

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

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 : 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 1.5µ(pure bright)
- Active area plating spec:
 - Ni + Gold
- Shell plating :2 to 4µm Cu + Ni + 3 to 10µmm Sn(pure bright)
- Accessories: Sn pure bright + nickel
- Packaging spec: See GS-14-920

Series

DBL5W5S81C6M40LF

Shell size: **E A B C**
(see sheet 3)

Front accessory definition
(see sheet 2)

blank: without accessory

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

81C Right angle/Europe standard

Plating

5 200 matings/unmatings

6 500 matings/unmatings

PCB accessories definition(see sheet 2)

M Metal brackets

A Without accessory

Power contacts

40 : Fitted with power contacts 40 Amp.

See note RoHS

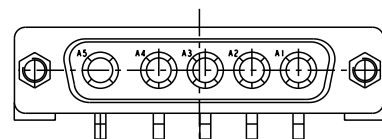
TABLE 1:PCB HOLE DIAMETERS

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

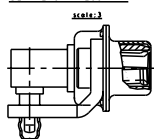
NOTE-1:THESE DIMENSIONS MUST BE RESPECT TO SECURE PRESS-FIT PIN PERFORMANCES.

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

NOTE-3: MAJOR REQUIREMENT FOR PRESS FIT PIN PERFORMANCE



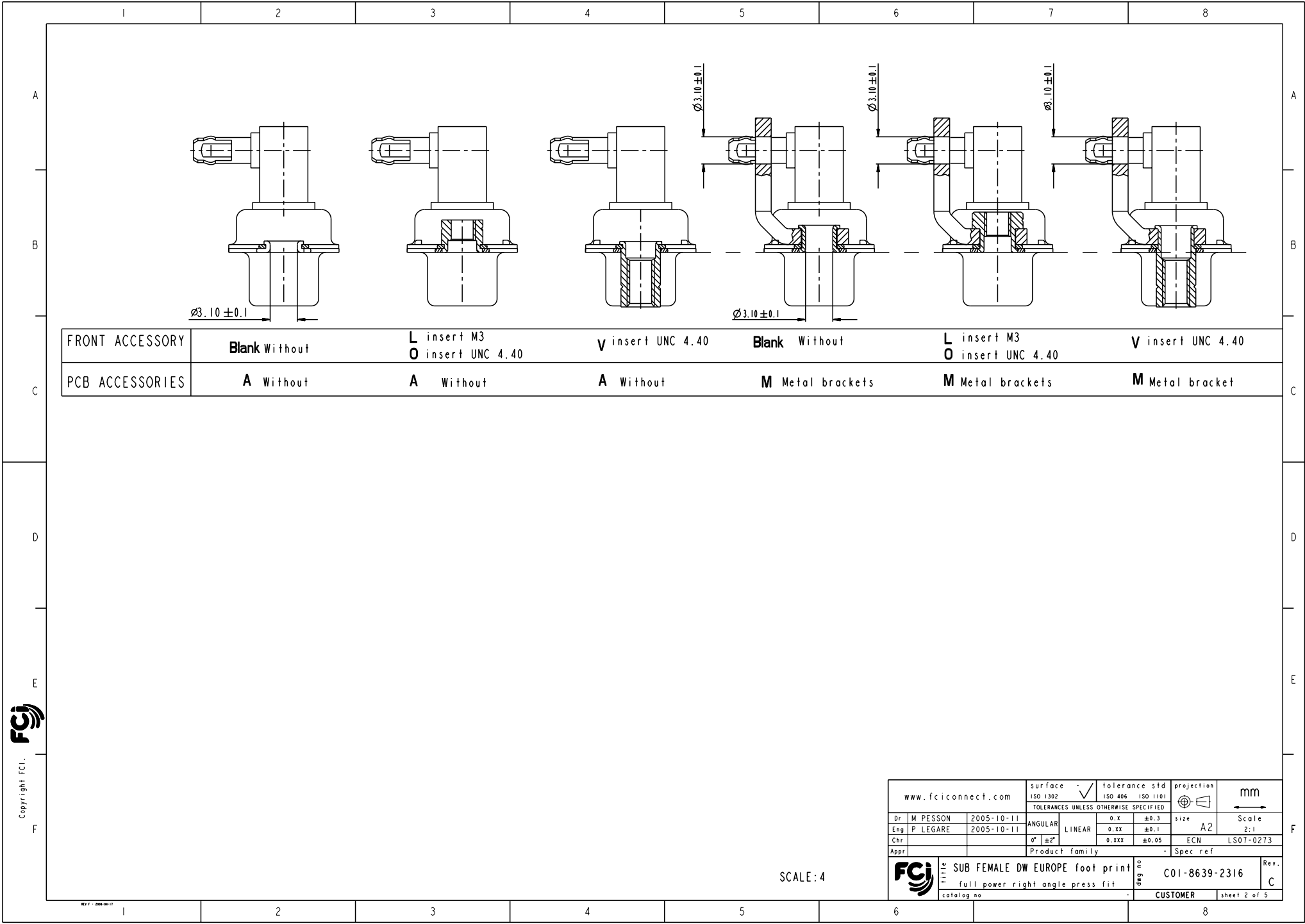
DETAIL OF PRESS FIT



5W5 FOR EXAMPLE

rev	ecn no	dr	date
A	LS05-0113	MPE	2005-10-11
B	LS06-0208	LGO	2006-12-13
C	LS07-0273	MPE	2007-11-05
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

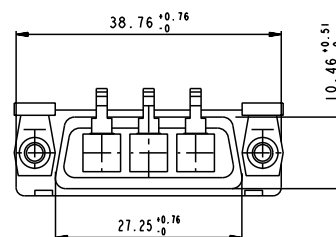
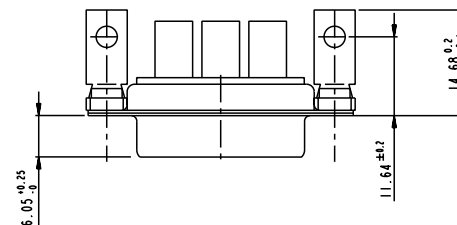
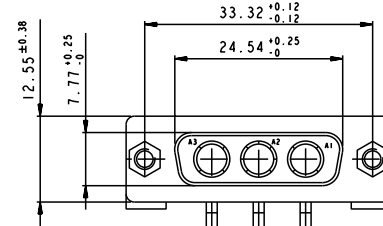
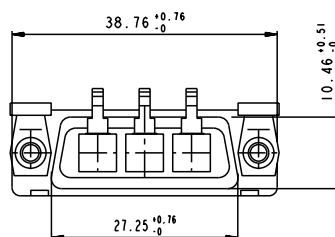
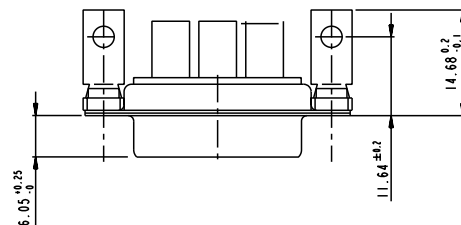
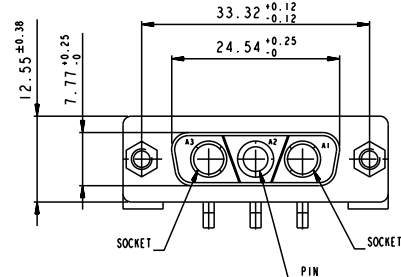
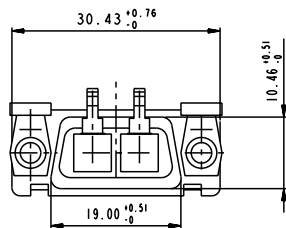
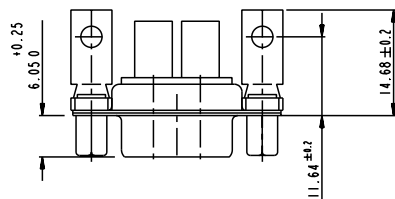
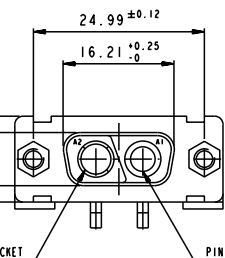
www.fciconnect.com		surface	tolerance std	projection	mm
		ISO 1302	ISO 406 ISO 1101	ISO 1101	
		TOLERANCES UNLESS OTHERWISE SPECIFIED			
Dr M PESSON		2005-10-11	ANGULAR	0.X	±0.3
Eng P LEGARE		2005-10-11	LINEAR	0.XX	±0.1
			0° ±2°	0.XXX	±0.05
			Product family	- Spec ref	
FCI		SUB FEMALE DW EUROPE foot print		dag no	Rev.
		full power right angle press fit		C01-8639-2316	C
		catalog no	CUSTOMER		sheet 1 of 5



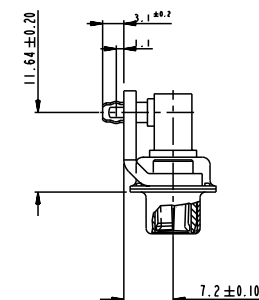
www.fciconnect.com		surface ISO 1302	-	tolerance std ISO 406	ISO 1101	projection mm	mm
		TOLERANCES UNLESS OTHERWISE SPECIFIED					
Dr	M PESSON	2005-10-11	ANGULAR	0.X	±0.3	size	A2
Eng	P LEGARE	2005-10-11	LINEAR	0.XX	±0.1	Scale	2:1
Chr			0° ±2°	0.XXX	±0.05	ECN	LS07-0273
Appr			Product family	Spec ref			
FCI		SUB FEMALE DW EUROPE foot print		C01-8639-2316		Rev. C	
		full power right angle press fit		CUSTOMER		sheet 2 of 5	
		catalog no					

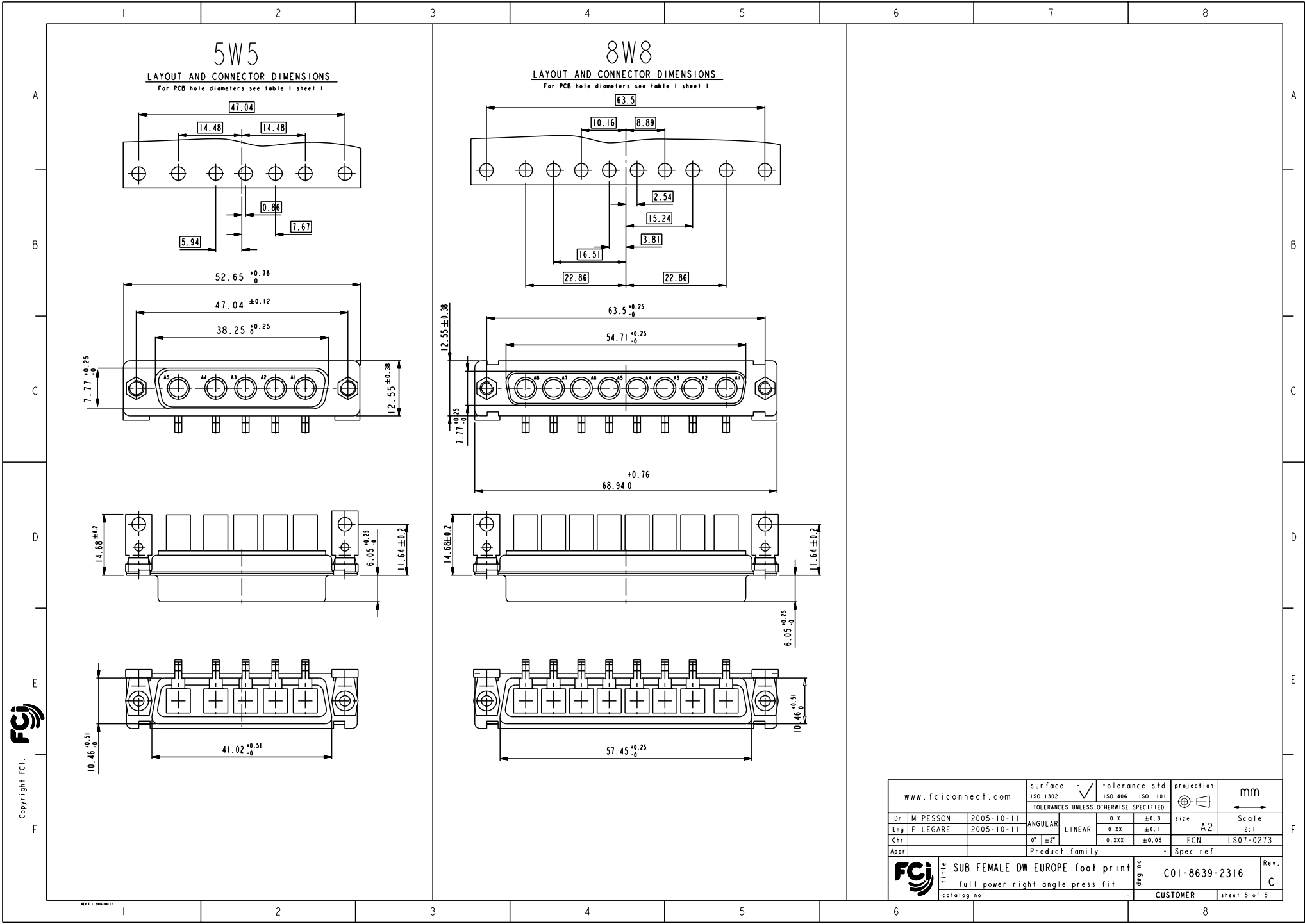
shell size #	LAYOUTS xWx
E	2V2
A	3V3
A	3W3
B	5W5
C	8W8

2V2
3V3
3W3
5W5
8W8



SIDE VIEW FOR ALL LAYOUTS





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www.fciconnect.com		surface ISO 1302	-	tolerance std ISO 406	ISO 1101	projection mm	mm
		TOLERANCES UNLESS OTHERWISE SPECIFIED				size	Scale
Dr	M PESSON	2005-10-11	ANGULAR	0.X	± 0.3	A2	2:1
Eng	P LEGARE	2005-10-11	LINEAR	0.XX	± 0.1	ECN	LS07-0273
Chr			0° $\pm 2^\circ$	0.XXX	± 0.05	Spec ref	
Appr			Product family				
FCI		SUB FEMALE DW EUROPE foot print			dwg no	C01-8639-2316	Rev.
		full power right angle press fit					C
		catalog no				CUSTOMER	sheet 5 of 5