

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: 40A

-CONTACT RESISTANCE: <= 7.3 mOhms

-CONTACT/CONTACT : >=1000 V

-CONTACT/GROUND : >=1200 V

-INSULATION RESISTANCE: >=5000 MOhms

- CLIMATIC CATEGORY: 55/125/21

TEMPERATURE RANGE -55°C TO +125°C

DAMP HEAT STEADY STATE 21 DAYS

SALT SPRAY 24 HOURS

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

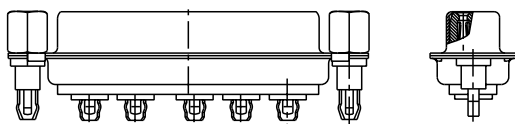
- Female screw : 0.5 N.m minimum

PRESS FIT PERFORMANCES

PRESS FIT CONTACTS	
INSERTION FORCE	<= 200 N Average insertion 160N
EXTRACTION FORCE	>= 30 N

NOTE RoHS INFORMATION

- The "LF" products meet european union Directives and other country regulations as described in GS-22-008.
- Termination plating spec:
 - Ni 1.27µm+Sn 0.5 to 1.5µm(pure bright)
- Active area plating spec:
 - Ni + Gold
- Shell plating :2 to 4µm Cu + Ni + 3 to 10µm Sn(pure bright)
- Accessories: Sn pure bright + nickel
- Packaging spec: See GS-14-920



5W5 FOR EXAMPLE

Series

DBL5W5S93C5G40LF

Shell size: **E A B C**

see sheet 2

Front accessory definition
see sheet 2

L : threaded insert M3

O : threaded insert UNC 4-40

V : female screw UNC 4-40

Layout of contacts (see sheet 3)

Contacts

S :Socket

Termination type

93 C Straight version

Plating

5 200 matings/unmatings

6 500 matings/unmatings

PCB accessories definition
see sheet 2

G :Harpoon used for PCB thickness from 1.60 mm

Power contacts

40 :Fitted with power contacts 40 Amp.

See note RoHS

TABLE 1:PCB HOLE DIAMETERS

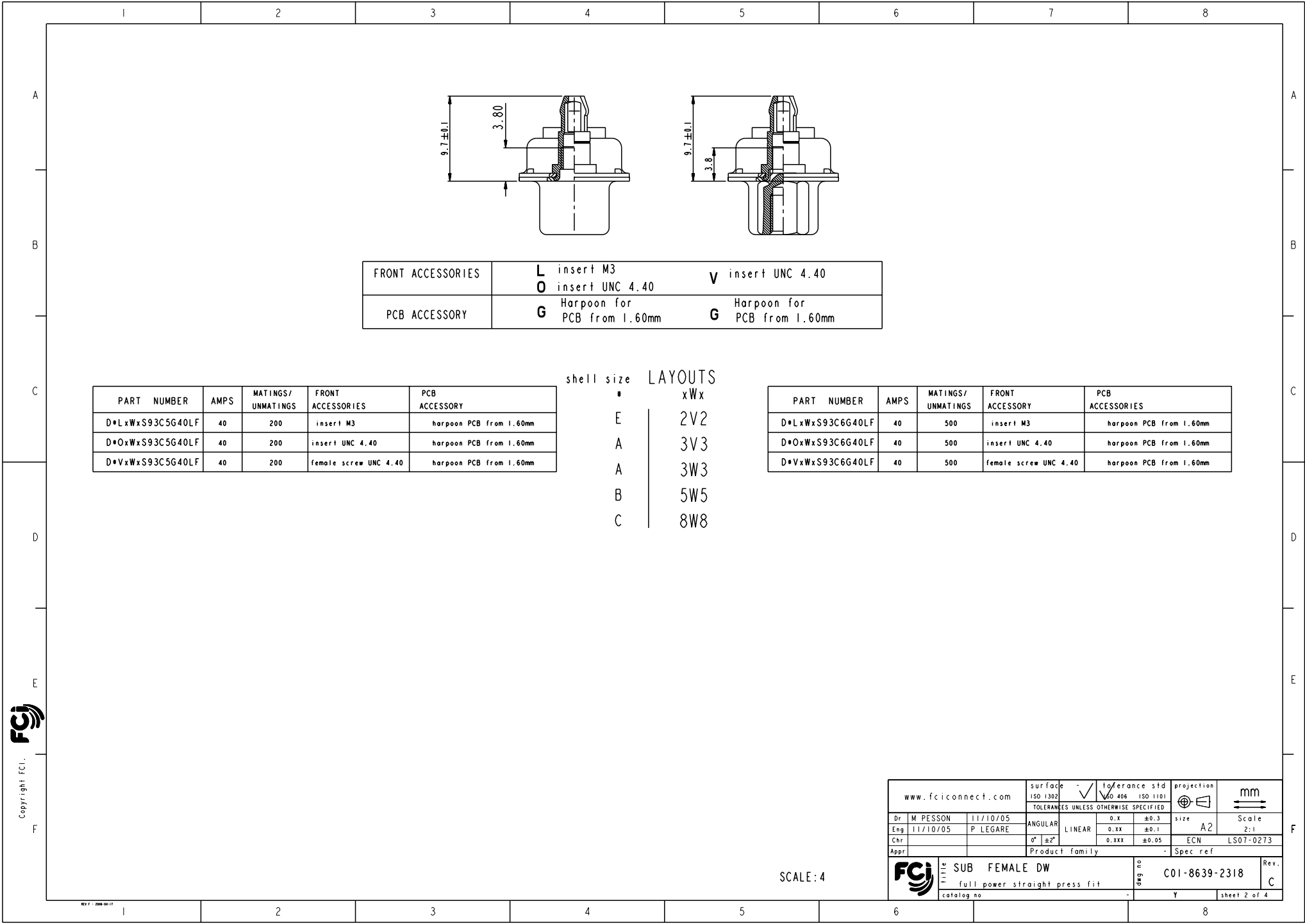
P.C.B HOLE DEFINITION (NOTE 1 AND 2)	SnPb holes for CONTACTS		Sn holes for CONTACTS		holes ACCESSORIES
	DRILL DIAMETER	Ø3.22 REF(NOTE 3)	DRILL DIAMETER	Ø3.22 REF(NOTE 3)	
	DRILLED HOLE	Ø3.19-3.25	DRILLED HOLE	Ø3.19-3.25	
	COPPER PLATING	25µ MINI (RECOMMENDED 50µ MAXI)	COPPER PLATING	25µ MINI (RECOMMENDED 50µ MAXI)	
	TIN-LEAD PLATING	15µ MAXI (RECOMMENDED 5µ MINI)	TIN-LEAD PLATING	15µ MAXI (RECOMMENDED 5µ MINI)	
	TIN PLATING		TIN PLATING	0.8 to 1.2µ	Ø3.10±0.10
	FINISH HOLE (AFTER REFLOW)	Ø 3.02-3.20	FINISH HOLE (AFTER REFLOW)	Ø3.08-3.20	

NOTE-1:THESE DIMENSIONS MUST BE RESPECT TO SECURE PRESS-FIT PIN PERFORMANCES.

NOTE-2: ACCORDING TO IEC-352-5 SPEC.

NOTE-3: MAJOR REQUIREMENT FOR PRESS FIT PIN PERFORMANCE

www.fciconnect.com				surface ☒ tolerance std ISO 1302 ISO 406 ISO 1101		projection 		mm	
				TOLERANCES UNLESS OTHERWISE SPECIFIED					
Dr				M PESSON		11/10/05			
Eng				11/10/05		P LEGARE			
Chr									
Appr									
				ANGULAR		0.X ±0.3		size A2	
				LINEAR		0.XX ±0.1		Scale 2:1	
				Ø ±Z		0.XXX ±0.05		ECN LS07-0273	
				Product family				- Spec ref	
				SUB FEMALE DW				C01-8639-2318	
				full power straight press fit				Rev C	
catalog no				part no				sheet 1 of 4	



FRONT ACCESSORIES	L insert M3	V insert UNC 4.40
	O insert UNC 4.40	
PCB ACCESSORY	G Harpoon for PCB from 1.60mm	G Harpoon for PCB from 1.60mm

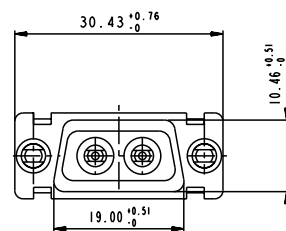
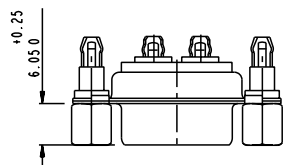
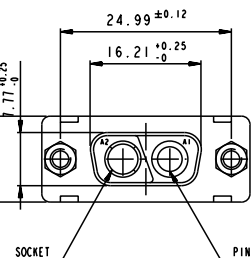
PART NUMBER	AMPS	MATINGS/ UNMATINGS	FRONT ACCESSORIES	PCB ACCESSORY
D*LxWxS93C5G40LF	40	200	insert M3	harpoon PCB from 1.60mm
D*OxWxS93C5G40LF	40	200	insert UNC 4.40	harpoon PCB from 1.60mm
D*VxWxS93C5G40LF	40	200	female screw UNC 4.40	harpoon PCB from 1.60mm

shell size	LAYOUTS
#	xWx
E	2V2
A	3V3
A	3W3
B	5W5
C	8W8

PART NUMBER	AMPS	MATINGS/ UNMATINGS	FRONT ACCESSORY	PCB ACCESSORIES
D*LxWxS93C6G40LF	40	500	insert M3	harpoon PCB from 1.60mm
D*OxWxS93C6G40LF	40	500	insert UNC 4.40	harpoon PCB from 1.60mm
D*VxWxS93C6G40LF	40	500	female screw UNC 4.40	harpoon PCB from 1.60mm

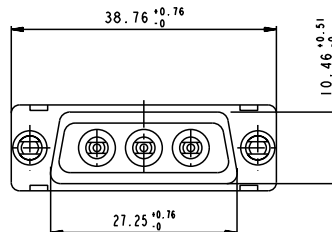
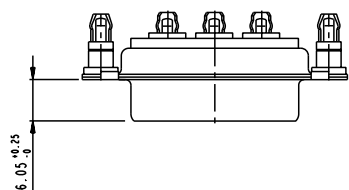
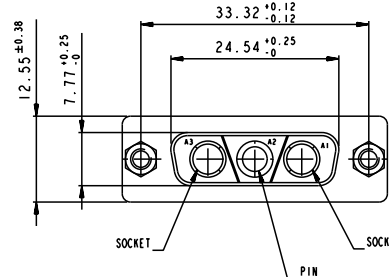
SCALE: 4

www.fciconnect.com			surface ISO 1302		☒ tolerance std ISO 406 ISO 1101	projection 		mm 	
TOLERANCES UNLESS OTHERWISE SPECIFIED									
Dr	M PESSON	11/10/05	ANGULAR	LINEAR	0.X	±0.3	size A2	Scale 2:1	ECN LS07-0273
Eng	11/10/05	P LEGARE			0.XX	±0.1			
Chr			0° ±2°		0.XXX	±0.05			
Appr			Product family			- Spec ref			
		SUB FEMALE DW			deg no		C01-8639-2318		Rev. C
		full power straight press fit					Y		sheet 2 of 4
		catalog no							

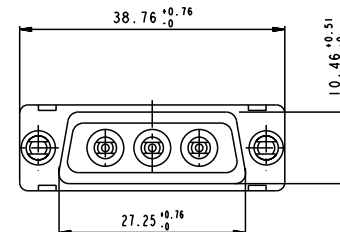
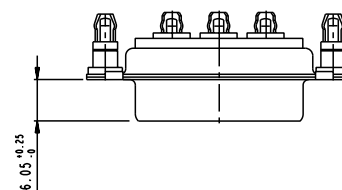
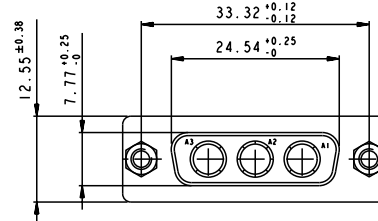


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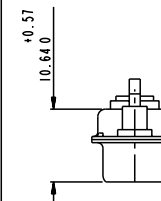
LAYOUT AND CONNECTOR DIMENSIONS
For PCB hole diameters see table 1 sheet 1



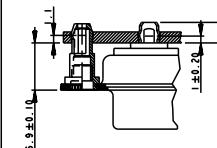
LAYOUT AND CONNECTOR DIMENSIONS
For PCB hole diameters see table 1 sheet 1



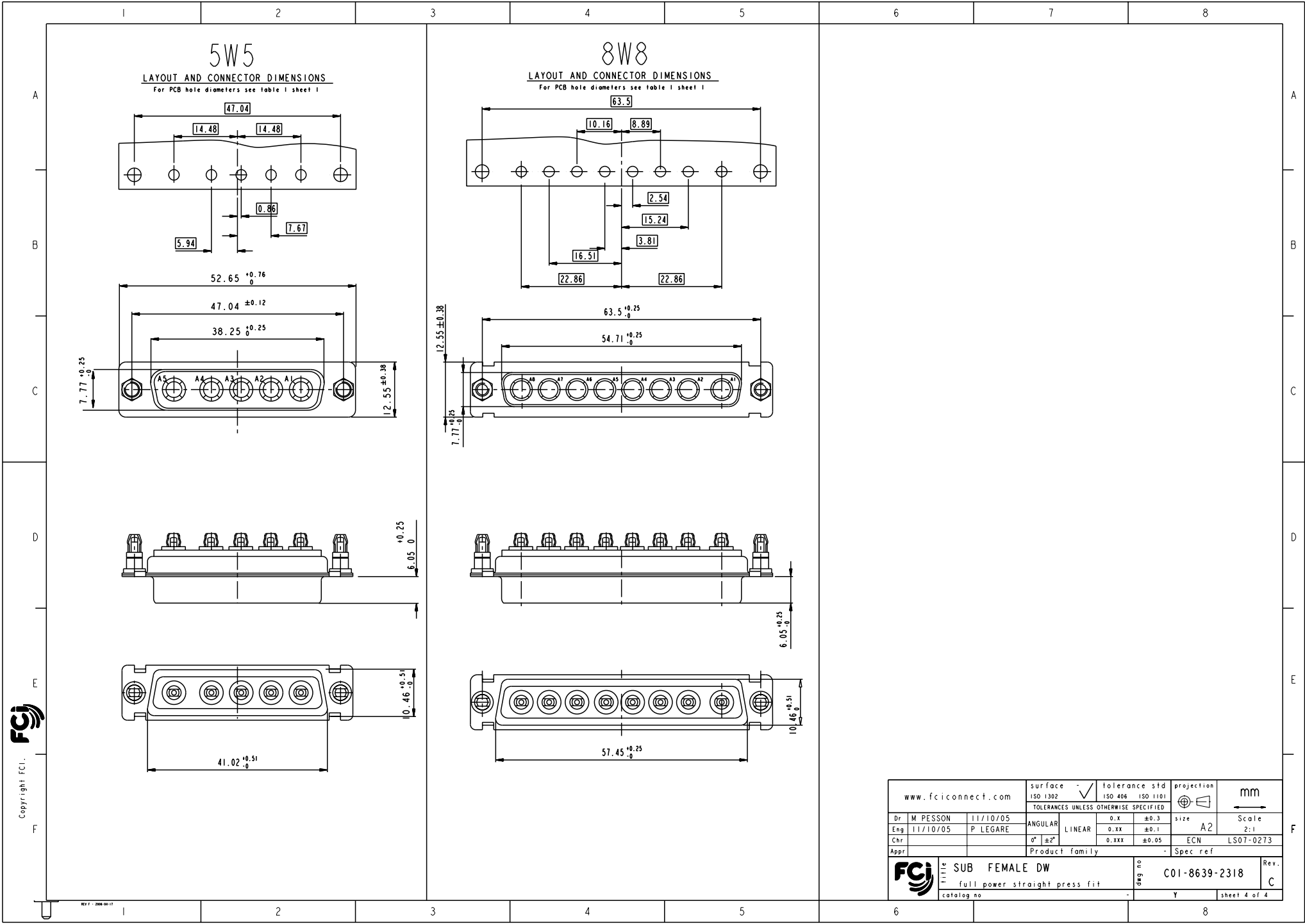
SIDE VIEW FOR
LAYOUTS: E A B C



DETAIL OF PRESS FIT



www.fciconnect.com			surface - ☒ tolerance std ISO 1302 ISO 406 ISO 1101		projection 		mm	
			TOLERANCES UNLESS OTHERWISE SPECIFIED					
Dr	P	PESSON	11/10/05	ANGULAR	0.X	±0.3	size	Scale
Eng	11/10/05	P	LEGARE	LINEAR	0.XX	±0.1	A2	2:1
Chr				0° ±2°	0.XXX	±0.05	ECN	LS07-0273
Appr				Product family		-	Spec ref	
				title SUB FEMALE DW		dsg no C01-8639-2318		Rev C
full power straight press fit								
catalog no						Y		sheet 3 of 4



www.fciconnect.com		surface	ISO 1302	tolerance std	ISO 406	ISO 1101	projection	mm
		TOLERANCES UNLESS OTHERWISE SPECIFIED					size	Scale
Dr	M PESSON	11/10/05	ANGULAR	0.X	±0.3		A2	2:1
Eng	11/10/05	P LEGARE	LINEAR	0.XX	±0.1		ECN	LS07-0273
Chr			0° ±2°	0.XXX	±0.05		Spec ref	
Appr			Product family					
FCI		SUB FEMALE DW		C01-8639-2318		Rev. C		
Title		full power straight press fit		catolog no		sheet 4 of 4		