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FCI

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REFERENCE SPECIFICATIONS

-NFC 93425 (in compliance with HE 507)

PHYSICAL CHARACTERISTICS

- INSULATOR MATERIAL: THERMOPLASTIC / STANDARD MATERIAL
- CONTACT MATERIAL: PHOSPHOR BRONZE (FEMALE SIGNAL CONTACT)
BRASS (PIN SIGNAL CONTACT)
BRASS (POWERS CONTACT)
- ACCESSORIES: BRASS TIN LEAD OVER NICKEL
- SHELLS: STEEL BRIGHT TIN LEAD

ELECTRICAL CHARACTERISTICS

- NOMINAL CURRENT: 7.5A (STANDARD CONDITIONS)
- CONTACT RESISTANCE: ≤7.3mΩ
- CONTACT/CONTACT : ≥1000 V
- CONTACT/GROUND : ≥1200 V
- INSULATION RESISTANCE: ≥5000 MΩ

ENVIRONMENTAL CHARACTERISTICS

- CLIMATIC CATEGORY: 55/125/21
TEMPERATURE RANGE -55°C TO +125°C
DAMP HEAT STEADY STATE 21 DAYS
SALT SPRAY 24 HOURS

MECHANICAL CHARACTERISTICS

- RETENTION AGAINST TORQUE: - Threaded insert: 0.7 N.m minimum
- Female screw lock: 0.5 N.m minimum

CONTACT PLATING FOR TIN LEAD VERSION

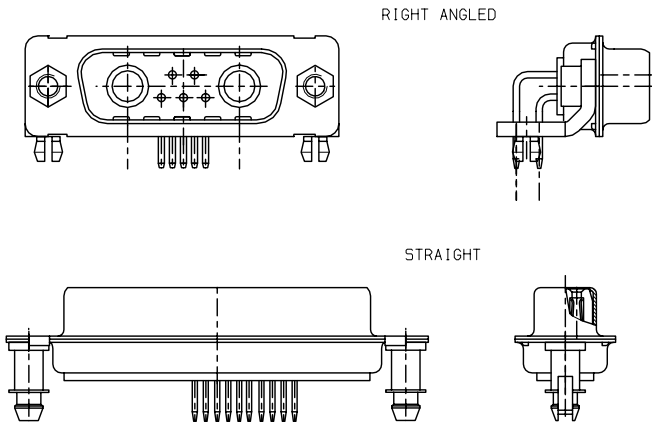
- SIGNAL CONTACT:
 - GOLD OVER NICKEL ON MATING AREA
 - TIN LEAD OVER NICKEL ON TERMINATION PARTS

CONTACT PLATING FOR LEAD FREE VERSION

NOTE RoHS INFORMATION

- The "LF" products meet european union Directives and other country regulations as described in 65-22-008.
- The housing will withstand exposure to 260°C peak temperature for 3.5 seconds in a wave solder application with a 1.6mm minimum thick circuit board. See application notes/procedures if they are available.
- Termination plating spec:
 - Signal contacts: Ni + Gold
 - Shell plating :2 to 4μCu + 3 to 10μmm Sn (pure bright)
 - Accessories: Sn pure bright
- Packaging spec: See 65-14-920

		ACCESSORIES
500 Mating/unmating - gold contact area	D*****43***	ø3.10
200 Mating/unmating - gold contact area	D*****00***	
500 Mating/unmating - gold contact area	D*****43***	
200 Mating/unmating - gold contact area	D*****00***	
PROTECTION	PART NUMBER	PCB HOLE tin lead



ltr	ecn no	dr	date
A	L505-0039	LG0	02/05/05
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

www.fciconnect.com			tolerance ISO 406 ISO 1101		projection 	mm
Dr	GOISNARD	02/05/05	Product family	D-SUB	size	Scale
Eng	PESSON	02/05/05	Spec ref	-	A3	1.5:1
Chr	LEGARE	02/05/05	Material	-	ECN	L505-0039
Appr	LEGARE	02/05/05				
title SUB RA & STRAIGHT GENERAL CHARACTERISTICS			dwg no C01-8639-0003		Rev. A	
catalog no			- CUSTOMER COPY		sheet 1 of 1	

REFERENCE SPECIFICATIONS

-NFC 93425 (in compliance with HE 507)

PHYSICAL CHARACTERISTICS

- INSULATOR MATERIAL: THERMOPLASTIC UL94V0
- CONTACT MATERIAL: BRASS

- ACCESSORIES: BRASS
- SHELLS: STEEL

ELECTRICAL CHARACTERISTICS

- NOMINAL CURRENT: 7.5A
- CONTACT RESISTANCE: $\leq 7.3 \text{ m ohms}$
- CONTACT/CONTACT : $\geq 1000 \text{ V}$
- CONTACT/GROUND : $\geq 1200 \text{ V}$
- INSULATION RESISTANCE: $\geq 5000 \text{ MOhms}$

ENVIRONMENTAL CHARACTERISTICS

- CLIMATIC CATEGORY: 55/125/21
TEMPERATURE RANGE -55°C TO $+125^{\circ}\text{C}$
DAMP HEAT STEADY STATE 21 DAYS
SALT SPRAY 48 HOURS

MECHANICAL CHARACTERISTICS

RETENTION AGAINST TORQUE: - Threaded insert: 0.7 N.m minimum
- Female screw : 0.5 N.m minimum

NOTE RoHS INFORMATION

- The "LF" products meet european union Directives and other country regulations as described in GS-22-008.
- Termination plating spec:
Ni + Gold
- Active area plating spec:
Ni + Gold
- Shell plating : 2 to 4 μm Cu + Ni + 3 to 10 μm Sn, pure bright
- Accessories: Sn pure bright + nickel
- Packaging spec: See GS-14-920

Series

DBL13W3P043A00LF

Shell size: **E A B C D**
see sheet 3
Front accessory definition
see sheet 2

Blank : without accessory
L : threaded insert M3
O : threaded insert UNC 4-40

Layout of contacts (see sheet 3)

Contacts
P : Pin

Plating

Blank signal solder bucket 200 matings/unmatings
043 signal solder bucket 500 matings/unmatings

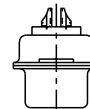
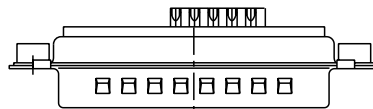
PCB accessory definition

A without accessory on PCB

Power contacts
00 without power contact

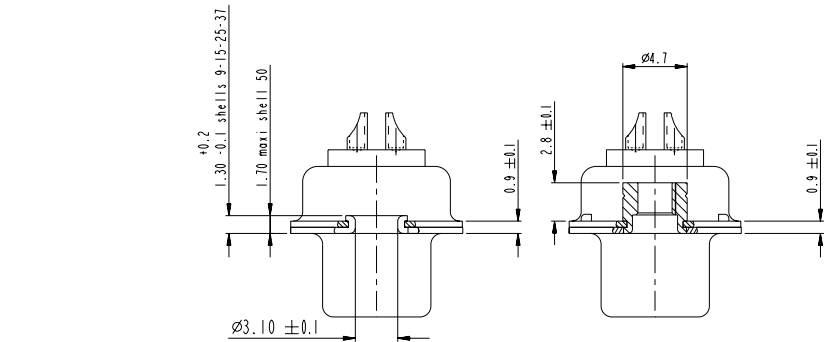
See note RoHS

13W3 FOR EXAMPLE



rev	ecn no	dr	date
A	LS05-0101	MPE	2005-10-11
B	LS06-0208	LGO	2006-12-13
C	LS07-0173	MPE	2007-06-18
D	LS07-0273	MPE	2007-10-31
-	-	-	-
-	-	-	-
-	-	-	-

www.fciconnect.com				surface ☒ tolerance std ISO 1302 ISO 406 ISO 1101		projection 		mm		
TOLERANCES UNLESS OTHERWISE SPECIFIED										
Dr M PESSON		2005-10-11		ANGULAR		0.X ± 0.3		size A2		
Eng P LEGARE		2005-10-11		LINEAR		0.XX ± 0.1		Scale 2:1		
Chr				0° $\pm 2^{\circ}$		0.XXX ± 0.05		ECN LS07-0273		
Appr				Product family		- Spec ref				
				SUB MALE DW			dag no C01-8639-2307		Rev D	
				mixed powersolder bucket						
catalog no				-			CUSTOMER		sheet 1 of 7	



FRONT ACCESSORY	Blank without	L O	insert M3 insert UNC 4.40
PCB ACCESSORIES	A without	A	without

PART NUMBER	MATINGS/ UNMATINGS	FRONT ACCESSORY	PCB ACCESSORIES
D*xWxPA00LF	200	without	without
D*LxWxPA00LF	200	insert M3	without
D*OxWxPA00LF	200	insert UNC 4.40	without
D*xWxP043A00LF	500	without	without
D*LxWxP043A00LF	500	insert M3	without
D*OxWxP043A00LF	500	insert UNC 4.40	without

shell size	LAYOUTS
E	xWx 5W1
A	11W1
A	7W2
B	21W1
B	17W2
B	13W3
B	9W4
C	25W3
C	21WA4
C	27W2
D	47W1
D	24W7
D	36W4

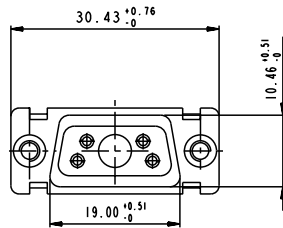
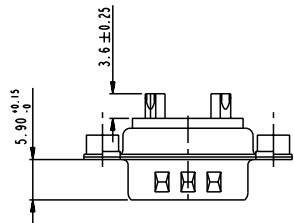
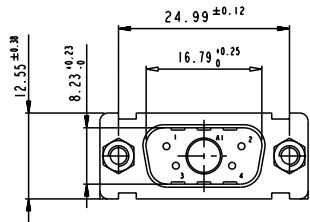
www.fciconnect.com			surface ☒ ISO 1302		tolerance std ISO 406 ISO 1101		projection		mm	
TOLERANCES UNLESS OTHERWISE SPECIFIED					ANGULAR		LINEAR		size A2	
Dr M PESSON 2005-10-11					0.x ±0.3		0.xx ±0.1		Scale 2:1	
Eng P LEGARE 2005-10-11					0° ±2°		0.xxx ±0.05		ECN LS07-0273	
Chr					Product family		- Spec ref		Rev. D	
Appr					SUB MALE DW		diag no C01-8639-2307		Rev. D	
FCI					mixed powersolder bucket		CUSTOMER		sheet 2 of 7	
catalog no					-		-		-	

SCALE: 4

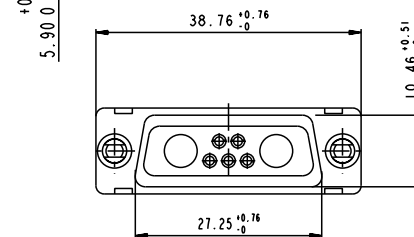
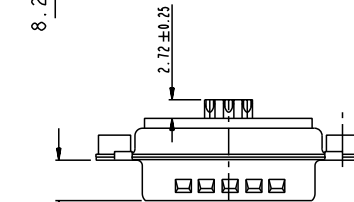
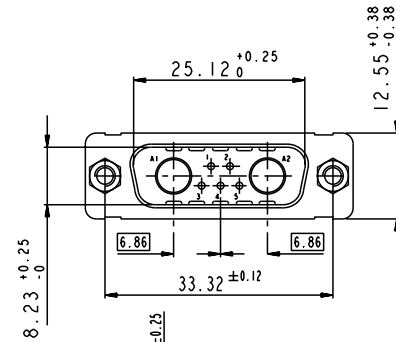
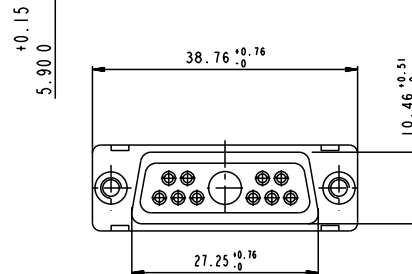
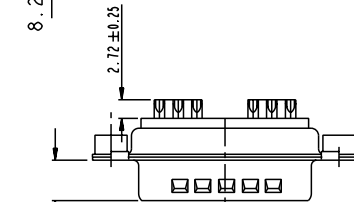
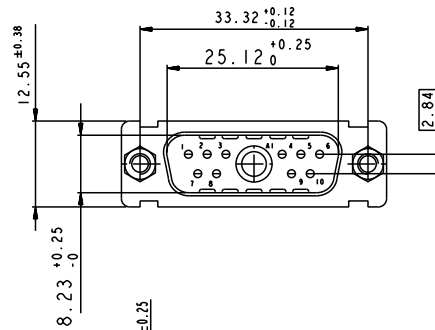
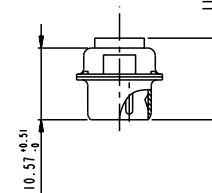
5W1

11W1

7W2

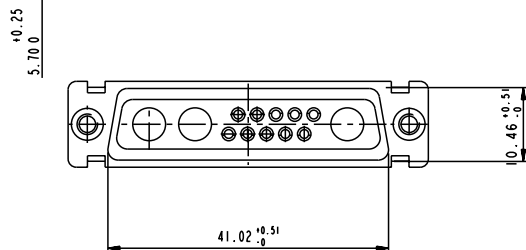
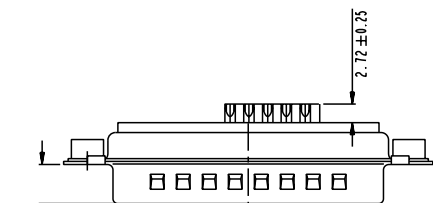
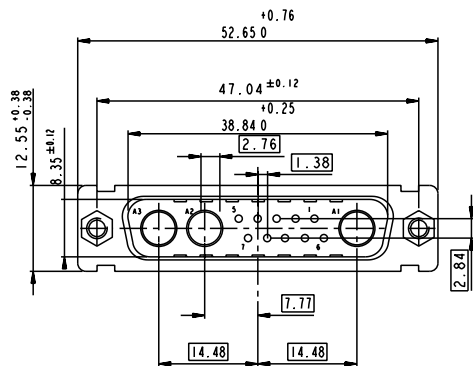


Floating signal contacts

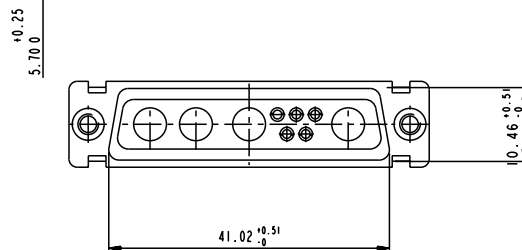
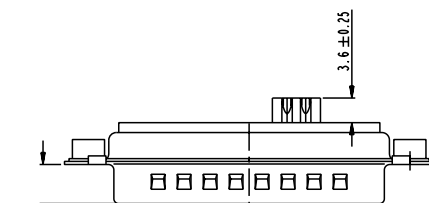
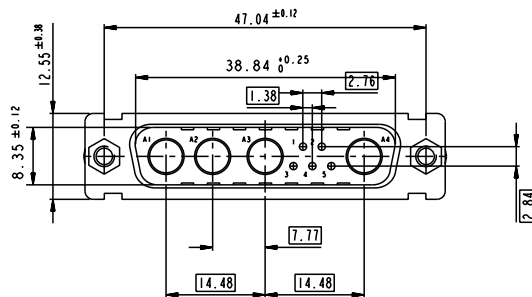
SIDE VIEW FOR
LAYOUTS: E A B C

www.fciconnect.com			surface ISO 1302	✓	tolerance std ISO 406 ISO 1101	projection ISO 1101	mm
			TOLERANCES UNLESS OTHERWISE SPECIFIED				
Dr	M PESSON	2005-10-11	ANGULAR		0.x ±0.3	size	Scale
Eng	P LEGARE	2005-10-11	LINEAR		0.xx ±0.1	A2	2:1
Chr			0° ±2°		0.xxx ±0.05	ECN	LS07-0273
Appr			Product family		- Spec ref		
FCI			SUB MALE DW			dag no	Rev.
			mixed powersolder bucket			C01-8639-2307	D
			catalog no			CUSTOMER	sheet 3 of 7

13W3

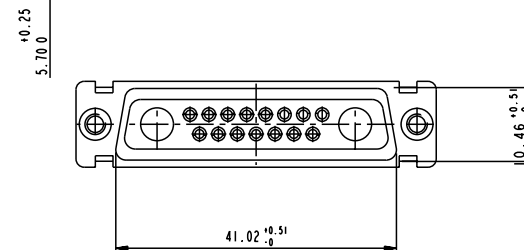
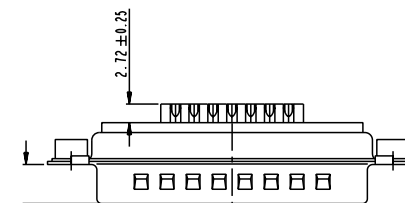
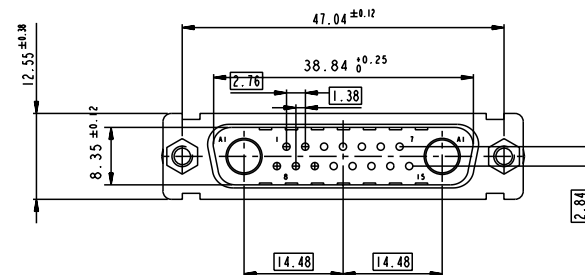


9W4



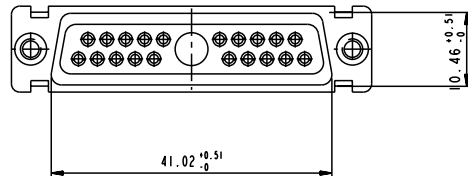
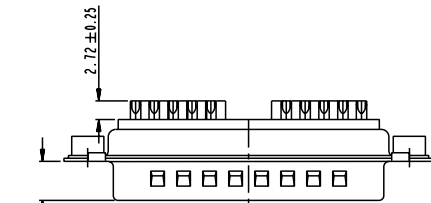
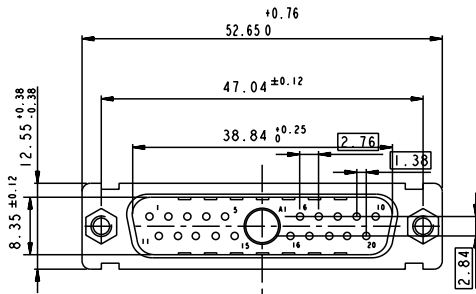
Floating signal contacts

17W2

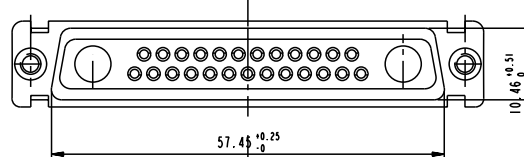
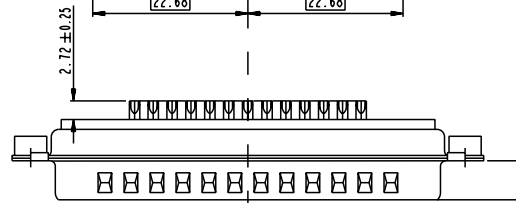
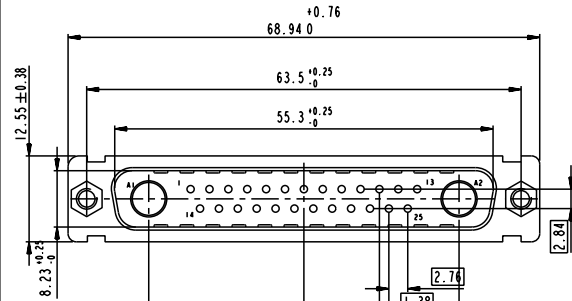


www.fciconnect.com			surface	ISO 1302	tolerance std	ISO 406	ISO 1101	projection	mm
			TOLERANCES UNLESS OTHERWISE SPECIFIED						
Dr	M PESSON	2005-10-11	ANGULAR		0.x	±0.3	size	A2	Scale
Eng	P LEGARE	2005-10-11	LINEAR		0.xx	±0.1			2:1
Chr			0° ±2°		0.xxx	±0.05	ECN	LS07-0273	
Appr			Product family			- Spec ref			
FCJ			SUB MALE DW			C01-8639-2307			Rev.
			mixed power+solder bucket			D			
			catalog no			CUSTOMER			sheet 4 of 7

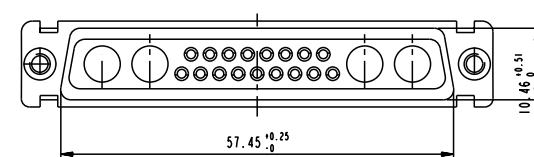
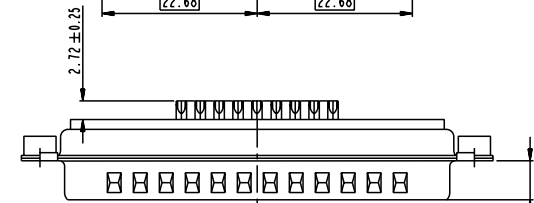
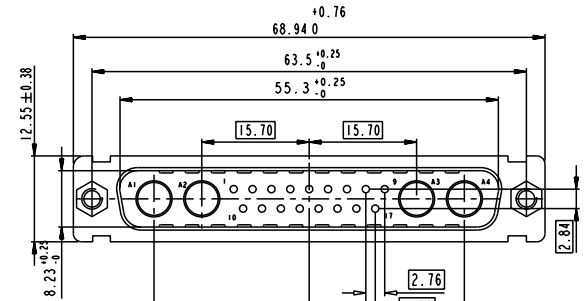
21WI



27W2

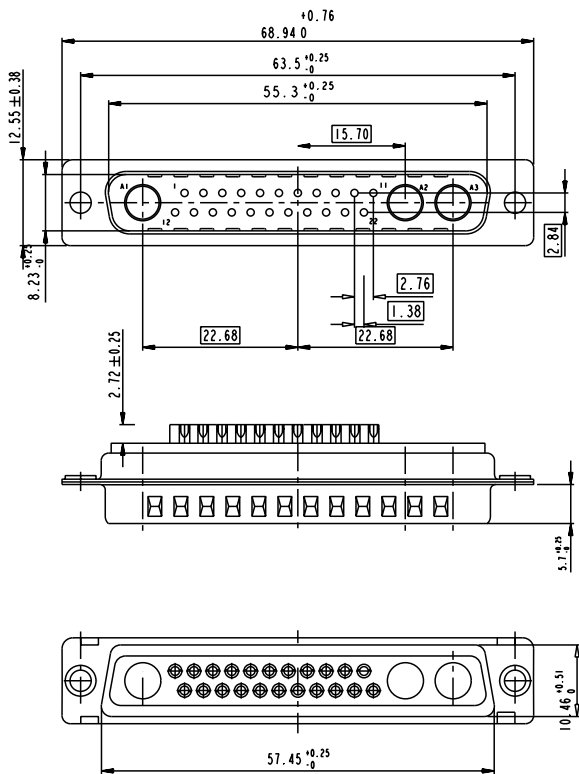


21WA4

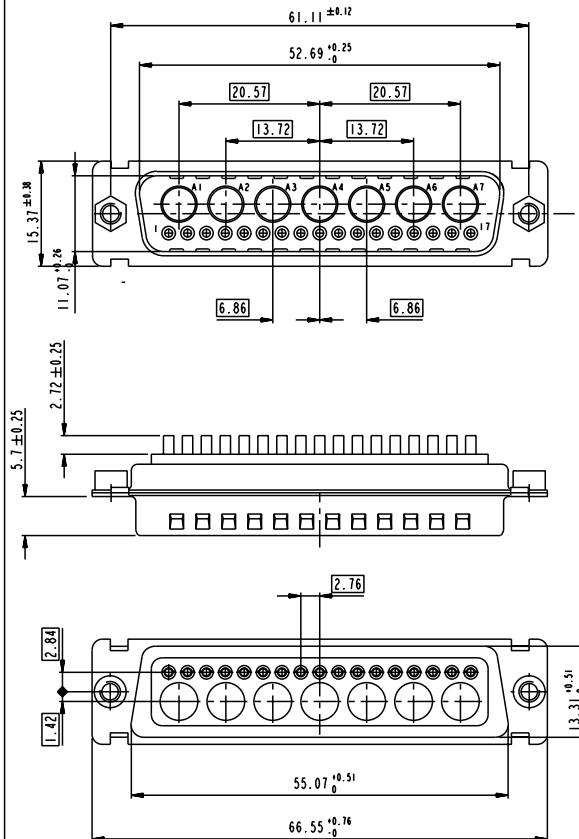
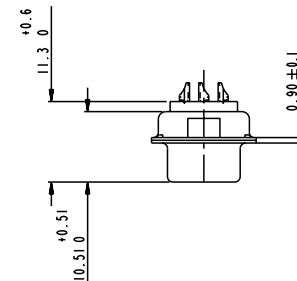


www.fciconnect.com			surface ISO 1302	✓	tolerance std ISO 406 ISO 1101	projection ISO 1101	mm
			TOLERANCES UNLESS OTHERWISE SPECIFIED				
Dr	M PESSON	2005-10-11	ANGULAR		0.x	±0.3	size
Eng	P LEGARE	2005-10-11	LINEAR		0.xx	±0.1	Scale
Chr			0° ±2°		0.xxx	±0.05	ECN LS07-0273
Appr			Product family		- Spec ref		
FCI			SUB MALE DW			diag no	Rev.
			mixed powersolder bucket			C01-8639-2307	D
			catalog no			CUSTOMER	sheet 5 of 7

25W3



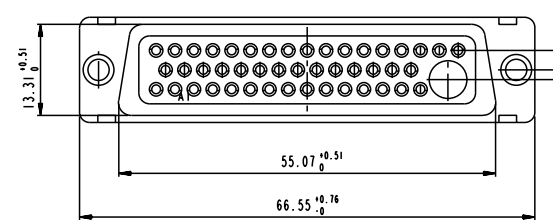
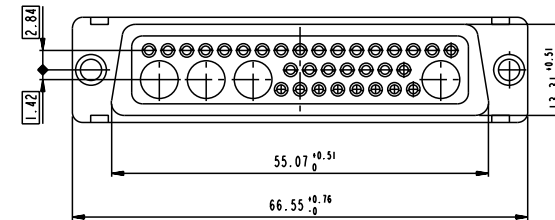
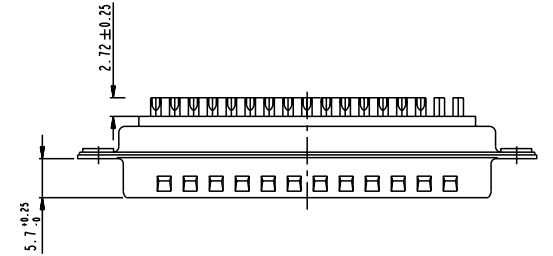
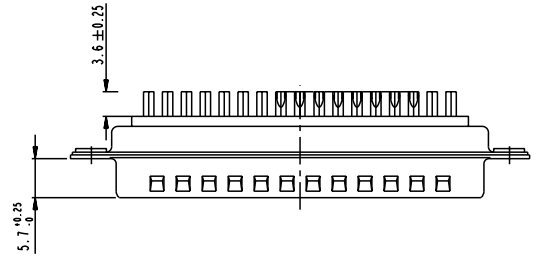
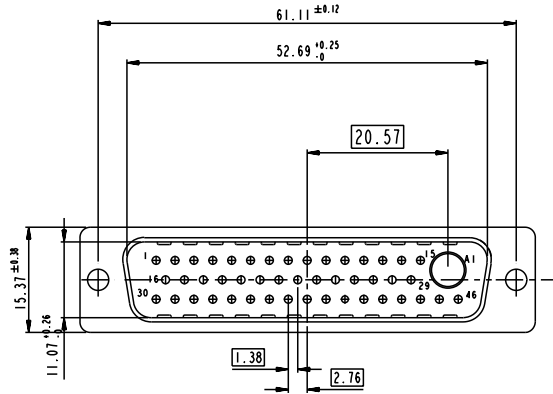
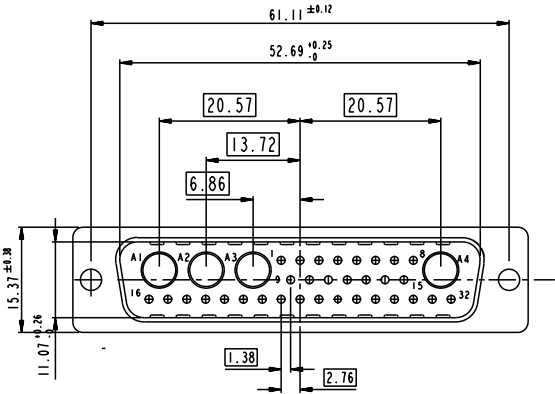
24W7

SIDE VIEW FOR
LAYOUT: D

www.fciconnect.com			surface  ISO 1302			tolerance std ISO 406 ISO 1101			projection 		mm 		
TOLERANCES UNLESS OTHERWISE SPECIFIED													Scale 2:1
Dr	M PESSON	2005-10-11	ANGULAR	0.x ±0.3			size	ECN LS07-0273					
Eng	P LEGARE	2005-10-11	LINEAR	0.xx ±0.1									
Chr			0° ±2°	0.xxx ±0.05									
Appr			Product family			- Spec ref							
			SUB MALE DW					diag no		C01-8639-2307		Rev	
			mixed power+solder bucket							CUSTOMER		D	
			catalog no					-		sheet 6 of 7			

36W4

47W1



Floating signal contacts

www.fciconnect.com			surface ISO 1302	✓	tolerance std ISO 406 ISO 1101	projection A2	mm
			TOLERANCES UNLESS OTHERWISE SPECIFIED				Scale 2:1
Dr	M PESSON	2005-10-11	ANGULAR		0.X	±0.3	size
Eng	P LEGARE	2005-10-11	LINEAR		0.XX	±0.1	ECN
Chr			0° ±2°		0.XXX	±0.05	LS07-0273
Appr			Product family				
			- Spec ref				
FCI			SUB MALE DW			dag no	Rev.
			mixed powersolder bucket			C01-8639-2307	D
			catalog no			CUSTOMER	sheet 7 of 7