

1

2

3

4

5

6

7

8

REFERENCE SPECIFICATIONS

-NFC 93425 (in compliance with HE 507)

PHYSICAL CHARACTERISTICS

-INSULATOR MATERIAL: THERMOPLASTIC UL94V0

-CONTACT MATERIAL: PHOSPHOR BRONZE(SIGNAL CONTACT)

BRASS (POWERS CONTACT)

-ACCESSORIES: BRASS

-SHELLS: STEEL

ELECTRICAL CHARACTERISTICS

-NOMINAL CURRENT: 7.5A (SIGNAL CONTACT)

30A or 40A (POWER CONTACT)

-CONTACT RESISTANCE: <=7.3 m Ohms(SIGNAL and POWER)

-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 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.

- 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

- Power contacts: Ni 1.27µm+Sn 2.5 to 7.5µ,pure bright

- Active area plating spec:

- Signal and power contacts: Ni + Gold

- Shell plating :2 to 4µm Cu + nickel + 3 to 10µmm Sn,pure bright

- Accessories: Sn pure bright + nickel

- Packaging spec: See GS-14-920

Series

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

V :female screw UNC 4-40

Layout of contacts (see sheet 3)

Contacts

S :Socket

Termination type

5 Right angle/Europe standard

Plating

00 200 matings/unmatings

43 500 matings/unmatings

PCB accessories definition(see sheet 2)

A :without accessory

H :Metal brackets+harpoons for PCB 2.40mm

G :Metal brackets+harpoons for PCB 1.60mm

M :Metal brackets

Power contacts

00 :Not fitted with power contact (signal contacts always fitted)

30 :Fitted with power contacts 30 Amp.

40 :Fitted with power contacts 40 Amp.

DBL13W3S500G30LF

See note RoHS

TABLE 1:PCB HOLE DIAMETERS

POWER CONTACTS			ACCESSORIES	SIGNAL CONTACT
30 A	2.00	Ø2.40	Ø3.10	Ø0.9 min
40 A	2.80	Ø3.10		
Max current power	ØA ^{+0.1} ₀	PCB HOLE ±0.1	PCB HOLE ±0.1	PCB HOLE

Dr M PESSON 2005-10-11

Eng P LEGARE 2005-10-11

Chr

Appr

rev

ecn no

dr

date

A LS05-0101 MPE 2005-10-11

B LS06-0208 LGO 2006-12-12

C LS07-0273 MPE 2007/10/31

D F09-0092 LSA 2009/09/16

E F10-0060 LSA 2010/06/01

- - -

- - -

www.fciconnect.com

surface ISO 1302

tolerance std ISO 406 ISO 1101

projection

mm

TOLERANCES UNLESS OTHERWISE SPECIFIED

ANGULAR

LINEAR

0° ±2°

0.X ±0.3

0.XX ±0.1

0.XXX ±0.05

size A2

Scale 2:1

ECN F10-0060

Product family

- Spec ref

FCI

title SUB FEMALE DMW EUROPE

mixed power right angled solder

catalog no

dwg no C01-8639-2300

Rev. E

sheet 1 of 7

Dr

Eng

Chr

Appr

FCI

title

mixed power right angled solder

catalog no

dwg no

Rev.

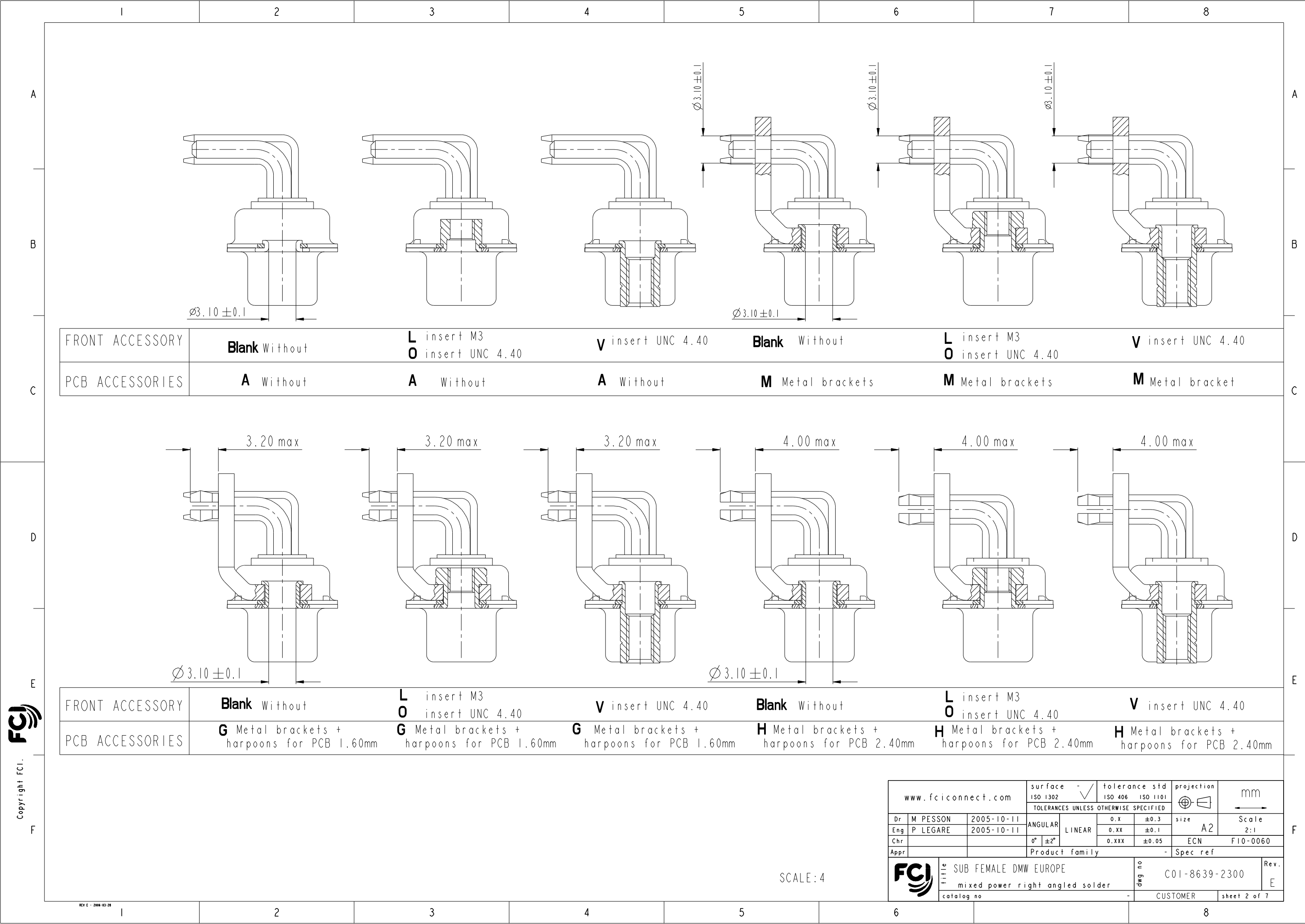
13W3 FOR EXAMPLE

Ø A

Copyright FCI.

REV E - 2006-03-28

PDM: Rev:E STATUSReleased Printed: Oct 01, 2010



FCI
Copyright FCI

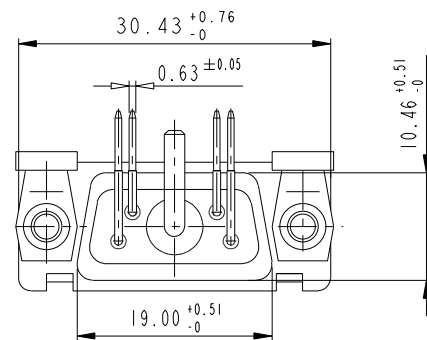
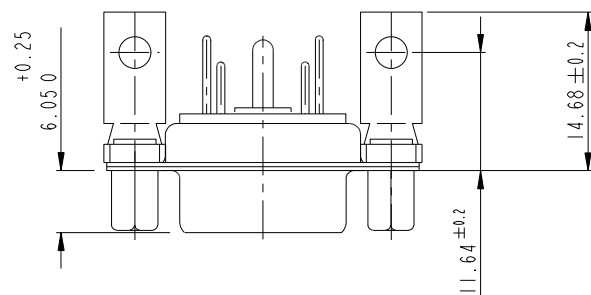
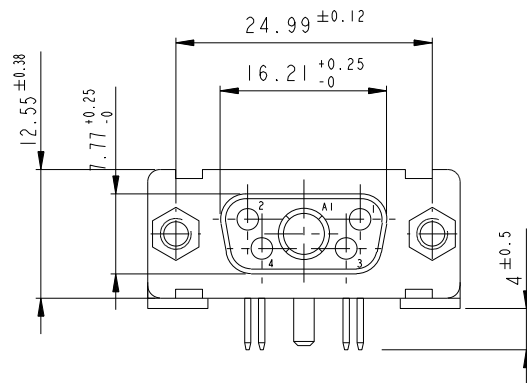
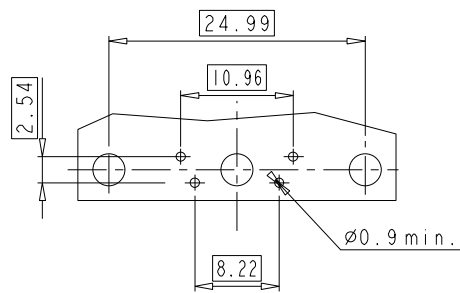
www.fciconnect.com			surface - 		tolerance std		projection		mm		
			ISO 1302		ISO 406 ISO 1101						
			TOLERANCES UNLESS OTHERWISE SPECIFIED								
Dr	M PESSON	2005-10-11	ANGULAR	LINEAR	0.X ±0.3		size A2	Scale			
Eng	P LEGARE	2005-10-11			0.XX ±0.1			2:1			
Chr					0.XXX ±0.05			ECN F10-0060			
Appr			Product family					- Spec ref			
			SUB FEMALE DMW EUROPE			dwg no			C01-8639-2300		
			mixed power right angled solder						Rev. E		
			catalog no			-			CUSTOMER		
									sheet 2 of 7		

FCI

Copyright FCI.

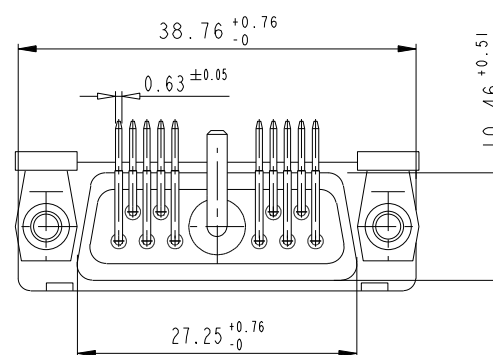
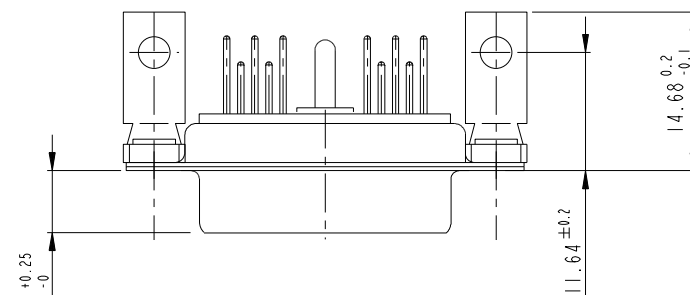
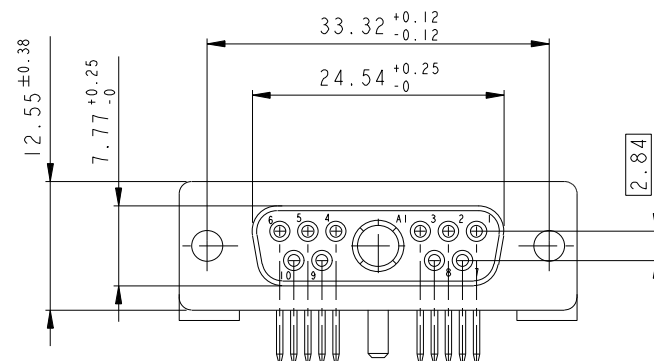
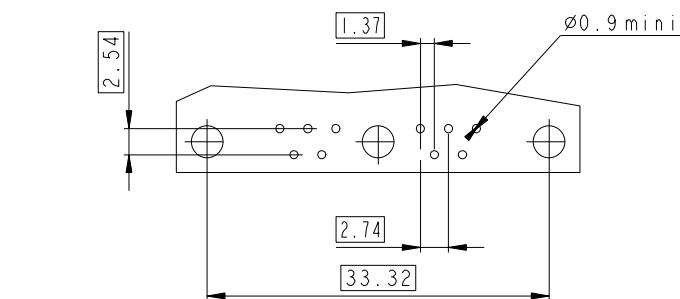
</

5W1

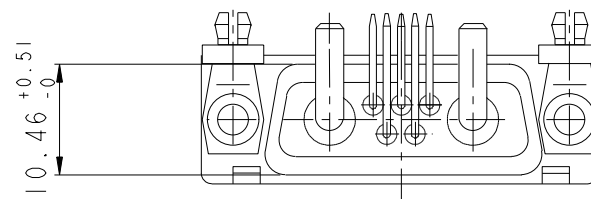
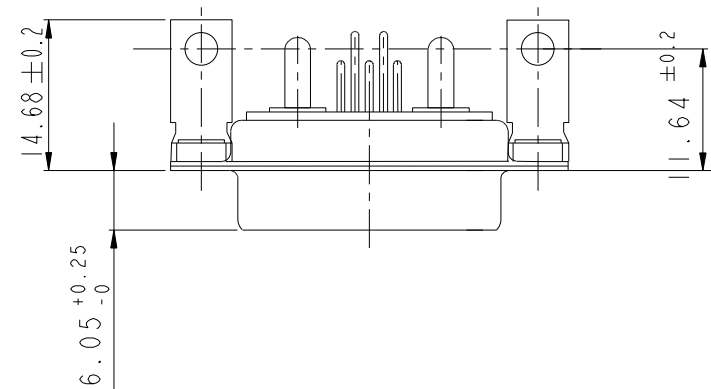
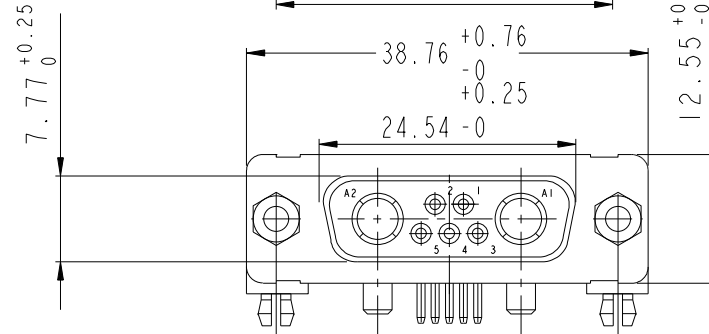
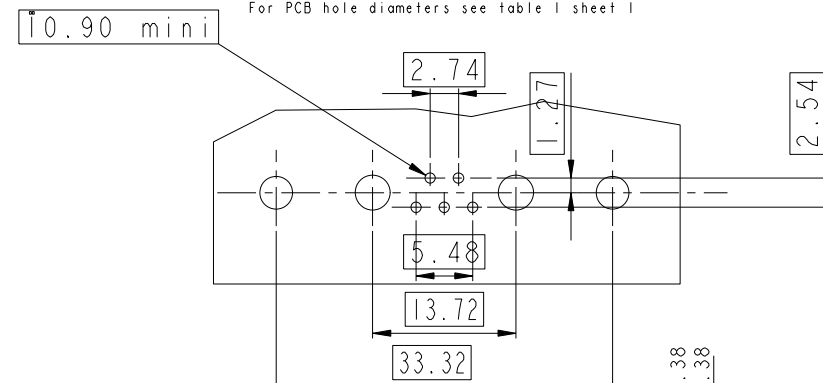
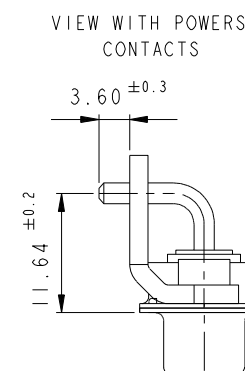
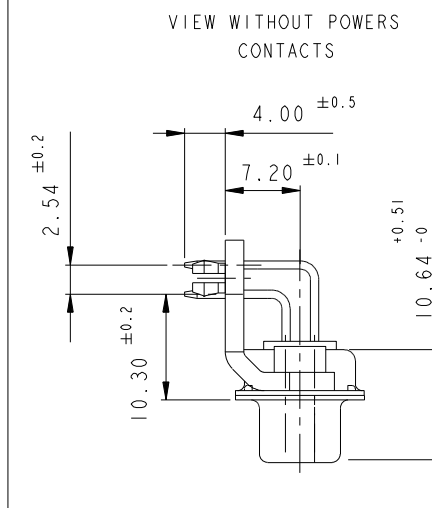
LAYOUT AND CONNECTOR DIMENSIONS
For PCB hole diameters see table I sheet I

Floating signal contacts

11W1

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

7W2

LAYOUT AND CONNECTOR DIMENSIONS
For PCB hole diameters see table I sheet ISIDE VIEW FOR ALL LAYOUTS
(except size D)

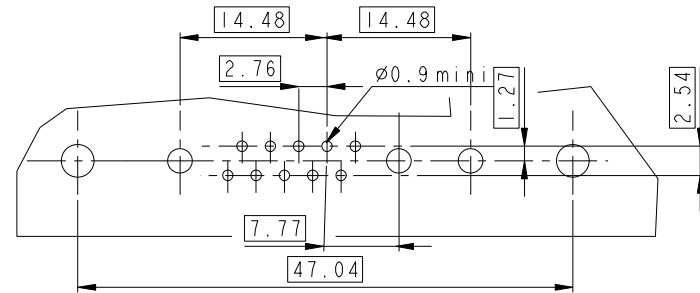
Copyright FCI.

REV E - 2006-03-28

www.fciconnect.com			surface	✓	tolerance std	projection	mm
			ISO 1302		ISO 406 ISO 1101		
			TOLERANCES UNLESS OTHERWISE SPECIFIED				
Dr	M PESSON	2005-10-11	ANGULAR	LINEAR	0.X	±0.3	size
Eng	P LEGARE	2005-10-11			0.XX	±0.1	A2
Chr					0.XXX	±0.05	ECN
Appr			0° ±2°				F10-0060
			Product family		Spec ref		
FCI			SUB FEMALE DMW EUROPE			dwg no	
			mixed power right angled solder			C01-8639-2300	
			catalog no			CUSTOMER	
						sheet 4 of 7	
						Rev.	
						E	

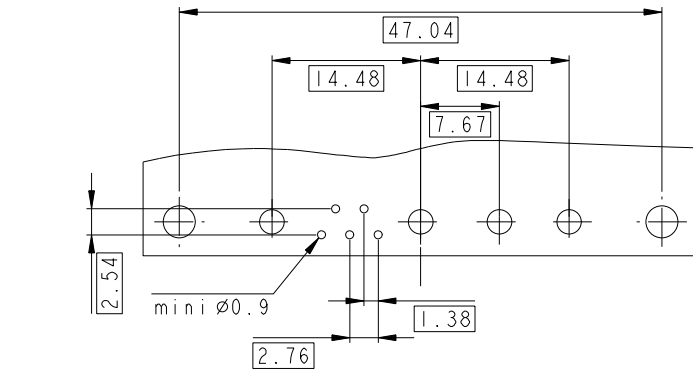
13W3

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



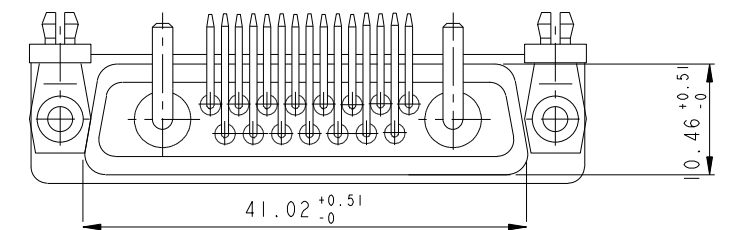
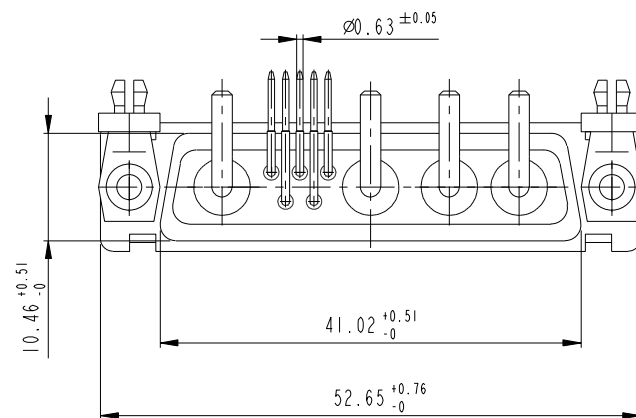
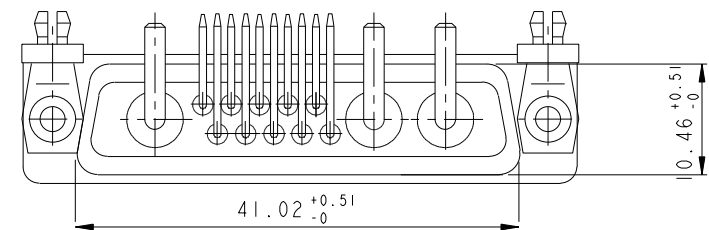
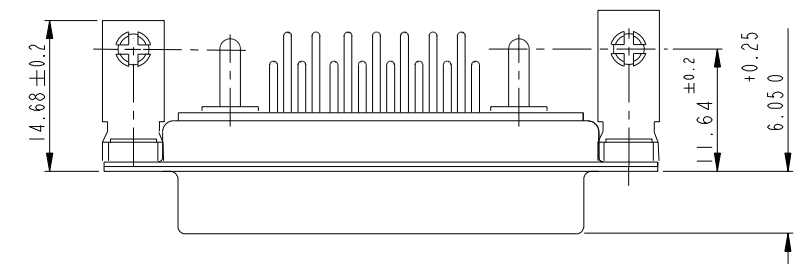
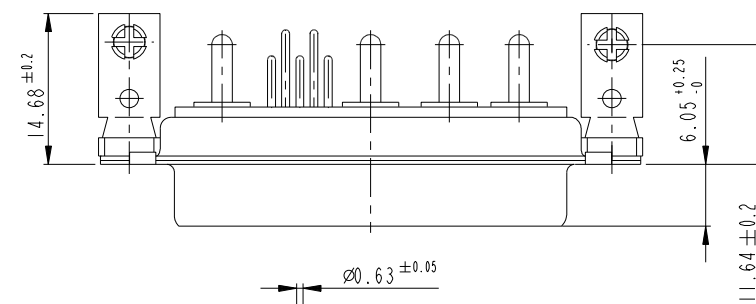
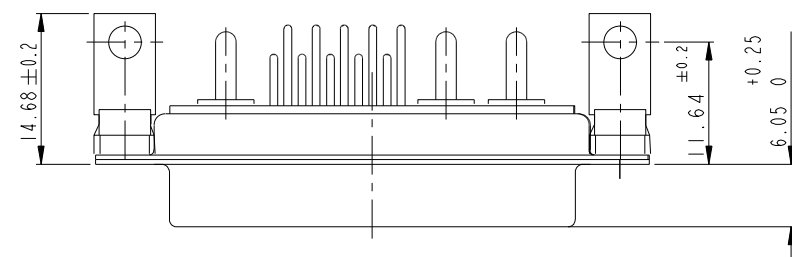
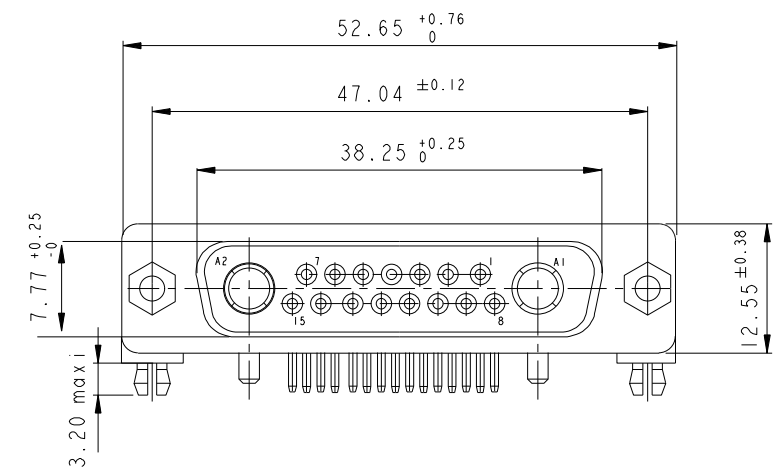
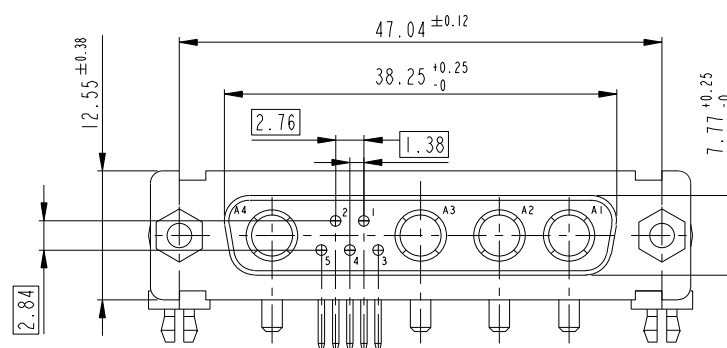
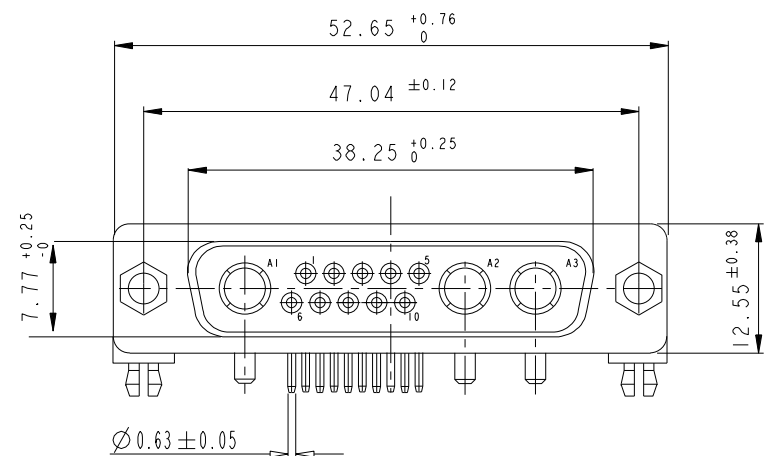
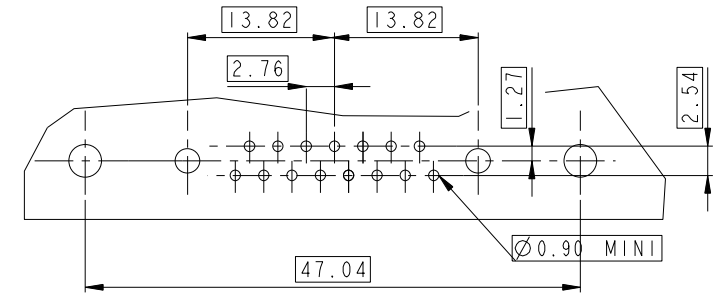
9W4

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



17W2

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



Floating signal contacts

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	LINEAR	0.X	±0.3	size	Scale			
Eng	P LEGARE	2005-10-11			0.XX	±0.1	A2		2:1		
Chr			0°	±2°	0.XXX	±0.05	ECN		F10-0060		
Appr			Product family				- Spec ref				
			title SUB FEMALE DMW EUROPE mixed power right angled solder				dwg no C01-8639-2300			Rev.	
										E	
			catalog no		-		CUSTOMER			sheet 5 of 7	



Copyright FCI.

REV E - 2006-03-28

1

2

3

4

5

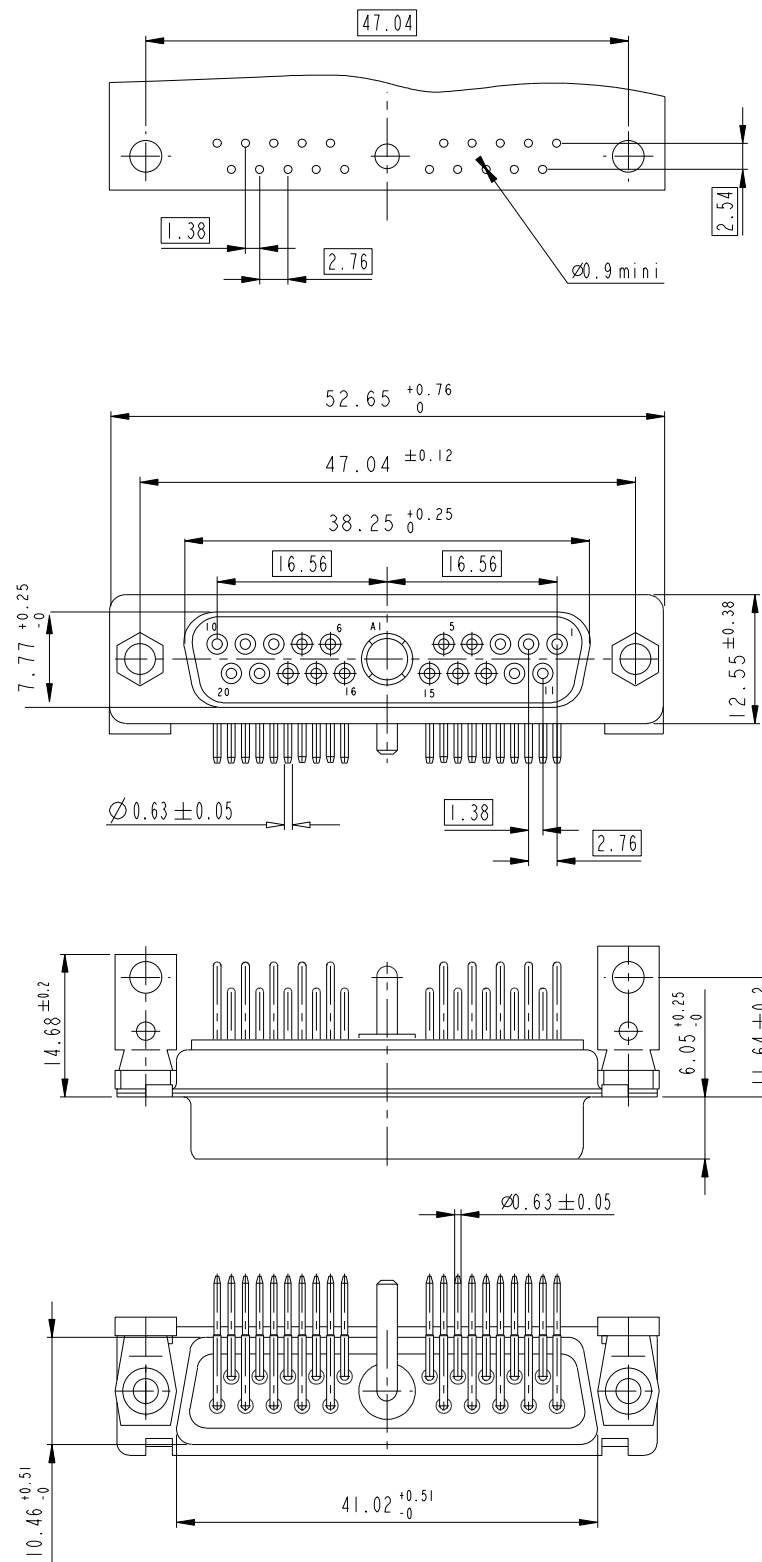
6

7

8

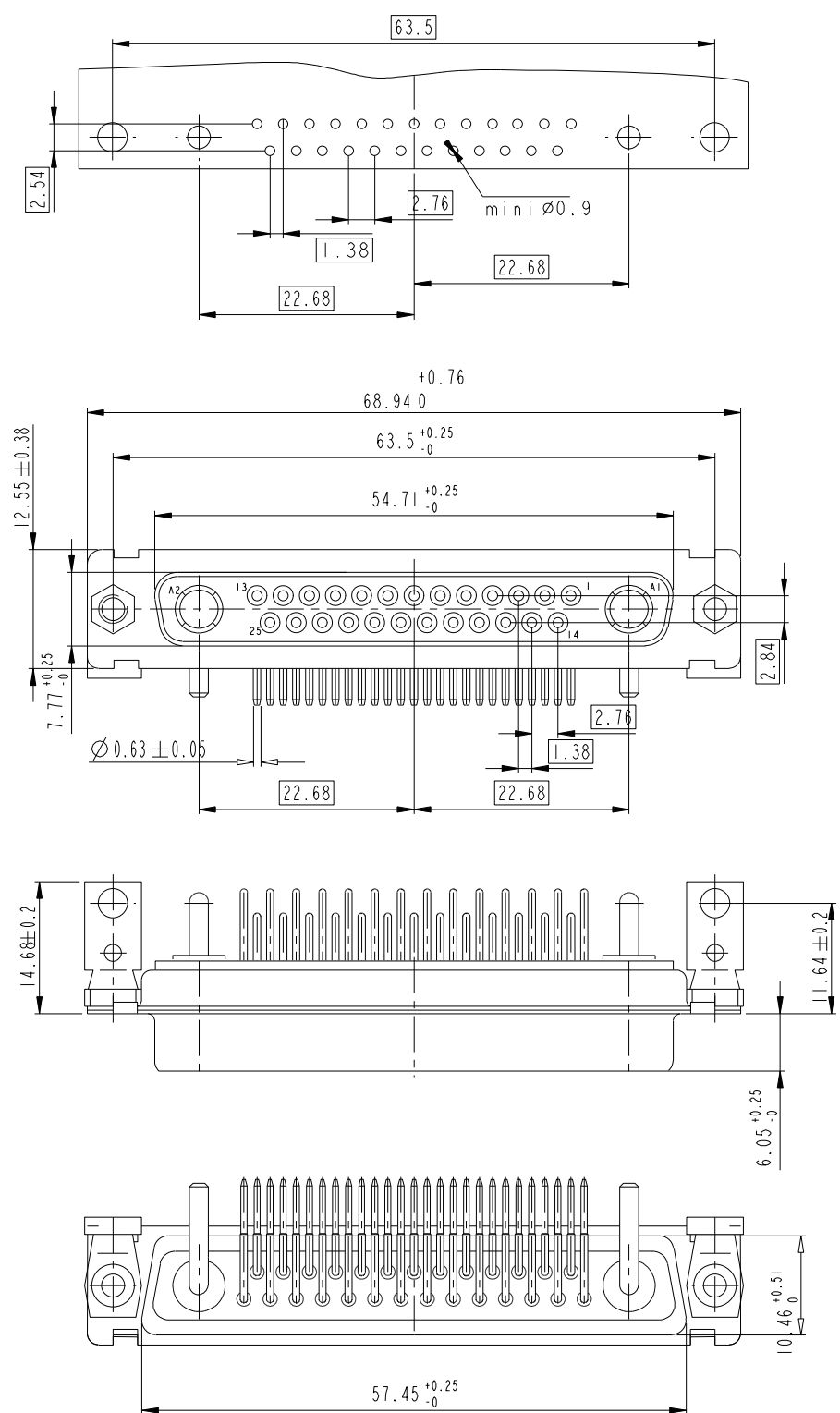
21W1

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



27W2

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



Copyright FCI.

REV E - 2006-03-28

2

3

4

5

6

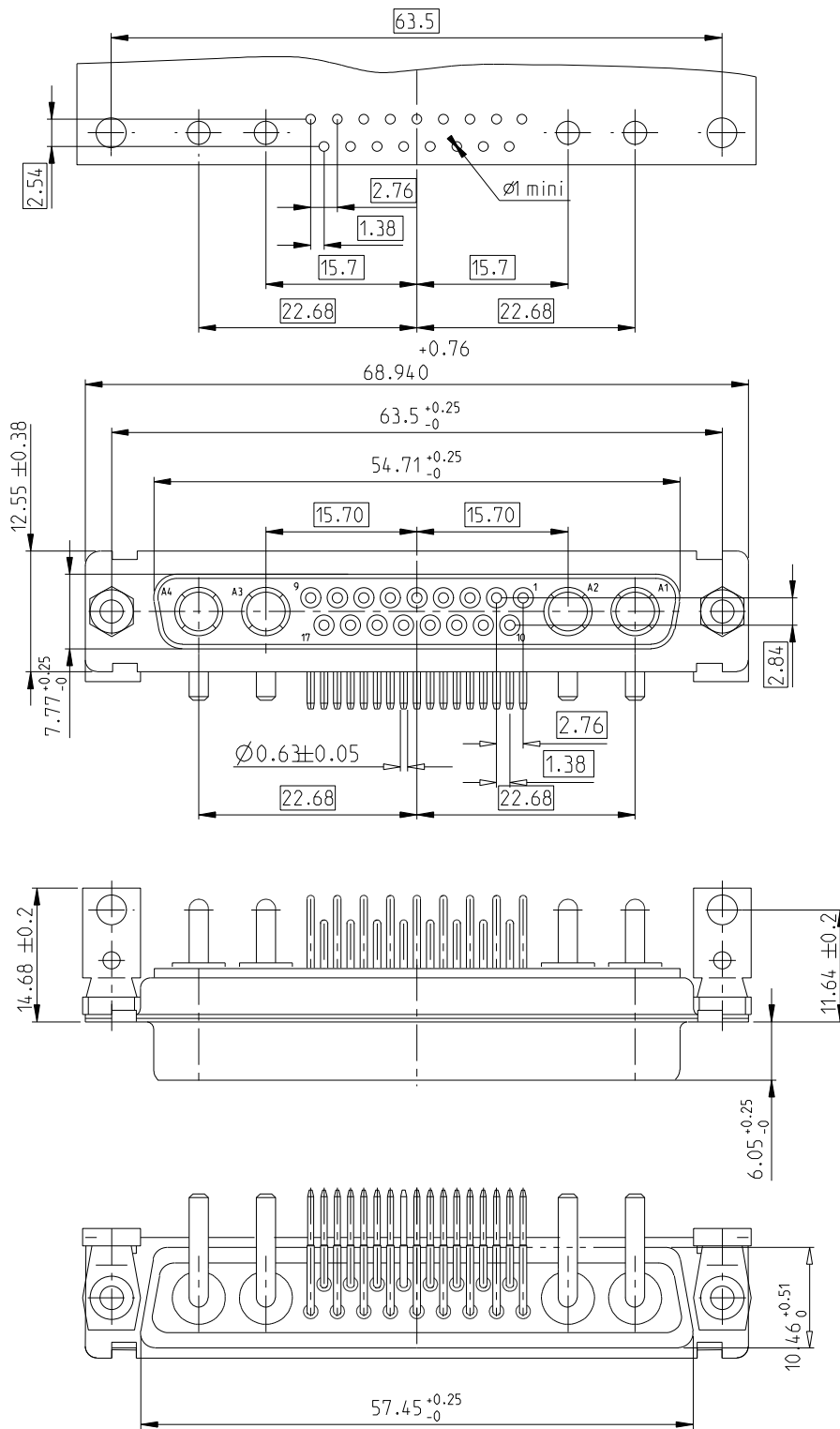
8

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	Scale	2:1
Eng	P LEGARE	2005-10-11	LINEAR	0.XX	±0.1	ECN	F10-0060	Rev.	E
Chr			0° ±2°	0.XXX	±0.05	Product family	-	Spec ref	
Appr									
FCI		SUB FEMALE DMW EUROPE			dwg no		C01-8639-2300		
		mixed power right angled solder			catalog no		CUSTOMER		
							sheet 6 of 7		

21W A4

LAYOUT AND CONNECTOR DIMENSIONS

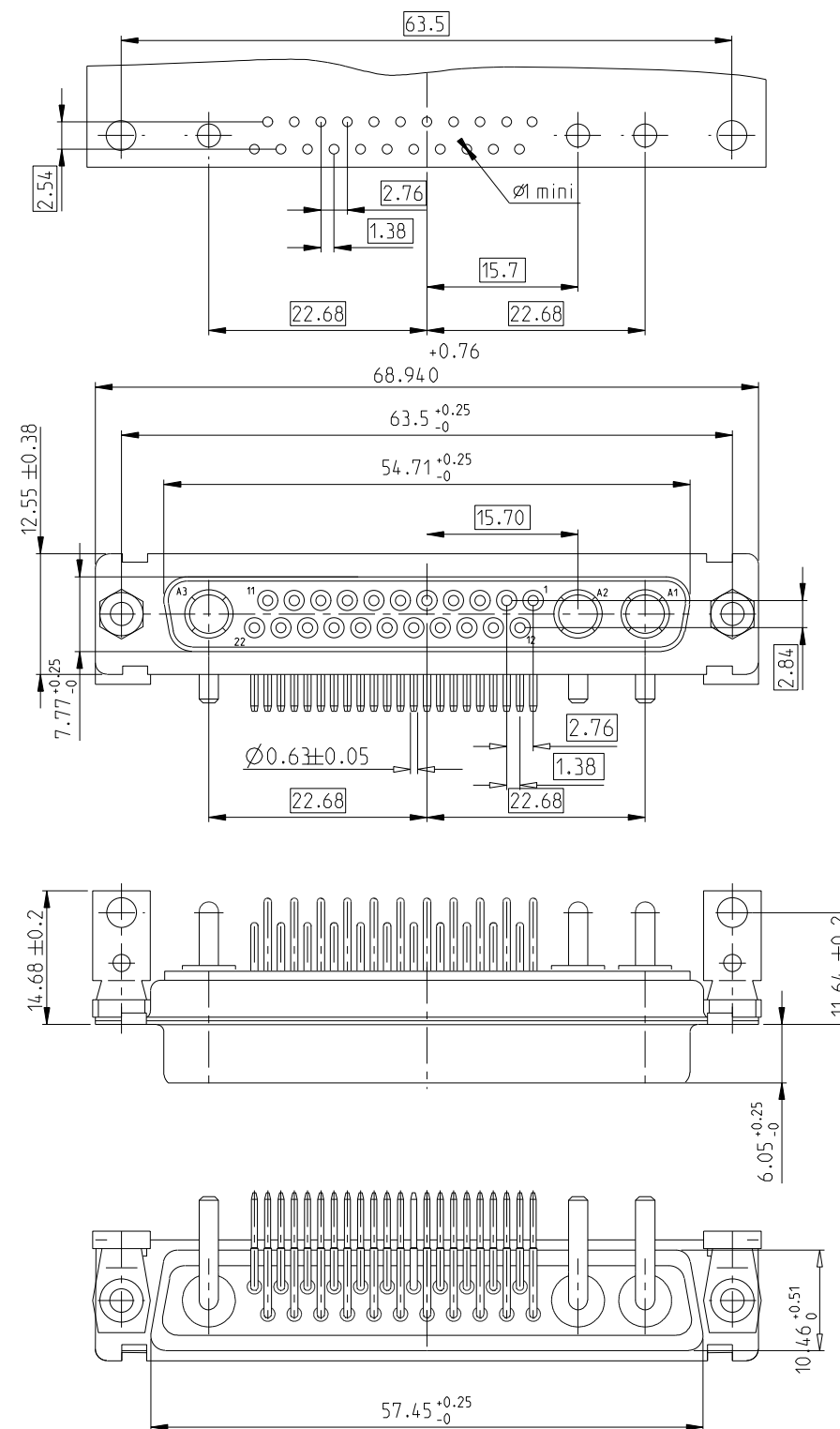
For PCB hole diameters see table 1 sheet 1



25W 3

LAYOUT AND CONNECTOR DIMENSIONS

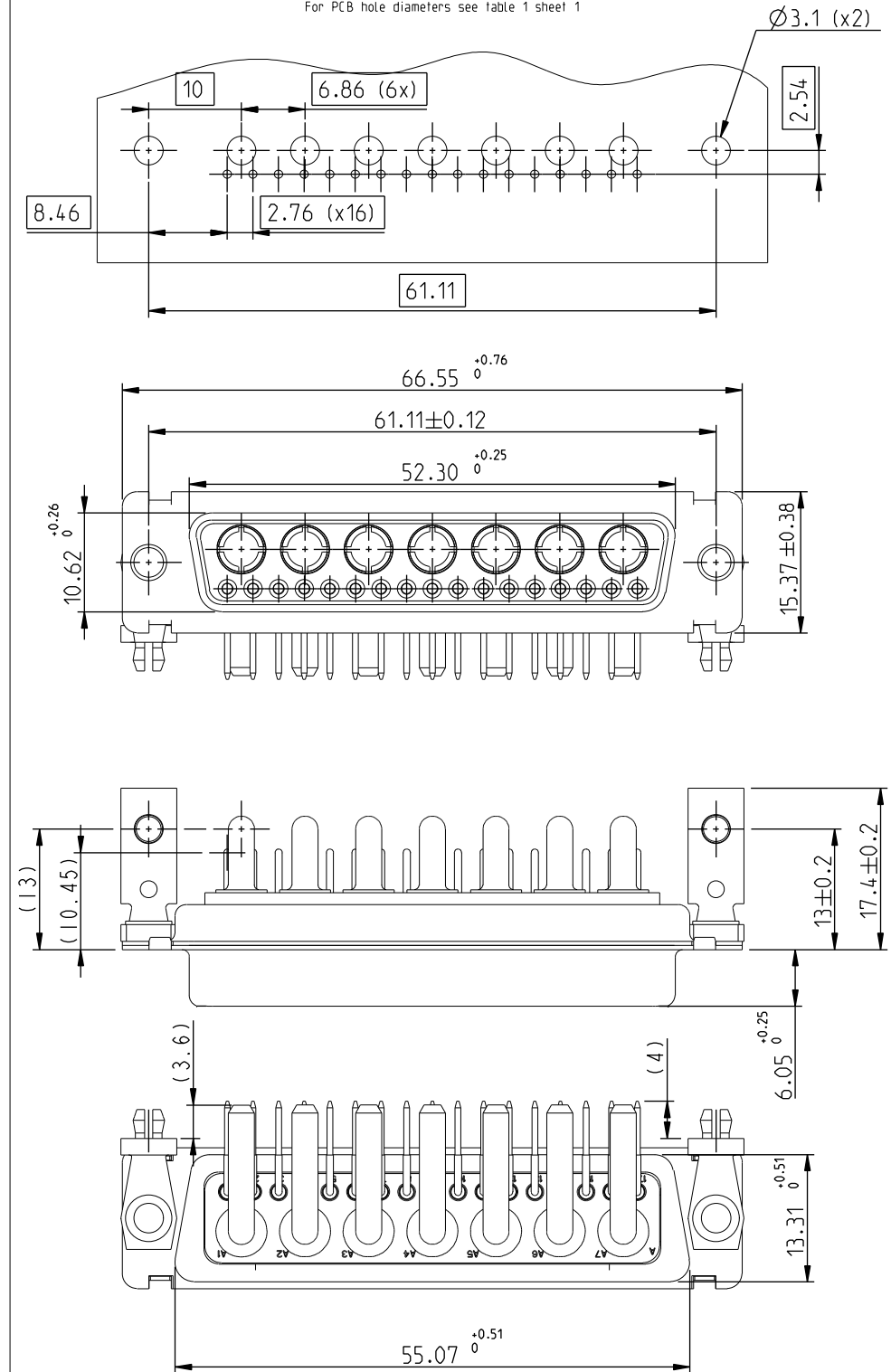
For PCB hole diameters see table 1 sheet 1



24W 7

LAYOUT AND CONNECTOR DIMENSIONS

For PCB hole diameters see table 1 sheet 1



www.fciconnect.com			surface ISO 1302		- ✓ tolerance std ISO 406 ISO 1101		projection 			
			TOLERANCES UNLESS OTHERWISE SPECIFIED							
Dr	M PESSON	2005-10-11	ANGULAR	LINEAR	0.X	±0.3	size	Scale		
Eng	P LEGARE	2005-10-11			0.XX	±0.1	A2	2:1		
Chr					0° ±2°	0.XXX	±0.05	ECN		F10-0060
Appr			Product family				-	Spec ref		
		title SUB FEMALE DMW EUROPE mixed power right angled solder				dwg no C01-8639-2300		Rev. E		
catalog no		-				CUSTOMER		sheet 7 of 7		