300	DA 15S400	DA 15S600	DA 15S500	DA 15S800	DAF 15S
B	P	DB 25P	DB 25P300	DB 25P400	DB 25P600	DB 25P500	DB 25P800	DBF 25P
	S	DB 25S	DB 25S300	DB 25S400	DB 25S600	DB 25S500	DB 25S800	DBF 25S
C	P	DC 37P	DC 37P300	DC 37P400	DC 37P600	DC 37P500	DC 37P800	DCF 37P
	S	DC 37S	DC 37S300	DC 37S400	DC 37S600	DC 37S500	DC 37S800	DCF 37S
D	P	DD 50P	DD 50P300	DD 50P400	DD 50P600	DD 50P500	DD 50P800	DDF 50P
	S	DD 50S	DD 50S300	DD 50S400	DD 50S600	DD 50S500	DD 50S800	DDF 50S

*NOTE: may also be supplied without mounting brackets – add suffix 'C' to part number.

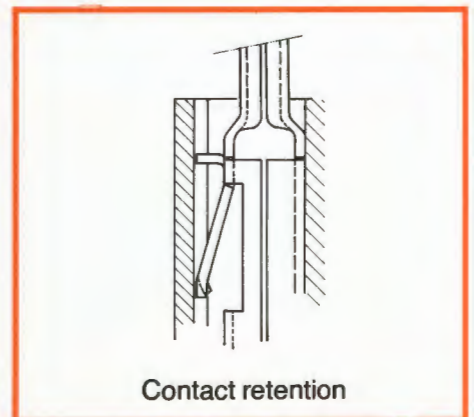
8634 series industrial crimp connector

Featuring removable contacts, this version is intermateable with other subminiature D connectors. It utilises both manual and automatic crimp methods and offers special economies for volume production.



features

- * Shell: passivated cadmium-plated steel
- * Insulator: self-extinguishing thermoset, UL Class 94V-O
- * Operating temperature: -55°C to +125°C
- * Contact plating: gold
- * Operating current: 5A per contact
- * Contact resistance: $\leq 10\text{m}\Omega$
- * Insulation resistance: $\geq 5000\text{M}\Omega$ in ambient conditions
- * Maximum voltage: 1000V RMS
- * Wire sizes: 0.21mm² (AWG 24) min.
0.60mm² (AWG 20) max.
max \varnothing of insulated wire: 1.90mm
- * Contacts: crimp removable, retained by a spring clip. Supplied in reels of 10,000 contacts or separately in boxes of 100 and 500 contacts.



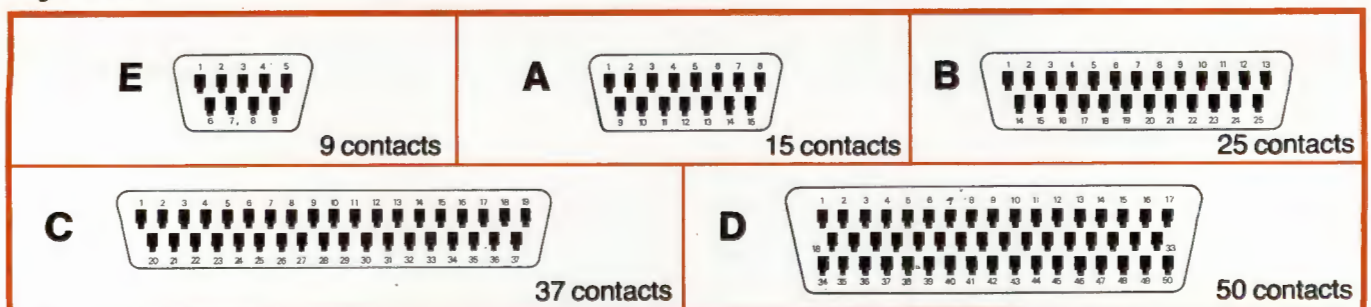
automatic crimping

Pneumatic equipment:

- * 1500 crimps per hour
- * Automatic strip and crimp initiated by wire insertion
- * Double crimp of core and sleeve

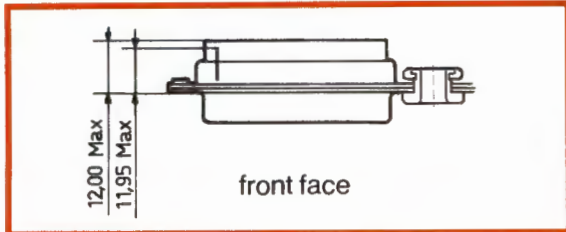
layouts

Male insulator front view



Contacts are individually numbered on both sides of the insulator.

outline dimensions

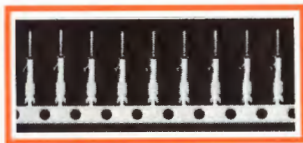


Refer to page 30 for shell mounting dimensions.

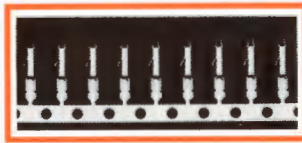
connector part numbers

series	8634	F	25	P	
– rigid mounting F float mounting, rear and front					
contact layouts: 09 – 15 – 25 – 37 – 50					
P: connector with male contacts S: connector with female contacts					
Add suffix L for connectors to be supplied without contacts. Additional modification codes.					

contact part numbers



male contacts



female contacts

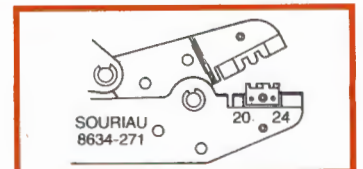
strip contacts

Order separately	Male	Female
Reel of 10,000	8634-220	8634-221
Box of 100	8634-232	8634-233
Box of 500	8634-234	8634-235

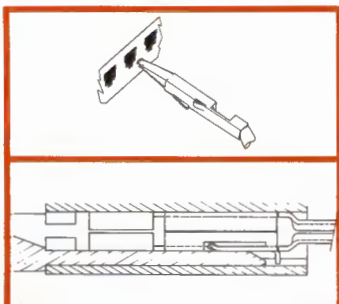
tooling part numbers

automatic crimp machine complete with tooling	8506-8634
manual crimp tool	8634-271
plastic contact extraction tool (supplied with connectors)	8634-210

consult us for installation
and operating instructions.

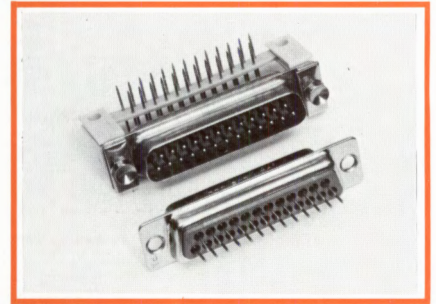


operating instructions



- * Contact crimping: refer to instructions supplied with the machine and manual tool.
- * Insertion of wire and contact assembly: introduce from the rear of the connector and push home until click engagement is observed.
- * Contact extraction: engage wire in the tapered slot of the plastic tool 8634-210. Slide the tool into the contact cavity from the rear until restrained by the retention clip. Hold in position and remove the assembly by pulling the wire.

DM series (Mark I) with MIL-C-24308 and HE 501 approvals (solder)



France: CCTU 08-14 type HE 501

USA: MIL-C-24308 QPL

GB: conforms to BS 9523-N-0001

This series is designed for critical operating and environmental conditions.

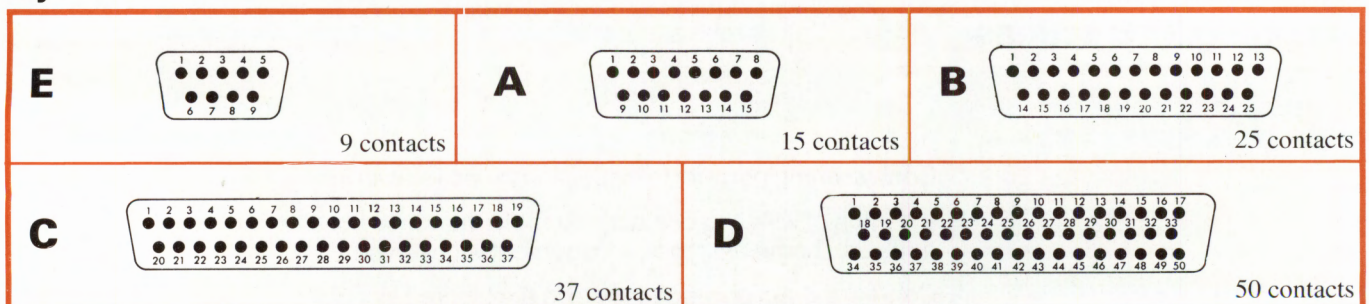
features

- * Shell: passivated cadmium-plated steel
- * Insulator: monobloc self-extinguishing thermoset, UL Class 94V-O
- * Contacts \varnothing 1mm
- * Operating temperature: -55°C to $+125^{\circ}\text{C}$
- * Contact plating: gold
- * Operating current: 7.5A per contact
- * Contact resistance: $\leq 5\text{m}\Omega$
- * Insulation resistance: $\geq 5000\text{M}\Omega$
- * Maximum voltage: 1000V RMS
- * Mechanical endurance: 500 matings
- * Wire sizes: 0.6mm² max (AWG 20)
- * Fixed contacts, terminations:
 - * Solder bucket
 - * Straight and angled spills for reflow solder
 - * Wire wrap (mini), 2 and 3 wraps
- * Connectors: rigid and float mounting

NOTE: refer to page 31 for equivalents table, CCTU 08-14, MIL-C-24308 and SOURIAU part numbers.

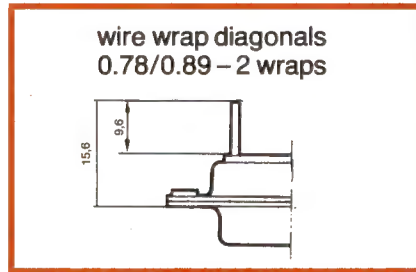
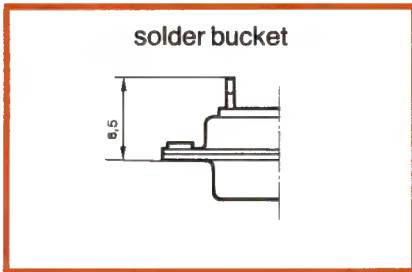
layouts

Male insulator front view

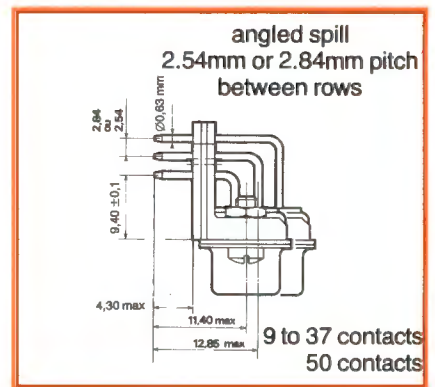
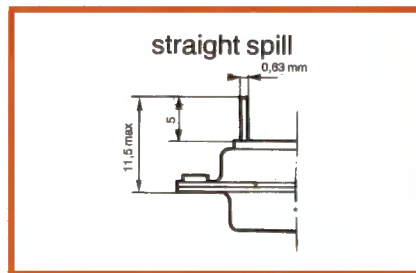
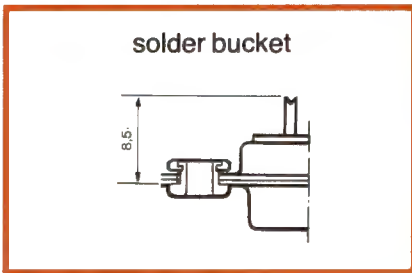


Contacts are individually numbered on both sides of the insulator.

rigid mounting



float mounting



Refer to page 30 for shell dimensions for rigid and float mounting

shell	contacts: P: male S: female	rigid mounting						float mounting
		solder bucket Δ	straight spill	wire wrap		angled spill* with mounting brackets		solder bucket Δ
				3 wraps	2 wraps	2.54mm pitch between rows	2.84mm pitch between rows	
E	P	DEM 09P	DEM 09P300	DEM 09P400	DEM 09P600	DEM 09P500	DEM 09P800	DEMF 09P
	S	DEM 09S	DEM 09S300	DEM 09S400	DEM 09S600	DEM 09S500	DEM 09S800	DEMF 09S
A	P	DAM 15P	DAM 15P300	DAM 15P400	DAM 15P600	DAM 15P500	DAM 15P800	DAMF 15P
	S	DAM 15S	DAM 15S300	DAM 15S400	DAM 15S600	DAM 15S500	DAM 15S800	DAMF 15S
B	P	DBM 25P	DBM 25P300	DBM 25P400	DBM 25P600	DBM 25P500	DBM 25P800	DBMF 25P
	S	DBM 25S	DBM 25S300	DBM 25S400	DBM 25S600	DBM 25S500	DBM 25S800	DBMF 25S
C	P	DCM 37P	DCM 37P300	DCM 37P400	DCM 37P600	DCM 37P500	DCM 37P800	DCMF 37P
	S	DCM 37S	DCM 37S300	DCM 37S400	DCM 37S600	DCM 37S500	DCM 37S800	DCMF 37S
D	P	DDM 50P	DDM 50P300	DDM 50P400	DDM 50P600	DDM 50P500	DDM 50P800	DDMF 50P
	S	DDM 50S	DDM 50S300	DDM 50S400	DDM 50S600	DDM 50S500	DDM 50S800	DDMF 50S

* NOTE: may also be supplied without mounting brackets – add suffix 'C' to part number.

Δ NOTE: for MIL-C-24308 versions, add suffix -032 to part number.

DMW series with coaxial and power contacts

Identical features to the DM Mark I series, offering combinations of fixed standard contacts and removable coaxial and power contacts.



features

- * Shell: passivated cadmium-plated steel
- * Insulator: monobloc self-extinguishing thermoset, UL Class 94V-O
- * Contacts: $\varnothing 1\text{mm}$ standard
- * Operating temperature: -55°C to $+125^{\circ}\text{C}$
- * Contact plating: gold
- * Operating current: 7.5A per contact
- * Contact resistance, standard: $\leq 5\text{m}\Omega$
- * Insulation resistance: $\geq 5000\text{M}\Omega$
- * Maximum voltage:
 - Straight lead-out: 1000V RMS
 - Angled lead-out: 800V RMS
- * Impedance (depending on contacts and cables): 50, 75 or 95Ω
- * Fixed standard contacts, terminations:
 - * Solder bucket
 - * Straight and angled spills
 - * Wire wrap (min), 2 and 3 wraps
- * Removable coaxial contacts, terminations:
 - * Straight and 90° angled
 - * Solder or crimp screen
- * Removable power contacts (operating current 10A to 40A), termination: Solder bucket

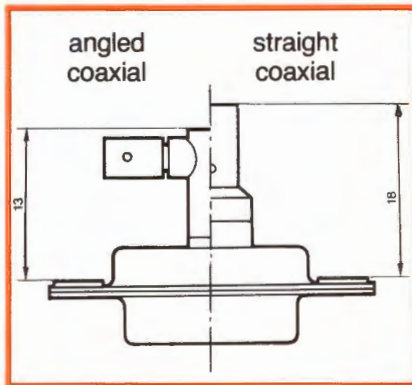
layouts

Male insulator front view

shells				
E	A	B	C	D

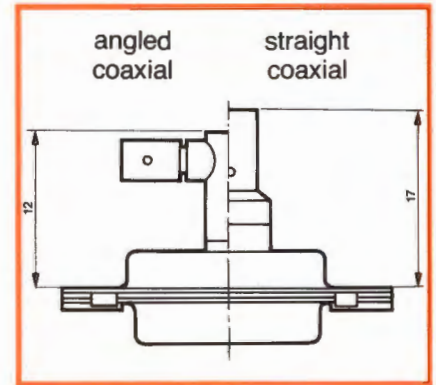
Contacts are individually numbered on both sides of the insulator: standard contacts by numbers, coaxial and power contacts by letters and numbers.

coaxial contacts rigid mounting



Refer to page 30 for shell dimensions
for rigid and float mounting

float mounting



- Dimensions of standard contacts (all terminations), refer to page 17 for DM series
- PC card drilling dimensions, page 17
- Coaxial and power contacts should be ordered separately, page 12

connector part numbers

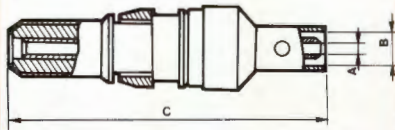
series	DBM	F	13W3	P	800
- rigid mounting F - float mounting, front and rear					
Contact layouts (see page 10) Example: 13W3 = 13 contacts - 10 standard (supplied with the connector) and 3 special (ordered separately)					
P: male connector S: female connector					
Standard contact terminations - Solder bucket 300 Straight spill *500 Angled spill (2.54mm pitch between rows) *800 Angled spill (2.84mm pitch between rows) 400 Wire wrap, 3 wraps 600 Wire wrap, 2 wraps					

* These types are supplied with mounting brackets fitted. If required without brackets, add suffix 'C'. Example:
DBM-13W3P-800C.

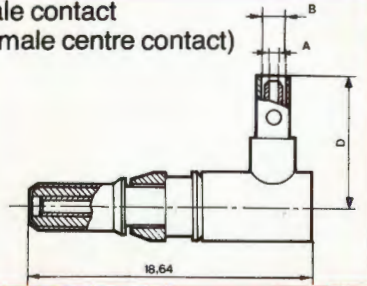
coaxial contacts
straight

angled

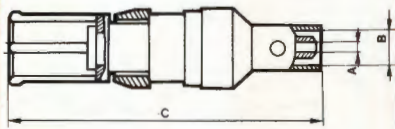
male contact
(female centre contact)



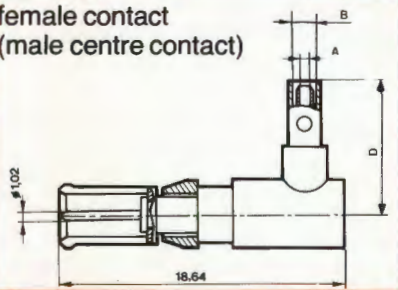
male contact
(female centre contact)



female contact
(male centre contact)



female contact
(male centre contact)



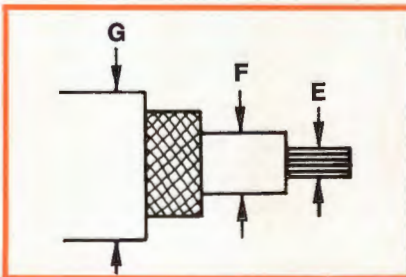
Size 8 power contacts

wire size	operating current	part numbers	
		pin	socket
AWG 8	40 A	8630-3098	8630-3099
AWG12	20 A	8630-3056	8630-3057
AWG14	15 A	8630-3060	8630-3061
AWG16	10 A	8630-3064	8630-3065

pin



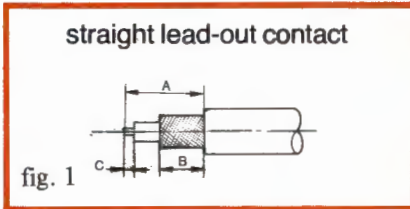
socket



NOTE: Male coaxial contacts are assembled in male connectors 'P', female contacts in female connectors 'S'.

contact types	part numbers		contact dimensions				acceptable cable diameters			recommended cable types				
	screen solder	screen crimp	A +0,1 +0	B +0,1 +0	C	D	E	F	G	MIL.C 17E	NFC 93-550	CEI N°96	Impedance at 200MHz	
straight	male	DM 53740-5008 DM 53740-5000	DM 53740	0,98	2,30	23,60 21,80		0,30	0,90	2,20	RG 196 AU		50.1.A.1	50Ω±2Ω
	female	DM 53742-5006 DM 53742-5000	DM 53742	0,98	2,30	23,60 21,80		0,30	0,90	2,20	RG 178 BU	KX 21 A	50.1.A	50Ω±2Ω 50Ω±5Ω
angled	male	DM 53741-5000	DM 53741	0,98	2,30		12,50	0,30	0,90	2,20				
	female	DM 53743-5000	DM 53743-2	0,98	2,30		12,50	0,30	0,90	2,20				
straight	male	DM 53740-5001	DM 53740-1	1,68	3,11	23,60		0,51	1,60	3	RG 174 AU			50Ω±2Ω 50Ω±3,5Ω
	female	DM 53742-5001	DM 53742-1	1,68	3,11	23,60		0,51	1,60	3	RG 179 BU RG 187 AU RG 188 AU RG 316 U	KX 3 A	5.2.1 75.2.A 75.2.A.1 50.2.A.1 50.2.2	75Ω±3Ω 75Ω±3Ω 50Ω±2Ω 50Ω±2Ω 50Ω±5Ω
angled	male	DM 53741-5001	DM 53741-1	1,68	3,11		12,50	0,51	1,60	3				
	female	DM 53743-5001	DM 53743-3	1,68	3,11		12,50	0,51	1,60	3		KX 22 A		
straight	male	DM 53740-5002	DM 53740-3	2,73	5,07	26,30		0,30	2,60	5				95Ω±5Ω
	female	DM 53742-5002	DM 53742-3	2,73	5,07	26,30		0,30	2,60	5	RG 180 BU			
angled	male	DM 53741-5003	DM 53741-3	2,73	5,07		15,30	0,30	2,60	5	RG 195 AU			95Ω±3Ω
	female	DM 53743-5003	DM 53743-5	2,73	5,07		15,30	0,30	2,60	5				
straight	male	DM 53740-5005	DM 53740-5	3,13	5,07	26,30		0,90	3	5	RG 58 CU	KX 15	50.3.1	50Ω±2Ω
	female	DM 53742-5004	DM 53742-5	3,13	5,07	26,30		0,90	3	5	RG 141 AU		50.3.A.2	50Ω±2Ω
angled	male	DM 53741-5004	DM 53741-4	3,13	5,07		15,30	0,90	3	5	RG 303 U			50Ω±2Ω
	female	DM 53743-5004	DM 53743-6	3,13	5,07		15,30	0,90	3	5				

wiring instructions for coaxial contacts



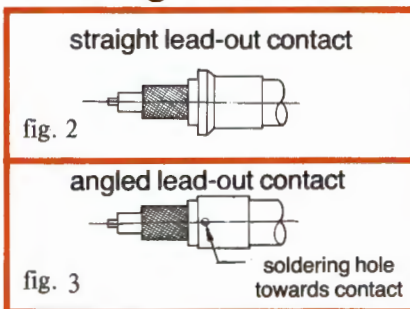
stripped lengths are the same for solder and crimp types.

contact type	straight contact			angled contact		
	A	B	C	A	B	C
KX 15	11	7,5	2	13	7,5	2
K 22 A - KX 3 A	10	6	2	11	6	2
KX 21 A	10	6	2	11	6	2
RG 188 BU RG 195 AU	11	7,5	2	11	7,5	2

(1) assembly

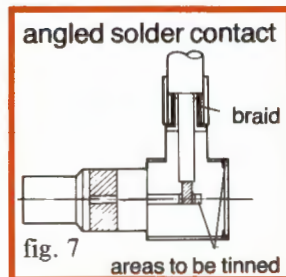
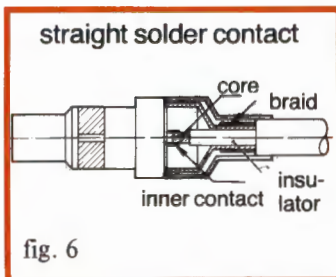
- Strip the cable as shown in Fig. 1
- Slide the sleeve on to the cable
- Insert the wire core into the inner contact, pushing the cable insulation up to the contact shank
- Apply heat to the contact and solder the wire core in position
- Close the cable screen braid around the contact
- Slide the sleeve on to the braid

soldering the screen braid



- Solder the ring on to the contact body.
- Apply solder through the hole provided on the periphery of the ring to join with the braid.

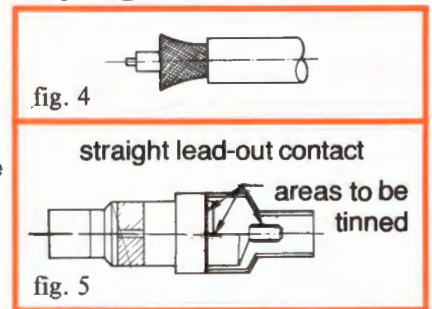
for angled solder contacts solder the disc to the rear contact face



(2) contact insertion

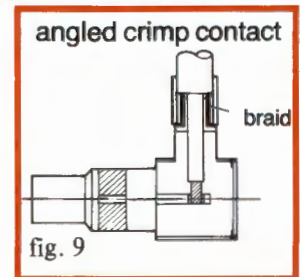
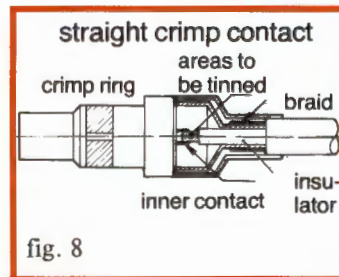
- Insert the contact from the rear of the connector.
- Push the contact assembly into the insulator by the cable until engagement of the retention clip.

crimping the screen braid



- Crimp the ring to the body of the contact with tool ref. M22910/7-1 or M22520/5-01, using the appropriate locator.

Tool	Locator	Cable
M 22910/7-1	612784 (Buchanan)	KX 21 A KX 22 A
	613371 (Buchanan)	KX 15 A
M 22520/5-01	Y 278 (Daniels)	KX 21 A
		KX 22 A
		KX 15 A



(3) contact extraction

- Utilise extraction tool ref. 8630-07.
- Insert the tool from the front of the connector.
- Push the tool until a click can be felt and the contact moves away.
- Press the plunger of the tool to disengage contact from the connector.

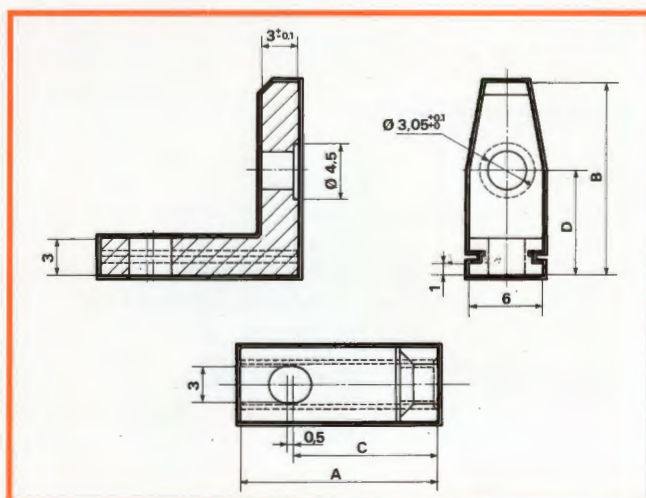
rigid mounting

mounting brackets

For angled spill connectors

Material: self-extinguishing thermoplastic, UL Class 94V-O

shell	number of contacts	* part numbers	dimensions mm			
			A	B	C	D
E	9					
A	15	8630-3612	13,60	13,10	10,50	7,40
B	25					
C	37					
D	50	8630-3613	16,50	16,15	11,60	8,70

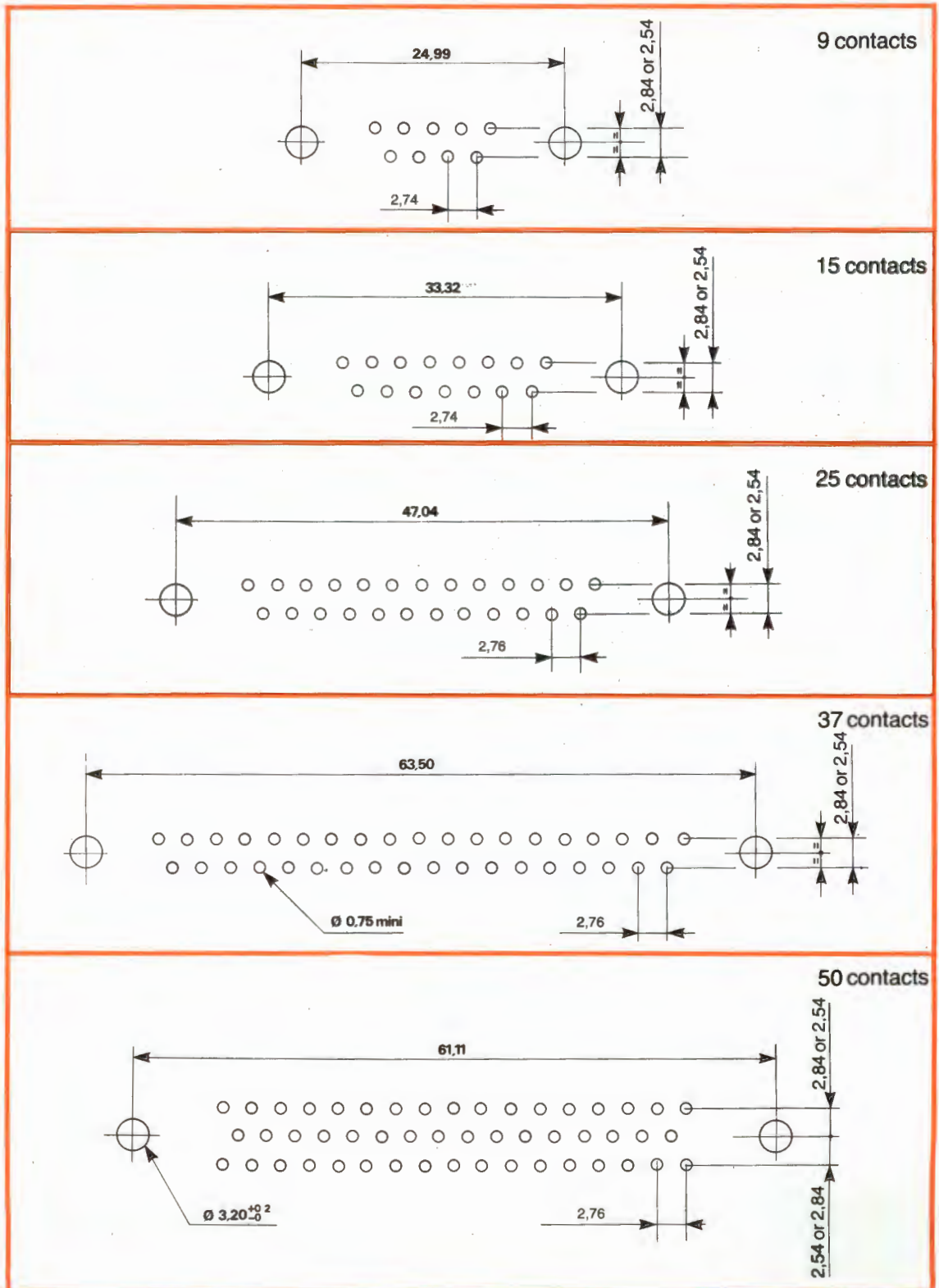


* Part numbers 8630-3612 and 8630-3613 comprise a plastic bracket, screw and nut complete.
(Order 2 assemblies per connector).

- Mounting brackets are normally supplied assembled with connectors.
- Fixing screws can be removed to replace a locking assembly, e.g. type 8630-01 (page 29).
- D, D*M and DM*W series connectors can be supplied without mounting brackets: add suffix 'C' to part number.

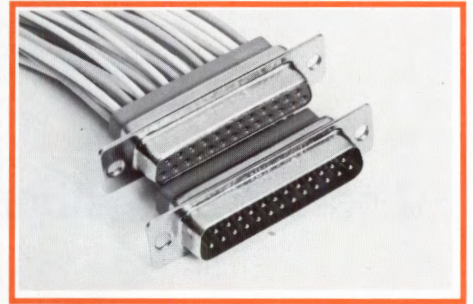
Examples: DB25P 500C
DA15S 800C

PC card drilling dimensions (mm)



Positional tolerance of holes: $\varnothing 0.05$

8630 (Mark III) series removable crimp environmental connectors with MIL-C-24308 and HE 501 approvals



France: CCTU 08-14 type HE 501
 USA: MIL-C-24308 QPL

For duties similar to the DM Mark I series but employing removable crimp contacts, retained in a high-temperature insulator by individual metal clips.

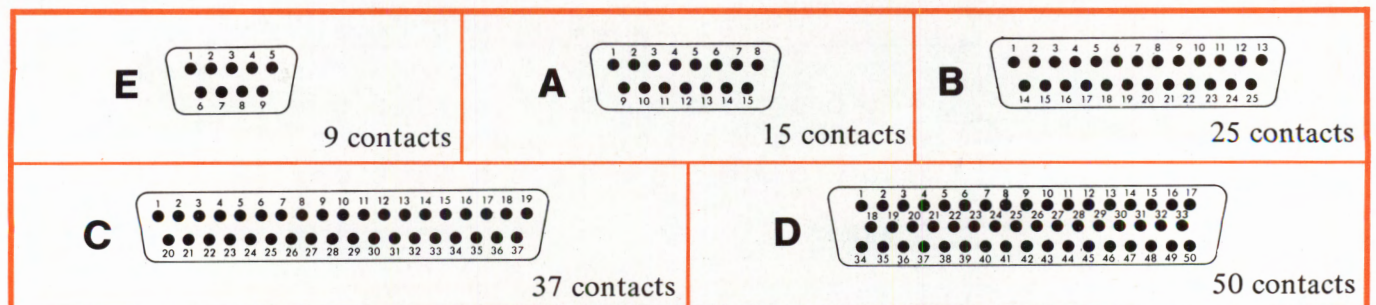
features

- * Shell; passivated cadmium-plated steel
- * Insulator: 2-part self-extinguishing thermoset, UL Class 94V-O, with integral contact retention clips
- * Contacts: $\varnothing 1\text{mm}$
- * Operating temperature: -55°C to $+125^{\circ}\text{C}$
- * Contact plating: gold
- * Operating current: 7.5A per contact
- * Contact resistance: $\leq 5\text{m}\Omega$
- * Insulation resistance: $\geq 5000\text{M}\Omega$
- * Maximum voltage: 1000V RMS
- * Mechanical endurance: 500 matings
- * Wire sizes: max \varnothing of insulated wire – 1.70mm
 - * 0.21mm^2 to 0.6mm^2 (AWG 24 to AWG 20) for contacts $\varnothing 1\text{mm}$
 - * 0.095mm^2 to 0.15mm^2 (AWG 28 to AWG 26) for contacts $\varnothing 1\text{mm}$ with crimp reducer
- * Contacts: removable, standard crimp or thermocouple
- * Connectors: rigid mounting **8630 series**
 float mounting **8631 series**
- * Both versions are available with an optional resilient rear-sealing cable grommet

NOTE: refer to page 31 for equivalents table, CCTU 08-14, MIL-C-24308 and SOURIAU part numbers.

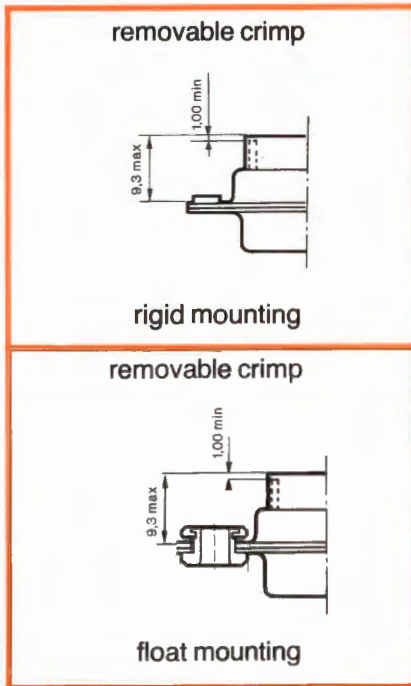
layouts

Front view of male insulator



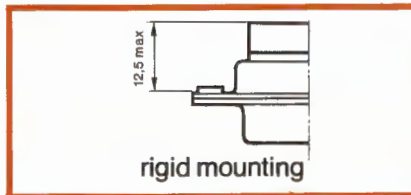
Contacts are individually numbered on both sides of the insulator.

standard version without rear grommet

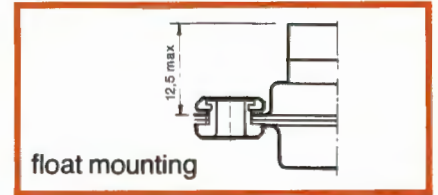


shell	contacts: P: male S: female	part numbers for connectors with standard removable crimp contacts	
		rigid mounting	float mounting
			rear or front panel mounting
E	P	8630 09 P	8631 09 P
	S	8630 09 S	8631 09 S
A	P	8630 15 P	8631 15 P
	S	8630 15 S	8631 15 S
B	P	8630 25 P	8631 25 P
	S	8630 25 S	8631 25 S
C	P	8630 37 P	8631 37 P
	S	8630 37 S	8631 37 S
D	P	8630 50 P	8631 50 P
	S	8630 50 S	8631 50 S

version with rear grommet



Refer to page 30 for shell dimensions for rigid and float mounting



shell	contacts: P: male S: female	part numbers for connectors with standard removable crimp contacts			
		rigid mounting		float mounting	
				front and rear panel mounting	
		standard type	special (spring tine contact)	standard type	special (spring tine contact)
E	P	8630 09P 226	8630 09P 220	8631 09P 226	8631 09P 220
	S	8630 09S 226	8630 09S 220	8631 09S 226	8631 09S 220
A	P	8630 15P 226	8630 15P 220	8631 15P 226	8631 15P 220
	S	8630 15S 226	8630 15S 220	8631 15S 226	8631 15S 220
B	P	8630 25P 226	8630 25P 220	8631 25P 226	8631 25P 220
	S	8630 25S 226	8630 25S 220	8631 25S 226	8631 25S 220
C	P	8630 37P 226	8630 37P 220	8631 37P 226	8631 37P 220
	S	8630 37S 226	8630 37S 220	8631 37S 226	8631 37S 220
D	P	8630 50P 226	8630 50P 220	8631 50P 226	8631 50P 220
	S	8630 50S 226	8630 50S 220	8631 50S 226	8631 50S 220

NOTE: for MIL-C-24308 versions, refer to S*MA series table of equivalents on page 31.

assembly instructions for removable crimp contacts

(1) Alternative contacts and part numbers (non-standard contacts should be ordered separately).

	Standard copper alloys	Non-magnetic copper alloys	Thermocouple			
			Constantan	Cuprotellurium	Chromel	Alumel
Pin	8630-162	8630-787	8630-466	8630-467	8630-432	8630-433
Socket	8630-165	8630-785	8630-468	8630-469	8630-434	8630-435
*Special	8630-629					

- * Modified contact for rear grommet connector, type 220
Reducing sleeve for $\varnothing 1\text{mm}$ contacts, wire size $< 0.21\text{mm}^2$: 8630-292

(2) Wiring instructions (using one of the following tools)

- * Using locator 8630-83, set the selector to suit the wire size adopted.

Standard types	Crimp tools		Locator
	Standard types	SOURIAU types	
MS 3191		8465	P 20-3191-2
MS 3198-1		8476	8630-83*
M 22520/2-01		8476-01	8630-83*

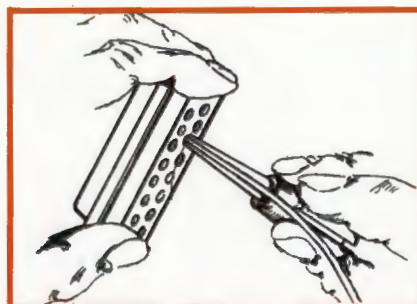
- * Strip the wire insulation for a length of 4mm.

*not suitable for use with reducing sleeve 8630-292

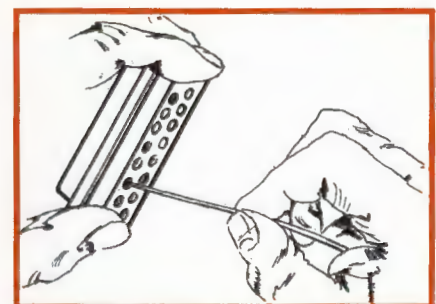


(3) Contact insertion

- * Wire sizes AWG 20 – 22 – 24: insert the wire and contact assembly from the rear of the connector and push home until click engagement is observed.
- * Wire sizes AWG 26 – 28: using insert tool type 8700-39, slide the wire into the tapered groove provided, with the tip of the tool held against the contact. Insert the wired contact from the rear of the connector and push the tool until engaged.
In both cases, pull the wire gently to ensure that the contact is in place.



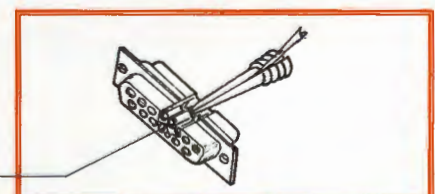
Insertion: tool not required for wire sizes AWG 20-22-24



checking contact retention

(4) Contact extraction: utilise plastic tool type 8630-06A (supplied with each connector)

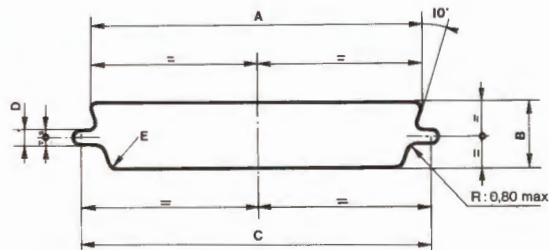
- * Insert the wire into the slot of the tool
- * Press the wire along the groove to engage it completely
- * Push the tip of the tool into the insulator to disengage the contact retention clip
- * Extract the wire and contact assembly by pulling the wire



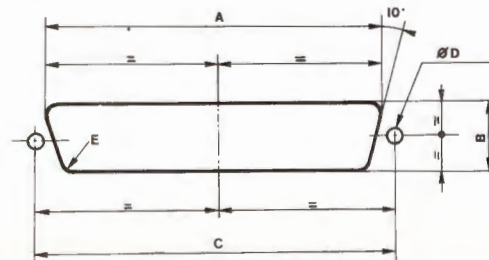
panel cutouts: D, 8634, DM and 8630 series

panel cutouts

Cutout for mounting connectors from front or rear of panel



Cutout for mounting from rear of panel only

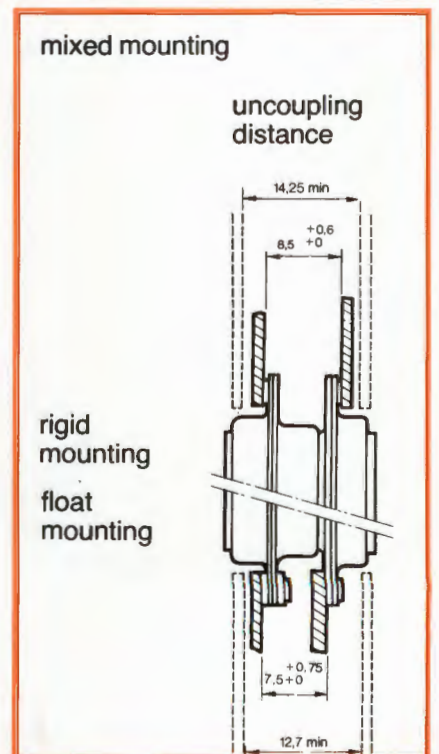
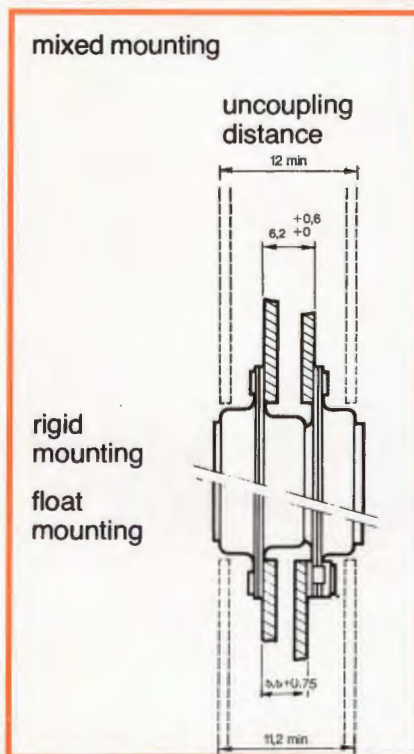
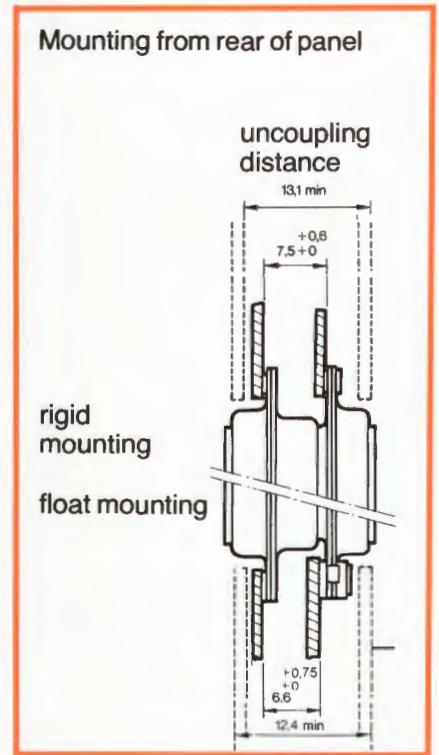
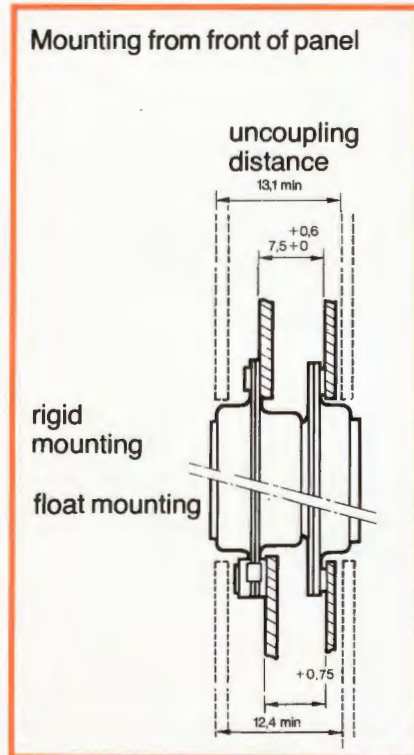


shell	type of mounting	mounting position	A ± 0,1	B ± 0,1	C ± 0,1	D ± 0,05	E ± 0,1
E	rigid	front	22,20	13,00	24,99	3,20	2,10
		rear	20,50	11,40	24,99	3,20	3,30
	float	front	23,00	13,80	24,99	2,20	2,10
		rear	21,30	12,20	24,99	2,20	3,30
A	rigid	front	30,50	13,00	33,32	3,20	2,10
		rear	28,80	11,40	33,32	3,20	3,30
	float	front	31,30	13,80	33,32	2,20	2,10
		rear	29,60	12,20	33,32	2,20	3,30
B	rigid	front	44,30	13,00	47,04	3,20	2,10
		rear	42,50	11,40	47,04	3,20	3,30
	float	front	45,10	13,80	47,04	2,20	2,10
		rear	43,30	12,20	47,04	2,20	3,30
C	rigid	front	60,70	13,00	63,50	3,20	2,10
		rear	59,10	11,40	63,50	3,20	3,30
	float	front	61,50	13,80	63,50	2,20	2,10
		rear	59,80	12,20	63,50	2,20	3,30
D	rigid	front	58,30	15,80	61,11	3,20	2,10
		rear	56,30	14,10	61,11	3,20	3,30
	float	front	59,20	16,60	61,11	2,20	2,10
		rear	57,20	14,40	61,11	2,20	3,30

panel mounting: D, 8634, DM and 8630 series

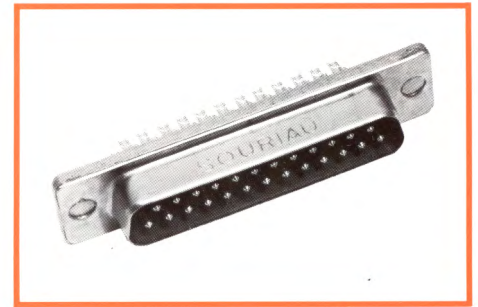
mounting examples

- rigid mounting with 2 screws $\varnothing 3\text{mm}$
- float mounting with 2 screws $\varnothing 2\text{mm}$



NOTES:

- 1 It is recommended that only one of a pair of connectors should have a float mounting.
- 2 Dimensions in this section do not apply to the DH hermetic series.



See
specification suffixes
overleaf

DH hermetic series

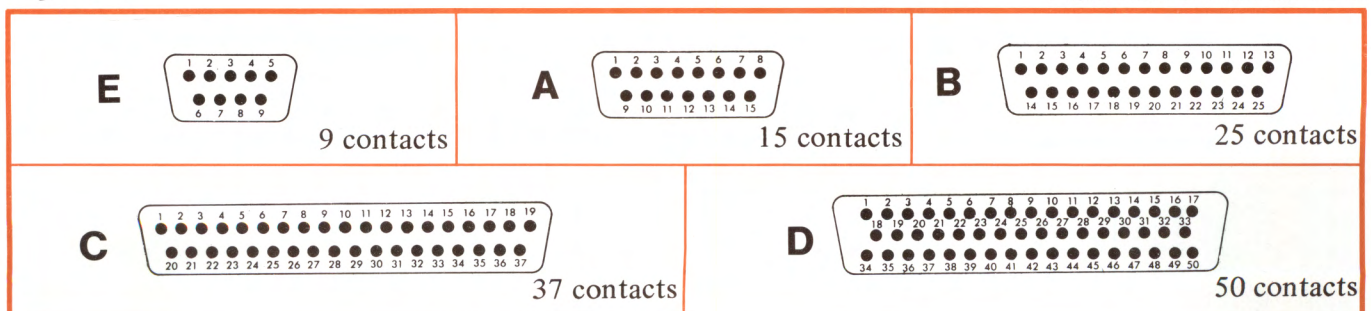
This series of solder contact connectors features gas-tight glass-to-metal sealing between contacts and insulator for absolute reliability in extreme operating conditions.

features

- * Shell: passivated cadmium-plated steel
- * Insulator: glass bead
- * Contacts: $\varnothing 1\text{mm}$
- * Operating temperature: -55°C to $+125^{\circ}\text{C}$, peak 1 min at $+175^{\circ}\text{C}$
- * Contact plating: gold or tin
- * Operating current: 7.5A per contact
- * Contact resistance: $\leq 14\text{m}\Omega$
- * Insulation resistance: $\geq 5000\text{M}\Omega$
- * Maximum voltage: 750V RMS
- * Mechanical endurance: 500 matings
- * Hermeticity: leakage rate is less than $1.04 \times 10^{-5}\text{cm}^3/\text{sec}$ at a differential pressure of 1 bar of a gas containing not less than 10% helium
- * Wire size: 0.06mm^2 (AWG 20)
- * Male contact terminations:
 - * solder bucket
 - * straight solder spills
- * Mountings:
 - * panel solder (with or without locking studs)
 - * screws

layouts

Front view of male insulator



Contacts are individually numbered on both sides of the insulator.

specification suffixes
2 fixing methods

panel solder	Versions without locking screws	Locking stud versions with male screws types 8630-02 to 8630-05 on female connectors
002	<p>← Suffix</p> <ul style="list-style-type: none"> * Solder bucket terminations * Plating: <ul style="list-style-type: none"> * body, cadmium * contacts, gold 	006
004	<p>← Suffix</p> <ul style="list-style-type: none"> * Straight spill terminations * Plating: <ul style="list-style-type: none"> * body, cadmium * contacts, gold 	008
007	<p>← Suffix</p> <ul style="list-style-type: none"> * Solder bucket terminations * Plating: <ul style="list-style-type: none"> * body, tinned * contacts, gold 	009
	<p>→ Suffix</p> <ul style="list-style-type: none"> * Straight spill terminations * Plating: <ul style="list-style-type: none"> * body, tinned * contacts, tinned 	009
	<p>→ Suffix</p> <ul style="list-style-type: none"> * Straight spill terminations * Plating: <ul style="list-style-type: none"> * body, linned * contacts, gold 	010
	<p>→ Suffix</p> <ul style="list-style-type: none"> * Solder bucket terminations * Plating: <ul style="list-style-type: none"> * body, linned * contacts, tinned 	005

panel screws

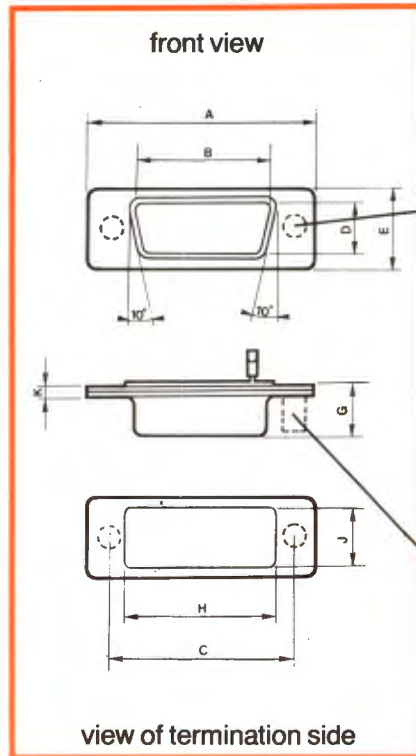
- 102 ← **Suffix**

 - * Solder bucket terminations
 - * Plating:
 - * body, cadmium
 - * contacts, gold
- 104 ← **Suffix**

 - * Straight spill terminations
 - * Plating:
 - * body, cadmium
 - * contacts, gold
- 107 ← **Suffix**

 - * Solder bucket terminations
 - * Plating:
 - * body, tinned
 - * contacts, gold

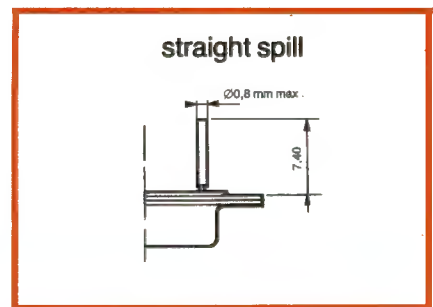
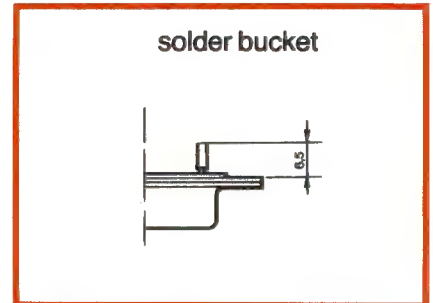
shell



Hole $\varnothing 3.2\text{mm}$
for screw mounting

Locking studs
(internal thread 4-40 UNC 2-B
for male locking studs
8630-02 to 8630-05)

contacts



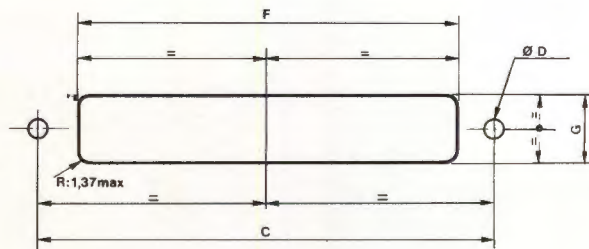
shell	part numbers for connectors with male solder contacts fixing methods			dimensions in mm								
	panel solder	panel screws	locking studs	A	B	C screw mounted	D	E	G maxi	H	J	K
E	DEH 09P 002 DEH 09P 004 DEH 09P 007	DEH 09P 006 DEH 09P 008 DEH 09P 005	DEH 09P 102 DEH 09P 104 DEH 09P 107	30,80	16,94	24,99	8,41	12,54	8,50	18,40	9,40	2,30
A	DAH 15P 002 DAH 15P 004 DAH 15P 007	DAH 15P 006 DAH 15 P 008 DAH 15P 005	DAH 15P 102 DAH 15P 104 DAH 15P 107	39,14	25,27	33,32	8,41	12,54	8,50	23,70	9,40	2,30
B	DBH 25P 002 DBH 25P 004 DBH 25P 007	DBH 25P 006 DBH 25P 008 DBH 25P 005	DBH 25P 102 DBH 25P 104 DBH 25P 107	53,03	39,00	47,04	8,41	12,54	8,40	37,56	9,40	2,30
C	DCH 37P 002 DCH 37P 004 DCH 37P 007	DCH 37P 006 DCH 37P 008 DCH 37P 005	DCH 37P 102 DCH 37P 104 DCH 37P 107	69,29	55,45	63,50	8,41	12,54	8,40	53,97	9,40	2,30
D	DDH 50P 002 DDH 50P 004 DDH 50P 007	DDH 50P 006 DDH 50P 008 DDH 50P 005	DDH 50P 102 DDH 50P 104 DDH 50P 107	66,92	52,86	61,11	11,10	15,36	8,40	50,80	12,70	2,30

Refer to previous page for specifications: 002, 004, 007, 102, 104, 107, 005, 006, 008.

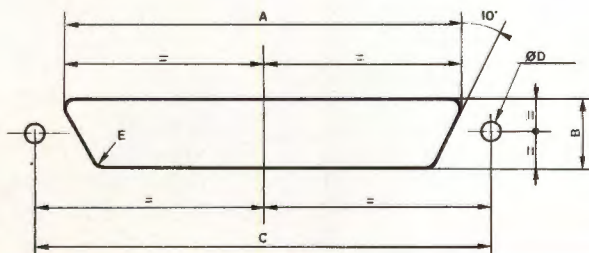
panel cutouts: DH hermetic series

panel cutouts

cutout for mounting connectors from front of panel (screw mounting)



cutout for mounting from rear of panel (screw mounting)



shell	mounting position	A	B	C	D	E	F	G
		±0,1	±0,1	±0,1	±0,05	±0,1	mini	mini
E	front			24,99	3,2	2,1	18,7	9,6
	rear	20,5	11,4	24,99	3,2	3,3		
A	front			33,32	3,2	2,1	23,9	9,6
	rear	28,8	11,4	33,32	3,2	3,3		
B	front			47,04	3,2	2,1	37,8	9,6
	rear	42,5	11,4	47,04	3,2	3,3		
C	front			63,5	3,2	2,1	54,2	9,6
	rear	59,1	11,4	63,5	3,2	3,3		
D	front			61,11	3,2	2,1	51,0	13,0
	rear	56,3	14,1	61,11	3,2	3,3		

accessories suitable for all series

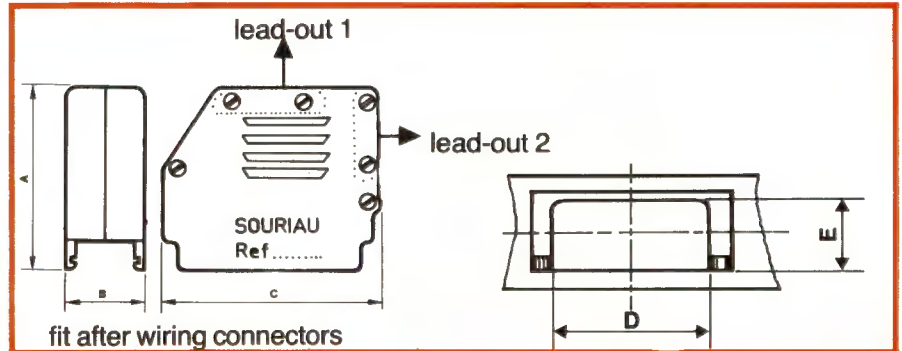
plastic hoods

2-part cable clamp

Material: self-extinguishing UL Class 94V-O

Straight or 90° lead-out

Temperature range: -55°C to +125°C

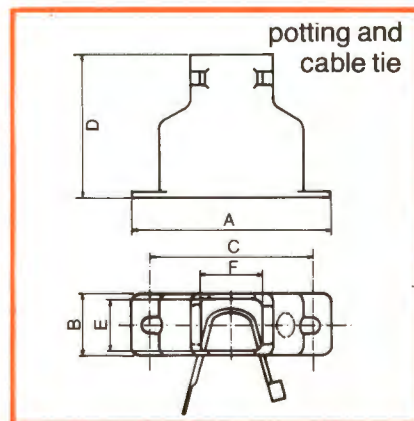


shell	part numbers	dimensions					
		A	B	C	D	E	
						min.	max.
E	8630-93 C 09A	29,80	15,50	24,30	5,7	1,9	10,2
A	8630-93 C 15A	29,80	15,50	32,50	5,7	1,9	10,2
B	8630-93 C 25A	46,50	15,50	46,00	12,1	2,6	10,2
C	8630-93 C 37A	46,50	15,50	60,50	12,1	2,6	10,2
D	8630-93 C 50A	48,50	18,00	56,50	14,3	4,4	12,7

straight plastic hoods

Material: self-extinguishing UL Class 94V-O

Temperature range: -55°C to +125°C

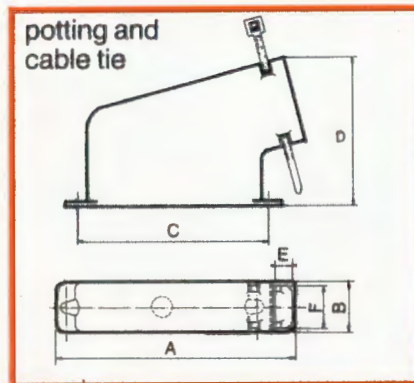


shell	part numbers	dimensions					
		A	B	C	D	E	F
	potting and cable tie.						
E	8630-86A	30,60	12,50	25,00	29,00	9,90	9,90
A	8630-21A	38,90	12,50	33,32	29,00	9,90	11,90
B	8630-22A	52,80	12,50	47,05	35,00	9,90	16,40
C	8630-23A	69,10	12,50	63,50	41,00	9,90	23,40
D	8630-24A	66,70	15,30	61,10	41,00	12,70	23,40

angled plastic hoods

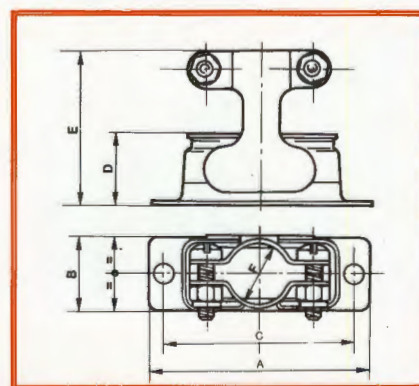
Material: self-extinguishing UL Class 94V-O

15° angled cable exit
Temperature range:
-55°C to +125°C



shell	part numbers potting and cable tie	dimensions					
		A	B	C	D	E	F
E	8630-5002A	35,80	12,50	25,00	26,20	9,90	9,90
A	8630-26A	44,30	12,50	33,32	28,60	11,60	9,90
B	8630-27A	58,40	12,50	47,05	36,40	16,40	9,90
C	8630-28A	75,00	12,50	63,50	42,60	23,40	9,90
D	8630-29A	71,80	15,30	61,10	41,60	23,40	12,70

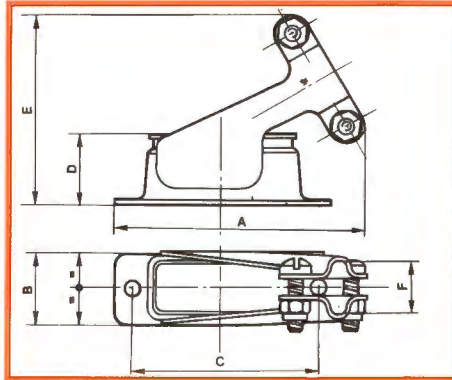
metal hoods with straight cable clamp



Material: steel
Plating: cadmium bichromate

shell	part numbers	dimensions					
		A	B	C	D	E	F
E	8630-10	30,55	12,70	24,99	12,30	26,40	8,00
A	8630-11	38,89	12,70	33,32	12,30	26,40	10,00
B	8630-12	52,78	12,70	47,04	12,30	27,20	15,00
C	8630-13	69,06	12,70	63,50	12,30	27,20	18,00
D	8630-14	66,67	15,40	61,11	12,30	27,20	20,60

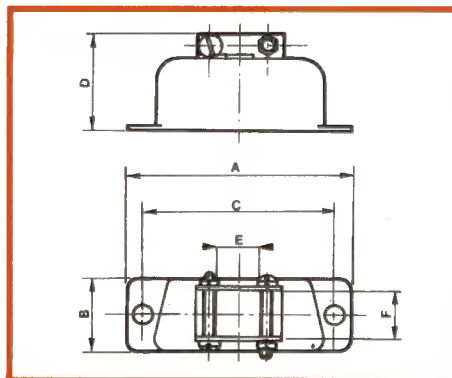
metal hoods with angled cable clamp



Material: steel
Plating: cadmium bichromate
30° angled cable exit

shell	part numbers	dimensions					
		A	B	C	D	E	F
E	8630-16	39,00	12,70	24,99	12,30	30,60	8,00
A	8630-17	43,10	12,70	32,32	12,30	32,50	10,00
B	8630-18	55,40	12,70	47,04	12,30	34,30	15,05
C	8630-19	75,30	12,70	63,50	12,30	37,50	18,00
D	8630-20	72,80	15,40	61,11	12,30	37,60	20,60

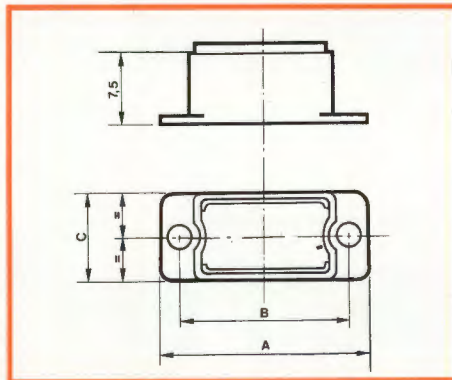
metal hoods with flat cable clamp



Material: steel
Plating: cadmium bichromate

shell	part numbers	dimensions					
		A	B	C	D	E	F
E							
A	DA.J/S(19678-1)	38,89	12,70	33,32	17,00	8,00	8,75
B	DB.J/S(19678-2)	52,78	12,70	47,04	17,00	13,00	8,75
C	DC.J/S(19678-3)	69,05	12,70	63,50	17,00	35,00	
D	DD.J/S(19678-4)	66,67	15,40	61,11	17,00	35,00	11,00

potting boots

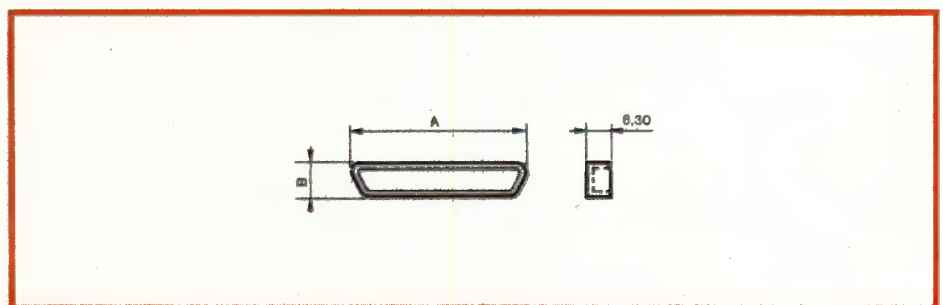


Material: self-extinguishing UL Class 94V-O
Temperature range: -55°C to +125°C

shell	part numbers	dimensions		
		A	B	C
B	8630-268	52,8	47,04	12,5
C	8630-269	69,1	63,5	12,5

Consult us for outlines A, D and E.

protective caps



shell	part numbers		dimensions	
	male connector	female connector	A	B
E	70508	70513	17,77	9,00
A	70509	70514	26,10	9,00
B	70510	70515	39,82	9,00
C	70511	70516	56,28	9,00
D	70512	70517	53,89	11,85

cross reference list MIL-C-24308/SOURIAU

QPL approved (USA), qualification no. 24308-169-77
Effective date: 13 January 1977

rigid mounting	MALE CONNECTORS - P				FEMALE CONNECTORS - S			
	crimp contacts		solder contacts		crimp contacts		solder contacts	
	MIL-C.24308	SOURIAU	MIL-C.24308	SOURIAU	MIL-C.24308	SOURIAU	MIL-C.24308	SOURIAU
9	M24308/4-1	SEMA 09P	M24308/3-1	DEM 09P 032	M24308/2-1	SEMA 09S	M24308/1-1	DEM 09S 032
15	M24308/4-2	SAMA 15P	M24308/3-2	DAM 15P 032	M24308/2-2	SAMA 15S	M24308/1-2	DAM 15S 032
25	M24308/4-3	SBMA 25P	M24308/3-3	DBM 25P 032	M24308/2-3	SBMA 25S	M24308/1-3	DBM 25S 032
37	M24308/4-4	SCMA 37P	M24308/3-4	DCM 37P 032	M24308/2-4	SCMA 37S	M24308/1-4	DCM 37S 032
50	M24308/4-5	SDMA 50P	M24308/3-5	DDM 50P 032	M24308/2-5	SDMA 50S	M24308/1-5	DDM 50S 032

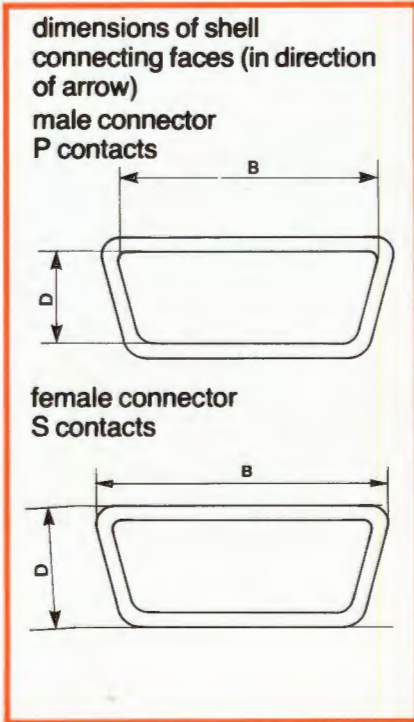
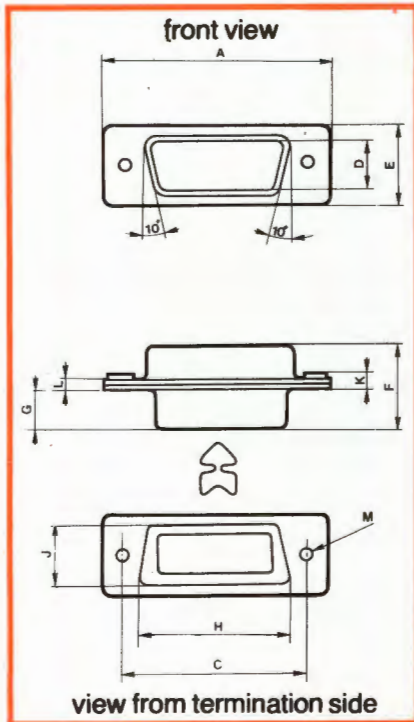
cross reference list CCTU 08-14/SOURIAU

Appendix 1A to special regulation no. 78, sheet 2/2
- implementation: 22 April 1975
- manufacturer: Société **Souriau**
13, rue Galliéni, Boulogne-Billancourt-Cedex
- factories: La Ferté-Bernard, Champagné
- specifications: CCTU 0814

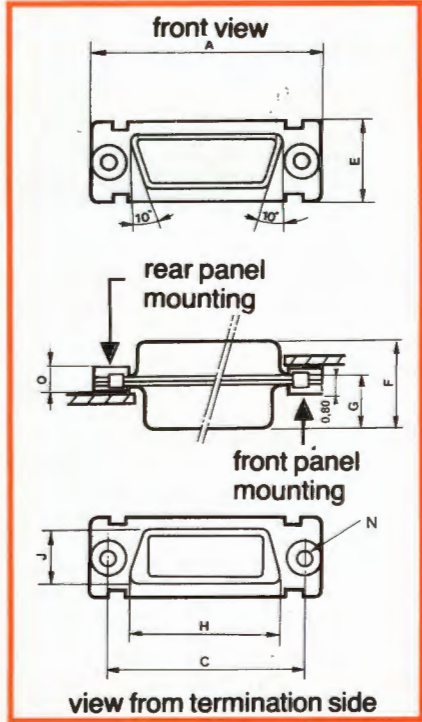
item no	type	number of contacts	Rectangular multicontact steel shell connectors qualified by the Contrôle Centralisé de Qualité (France)								approval certificate	
			Modes type of mounting	solder contacts style A type		crimp contacts style B type		solder contacts style A type		crimp contacts style B type		
				N: fixed F: float	CCTU	SOURIAU	CCTU	SOURIAU	CCTU	SOURIAU		CCTU
02	501	9	N	HE 501 N 09 AP	DEM 09 P	HE 501 N 09 BP	8630 09 P	HE 501 N 09 AS	DEM 09 S	HE 501 N 09 BS	8630 09 S	
			F	HE 501 F 09 AP	DEMF 09 P	HE 501 F 09 BP	8631 09 P	HE 501 F 09 AS	DEMF 09 S	HE 501 F 09 BS	8631 09 S	
		15	N	HE 501 N 15 AP	DAM 15 P	HE 501 N 15 BP	8630 15 P	HE 501 N 15 AS	DAM 15 S	HE 501 N 15 BS	8630 15 S	
			F	HE 501 F 15 AP	DAMF 15 P	HE 501 F 15 BP	8631 15 P	HE 501 F 15 AS	DAMF 15 S	HE 501 F 15 BS	8631 15 S	
		25	N	HE 501 N 25 AP	DBM 25 P	HE 501 N 25 BP	8630 25 P	HE 501 N 25 AS	DBM 25 S	HE 501 N 25 BS	8630 25 S	
			F	HE 501 F 25 AP	DBMF 25 P	HE 401 F 25 BP	8631 25 P	HE 501 F 25 AS	DBMF 25 S	HE 501 F 25 BS	8631 25 S	
		37	N	HE 501 N 37 AP	DCM 37 P	HE 501 N 37 BP	8630 37 P	HE 501 N 37 AS	DCM 37 S	HE 501 N 37 BS	8630 37 S	
			F	HE 501 F 37 AP	DCMF 37 P	HE 501 F 37 BP	8631 37 P	HE 501 F 37 AS	DCMF 37 S	HE 501 F 37 BS	8631 37 S	
		50	N	HE 501 N 50 AP	DCM 50 P	HE 501 N 50 BP	8630 50 P	HE 501 N 50 AS	DCM 50 S	HE 501 N 50 BS	8630 50 S	
			F	HE 501 D 50 AP	DCMF 50 P	HE 501 F 50 BP	8631 50 P	HE 501 F 50 AS	DCMF 50 S	HE 501 F 50 BS	8631 50 S	

shell dimensions

rigid mounting



float mounting



shell	contacts: P: male S: female	dimensions													
	D - DMW 8634-8630 DM - 8631	A	B	C	D	E	F	G	H	J	K	L	M	N	O
		+0,25 0	±0,05	±0,06	±0,05	+0,26 0	maxi	+0,15 0	±0,10	±0,05	±0,10				
E	P	30,57	16,94	24,99	8,41	12,32	10,99	5,90	19,25	10,80	1,00	0,80	3,10	2,20	2,80
	S	30,57	16,30	24,99	7,89	12,32	11,19	6,10	19,25	10,80	1,00	0,80	3,10	2,20	2,80
A	P	38,91	25,27	33,32	8,41	12,32	10,99	5,90	27,59	10,80	1,00	0,80	3,10	2,20	2,80
	S	38,91	24,63	33,32	7,89	12,32	11,19	6,10	27,59	10,80	1,00	0,80	3,10	2,20	2,80
B	P	52,80	39,00	47,04	8,41	12,32	10,89	5,70	41,33	10,80	1,00	0,80	3,10	2,20	2,80
	S	52,80	38,35	47,04	7,89	12,32	11,19	6,10	41,33	10,80	1,00	0,80	3,10	2,20	2,80
C	P	69,08	55,45	63,50	8,41	12,32	10,89	5,70	57,79	10,80	1,00	0,80	3,10	2,20	2,80
	S	69,08	54,81	63,50	7,89	12,32	11,19	6,10	57,79	10,80	1,00	0,80	3,10	2,20	2,80
D	P	66,69	52,86	61,11	11,10	15,12	10,89	5,70	55,40	13,60	1,00	0,80	3,10	2,20	2,80
	S	66,69	52,35	61,11	10,67	15,12	11,19	6,10	55,40	13,60	1,00	0,80	3,10	2,20	2,80

locking systems

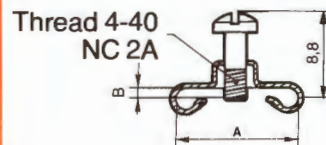
All types are supplied complete with assembly instructions.

screw type: connectors fitted with hoods 8630-93Cxx or without hoods

shell	part numbers		A ±0,1	B
	male	female		
E-A				
B-C	8630-05		13,30	1,10
D	8630-03	8630-01	15,90	1,10

male: assembled captive screw
female: locking body

male: order 2 per connector



female: order 2 per connector



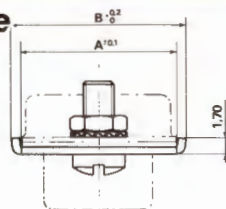
screw type:

for connectors with hoods except type 8630-93Cxx

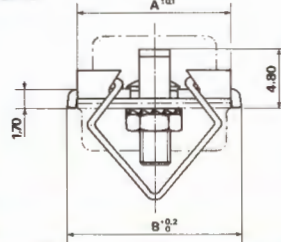
shell	part numbers		A ±0,1	B
	male	female		
E-A				
B-C	8630-04		14,00	2,20
D	8630-02	8630-01	16,60	2,20

male: assembled captive screw
female: locking body

female



male



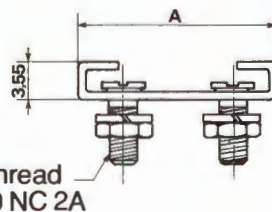
NOTE: radius of rotation of lever about its axis: 15.5mm

female plate: 2 per connector
male plate: 2 per connector

lever lock type

shell	part numbers		A	B
	female plate	male plate		
E-A	8630-3425	8630-3427	12,50	14,30
B-C				
D	8630-3426	8630-3428	15,30	17,10

plate



stud



plate: 1 per connector
stud: 2 per connector

slide lock type

supplied unassembled

shell	part numbers plates + 2 screws	Larg.	A
			E
A	8630-78	12,70	43,68
B	8630-79	12,70	57,41
C	8630-80	12,70	73,86
D	8630-81	15,50	71,47

part number 8630-82 stud



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