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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
-	-	-	-
-	-	-	-

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surface ISO 1302 - ✓

tolerance std ISO 406 ISO 1101

TOLERANCES UNLESS OTHERWISE SPECIFIED

projection

mm

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

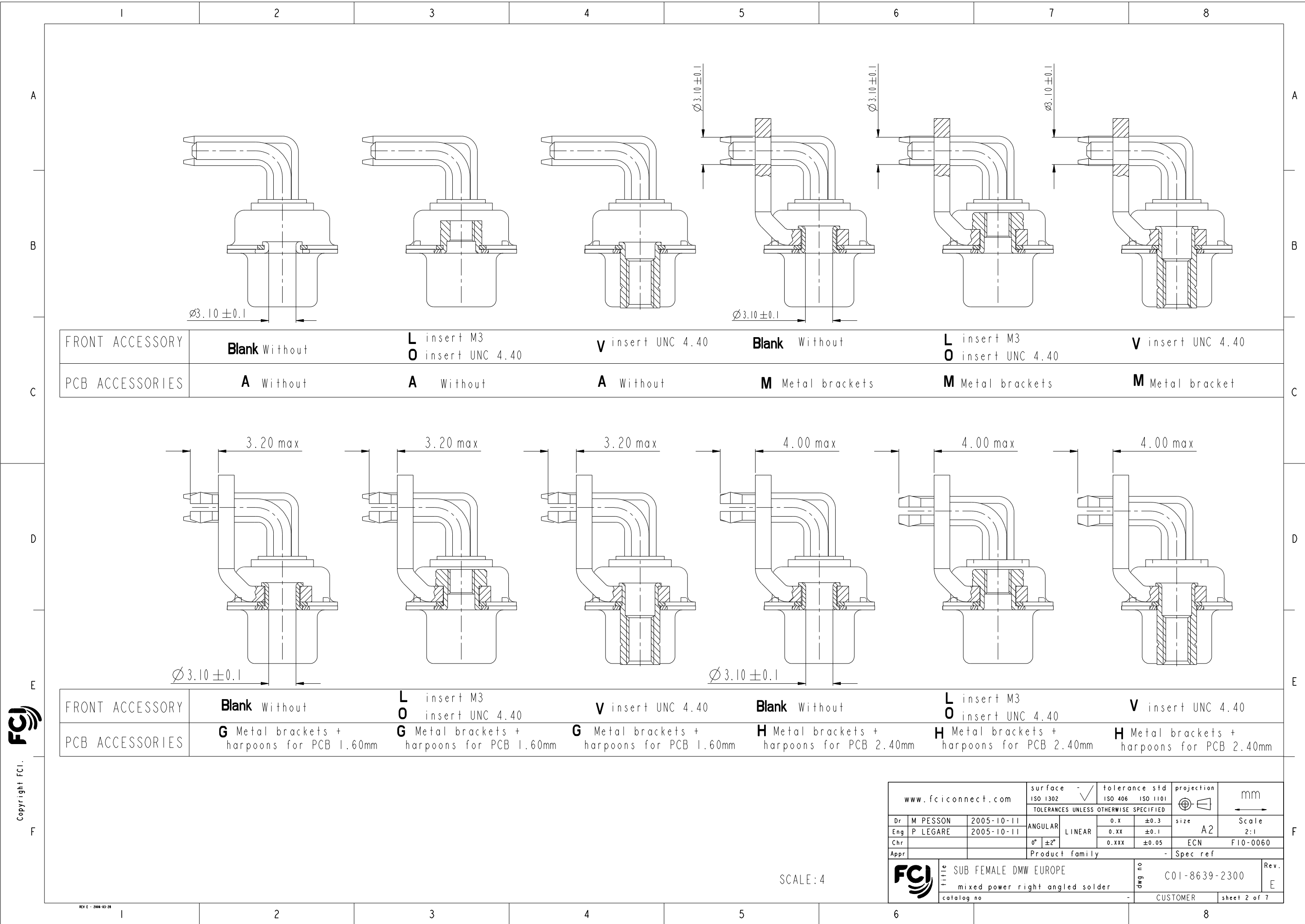
sheet 1 of 7

13W3 FOR EXAMPLE

Ø A

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



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F	<table><tr><th>PART NUMBER</th><th>AMPS</th><th>MATINGS/ UNMATINGS</th><th>FRONT ACCESSORY</th><th>PCB ACCESSORIES</th></tr><tr><td>D*xWxS500A40LF</td><td>40</td><td>200</td><td>without</td><td>without</td></tr><tr><td>D*LxWxS500A40LF</td><td>40</td><td>200</td><td>insert M3</td><td>without</td></tr><tr><td>D*OxWxS500A40LF</td><td>40</td><td>200</td><td>insert UNC 4.40</td><td>without</td></tr><tr><td>D*VxWxS500A40LF</td><td>40</td><td>200</td><td>female screw UNC 4.40</td><td>without</td></tr><tr><td>D*xWxS500H40LF</td><td>40</td><td>200</td><td>without</td><td>metal bracket+harpoon PCB 2.40mm</td></tr><tr><td>D*LxWxS500H40LF</td><td>40</td><td>200</td><td>insert M3</td><td>metal bracket+harpoon PCB 2.40mm</td></tr><tr><td>D*OxWxS500H40LF</td><td>40</td><td>200</td><td>insert UNC 4.40</td><td>metal bracket+harpoon PCB 2.40mm</td></tr><tr><td>D*VxWxS500H40LF</td><td>40</td><td>200</td><td>female screw UNC 4.40</td><td>metal bracket+harpoon PCB 2.40mm</td></tr><tr><td>D*xWxS500G40LF</td><td>40</td><td>200</td><td>without</td><td>metal bracket+harpoon PCB 1.60mm</td></tr></table>					PART NUMBER	AMPS	MATINGS/ UNMATINGS	FRONT ACCESSORY	PCB ACCESSORIES	D*xWxS500A40LF	40	200	without	without	D*LxWxS500A40LF	40	200	insert M3	without	D*OxWxS500A40LF	40	200	insert UNC 4.40	without	D*VxWxS500A40LF	40	200	female screw UNC 4.40	without	D*xWxS500H40LF	40	200	without	metal bracket+harpoon PCB 2.40mm	D*LxWxS500H40LF	40	200	insert M3	metal bracket+harpoon PCB 2.40mm	D*OxWxS500H40LF	40	200	insert UNC 4.40	metal bracket+harpoon PCB 2.40mm	D*VxWxS500H40LF	40	200	female screw UNC 4.40	metal bracket+harpoon PCB 2.40mm	D*xWxS500G40LF	40	200	without	metal bracket+harpoon PCB 1.60mm																										
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	D*xWxS500H40LF	40	200	without	metal bracket+harpoon PCB 2.40mm																																																																												
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Copyright FCI. FCI www.fciconnect.com <table><tr><td colspan="3">Dr M PESSON 2005-10-11</td><td colspan="2">surface ISO 1302</td><td colspan="2">tolerance std ISO 406 ISO 1101</td><td colspan="2">projection</td><td colspan="2">mm</td></tr><tr><td colspan="3">Eng P LEGARE 2005-10-11</td><td colspan="2">TOLERANCES UNLESS OTHERWISE SPECIFIED</td><td colspan="2">0.X ±0.3</td><td colspan="2">size A2</td><td colspan="2">Scale 2:1</td></tr><tr><td colspan="3">Chr</td><td colspan="2">ANGULAR 0° ±2°</td><td colspan="2">0.XX ±0.1</td><td colspan="2">ECN</td><td colspan="2">F10-0060</td></tr><tr><td colspan="3">Appr</td><td colspan="2">Product family</td><td colspan="2">- Spec ref</td><td colspan="2">Rev. E</td><td colspan="2"></td></tr><tr><td colspan="3">FCI</td><td colspan="4">SUB FEMALE DMW EUROPE mixed power right angled solder</td><td colspan="2">avg no C01-8639-2300</td><td colspan="2"></td></tr><tr><td colspan="3"></td><td colspan="4">catalog no</td><td colspan="2">CUSTOMER</td><td colspan="2">sheet 3 of 7</td></tr></table> REV E - 2006-03-28 I 2 3 4 5 6 7 8																Dr M PESSON 2005-10-11			surface ISO 1302		tolerance std ISO 406 ISO 1101		projection		mm		Eng P LEGARE 2005-10-11			TOLERANCES UNLESS OTHERWISE SPECIFIED		0.X ±0.3		size A2		Scale 2:1		Chr			ANGULAR 0° ±2°		0.XX ±0.1		ECN		F10-0060		Appr			Product family		- Spec ref		Rev. E				FCI			SUB FEMALE DMW EUROPE mixed power right angled solder				avg no C01-8639-2300							catalog no				CUSTOMER		sheet 3 of 7	
Dr M PESSON 2005-10-11			surface ISO 1302		tolerance std ISO 406 ISO 1101		projection		mm																																																																								
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			catalog no				CUSTOMER		sheet 3 of 7																																																																								

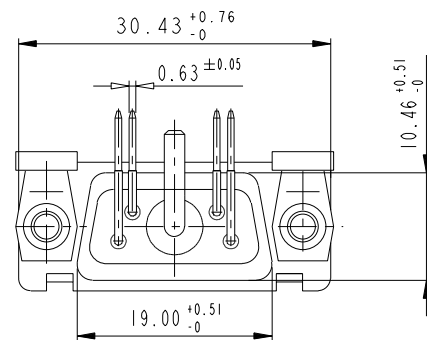
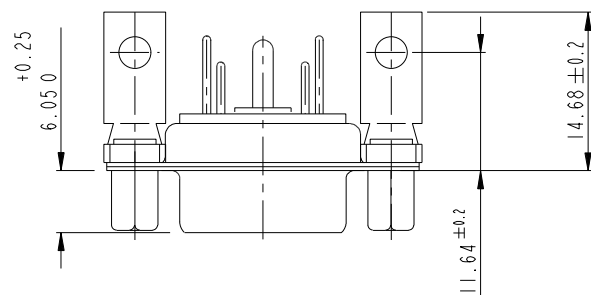
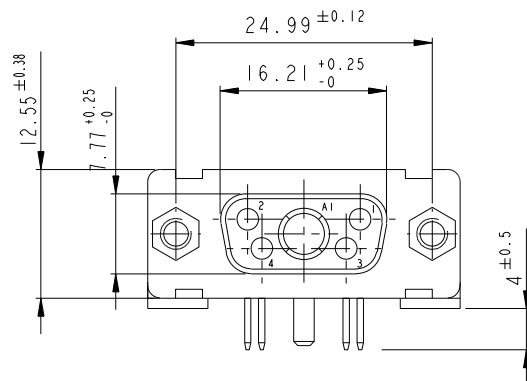
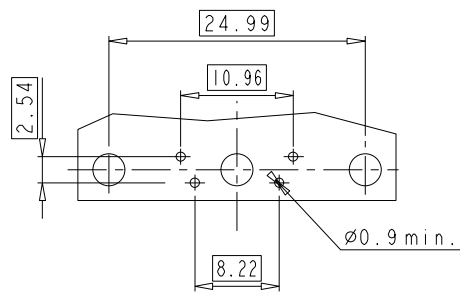
FCI
Copyright FCI.

shell size *
E
A
A
B
B
B
B
C
C
C
D

LAYOUTS
xWx
5W1
11W1
7W2
21W1
17W2
13W3
9W4
25W3
21WA4
27W2
24W7

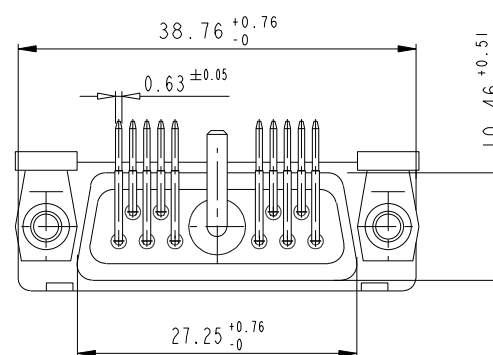
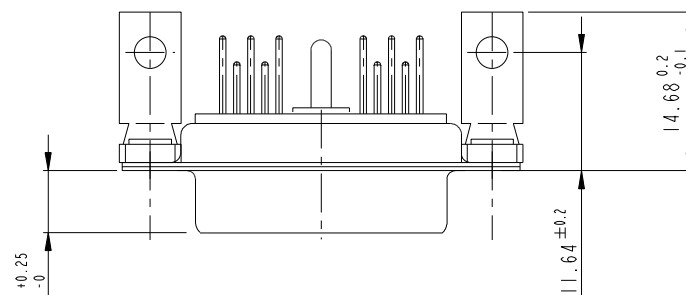
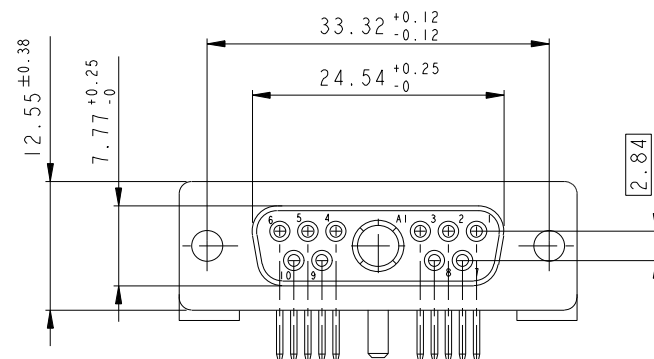
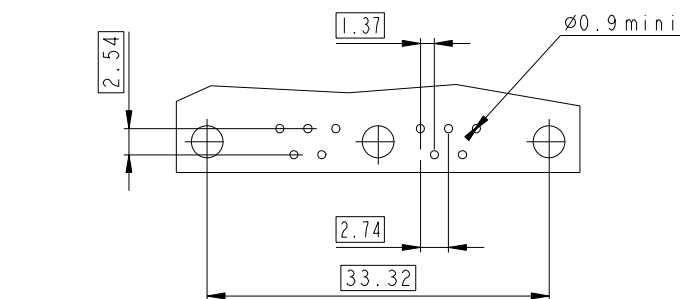
www.fciconnect.com			surface - 		tolerance std		projection				
			ISO 1302		ISO 406 ISO 1101						
TOLERANCES UNLESS OTHERWISE SPECIFIED											
Dr	M PESSON	2005-10-11	ANGULAR	LINEAR	0.X ±0.3		size A2	Scale 2:1			
Eng	P LEGARE	2005-10-11			0.XX ±0.1						
Chr			0° ±2°		0.XXX ±0.05		ECN		F10-0060		
Appr			Product family				-		Spec ref		
		title SUB FEMALE DMW EUROPE				dwg no C01-8639-2300		Rev. E			
		mixed power right angled solder									
		catalog no				-		CUSTOMER		sheet 3 of 7	

5W1

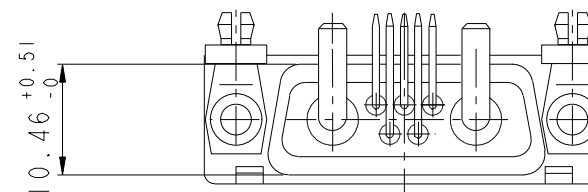
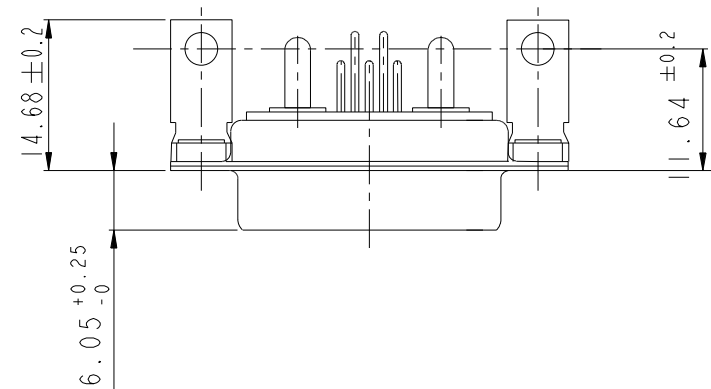
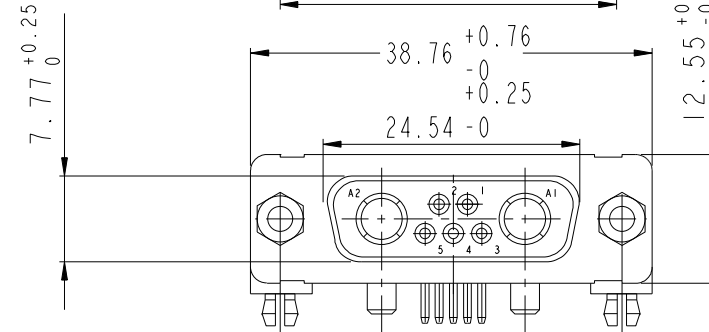
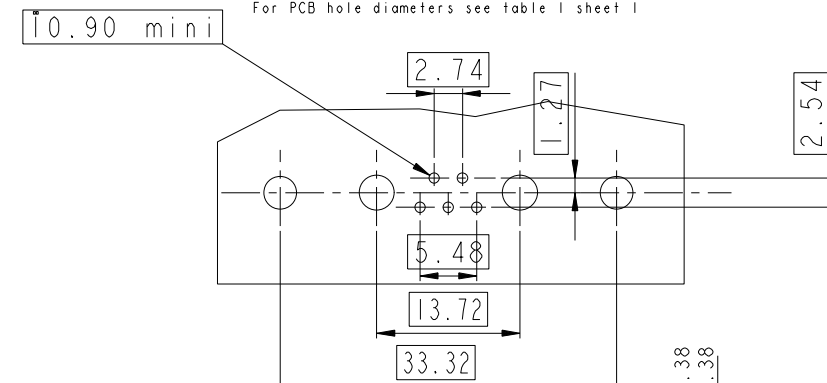
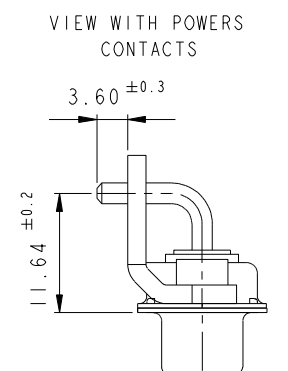
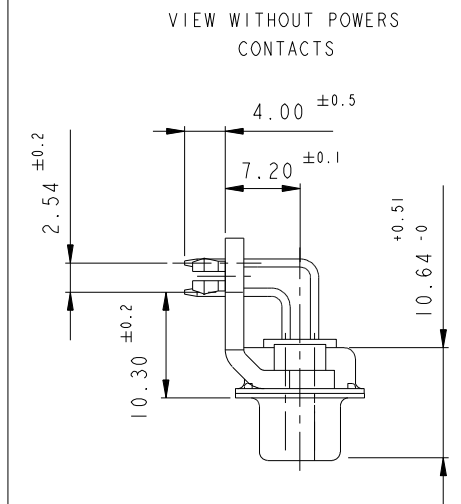
LAYOUT AND CONNECTOR DIMENSIONS
For PCB hole diameters see table I sheet I

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)

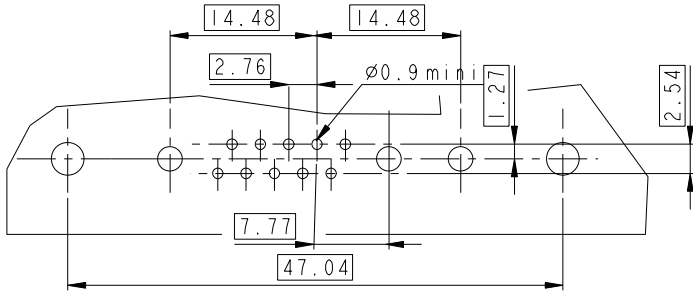
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www.fciconnect.com			surface  ISO 1302		tolerance std ISO 406 ISO 1101		projection 		mm 		
TOLERANCES UNLESS OTHERWISE SPECIFIED											
Dr	M PESSON	2005-10-11	ANGULAR	LINEAR	0.X	±0.3	size	Scale			
Eng	P LEGARE	2005-10-11			0.XX	±0.1	A2	2:1			
Chr					0° ±2°	±0.05	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 4 of 7

I 2 3 4 5 6 7 8

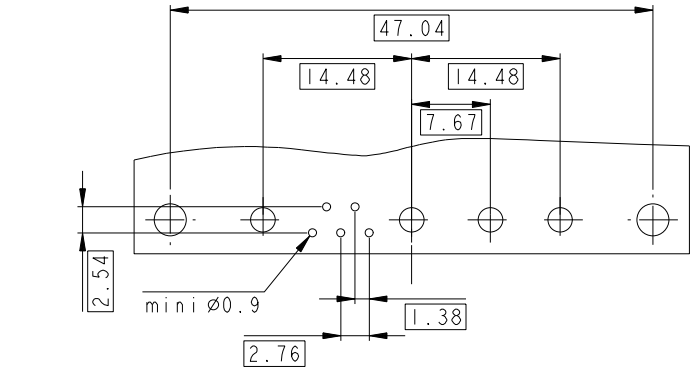
13W3

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



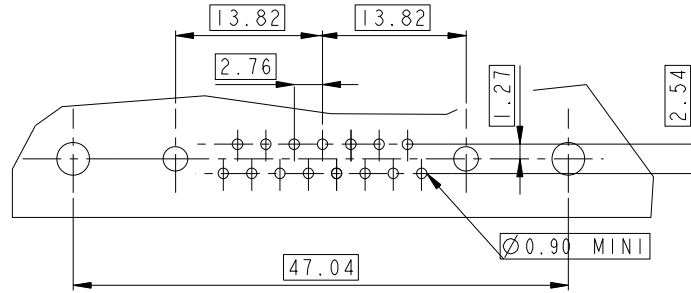
9W4

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



A

B

C

D

E

F

A

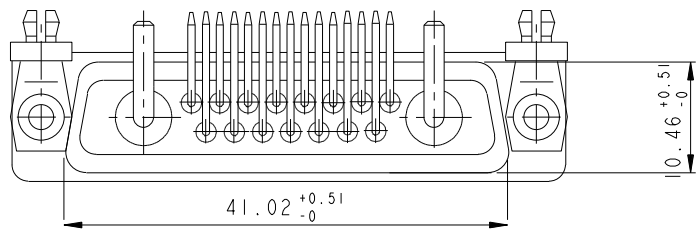
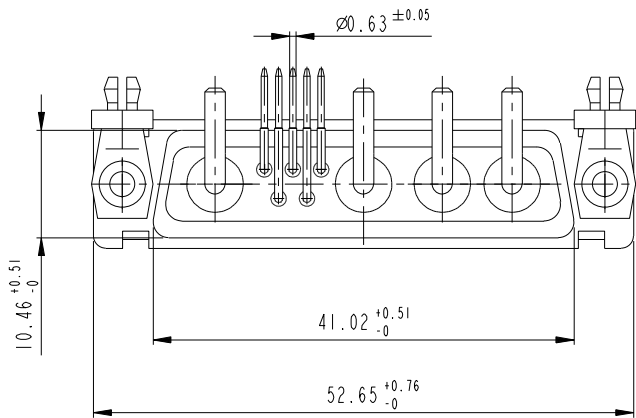
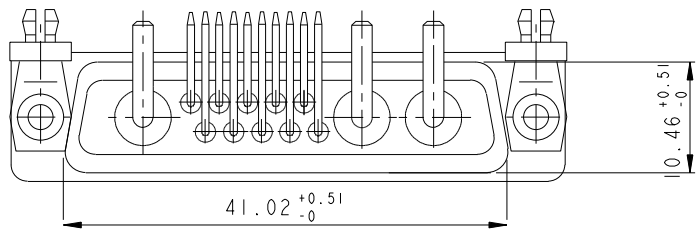
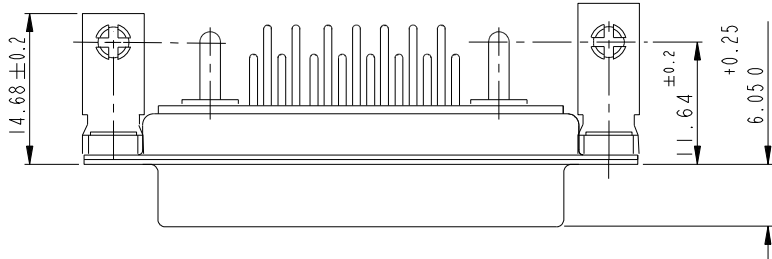
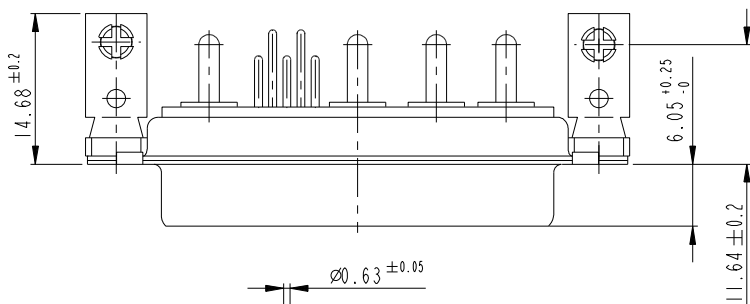
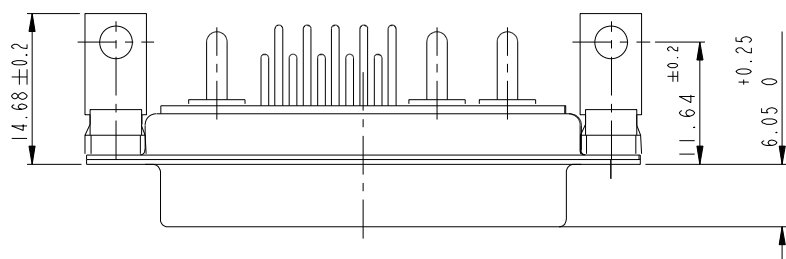
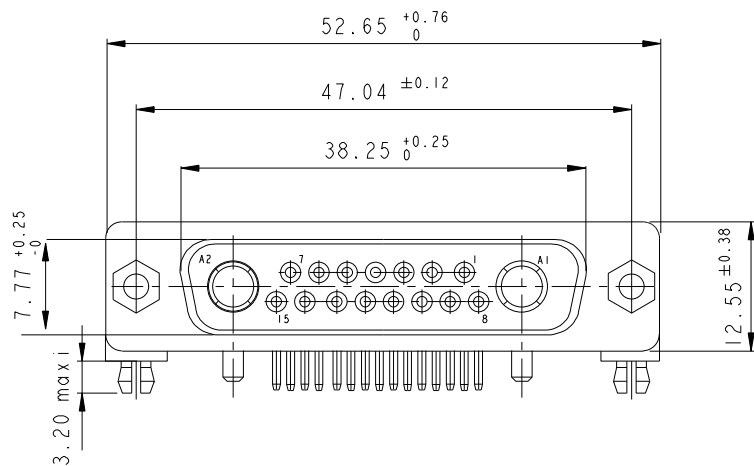
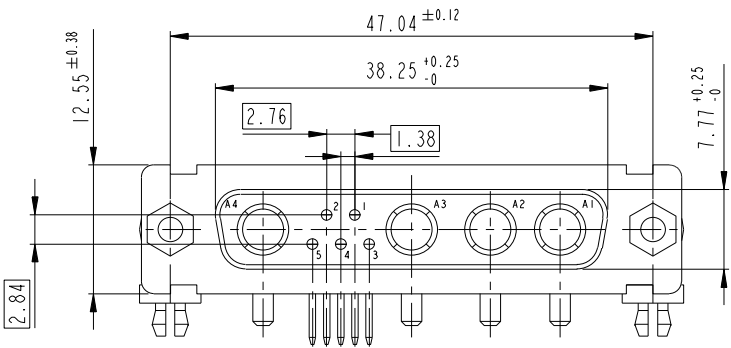
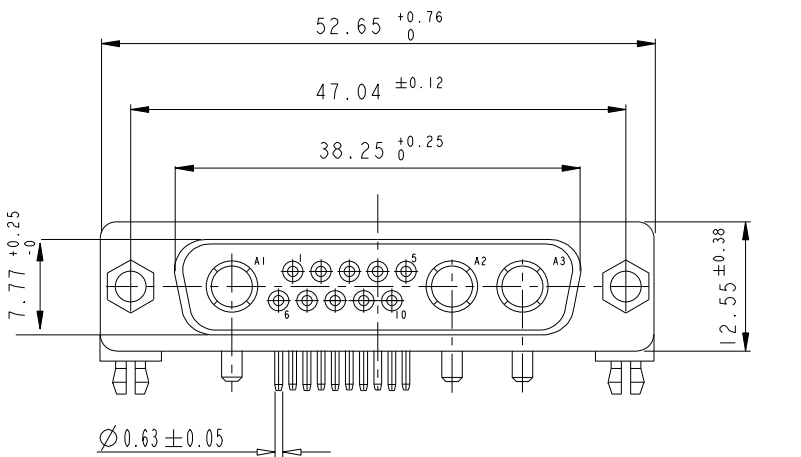
B

C

D

E

F



Floating signal contacts

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	LINEAR	0.X ±0.3		size A2	Scale 2:1		
Eng	P LEGARE	2005-10-11			0.XX ±0.1					
Chr					0.XXX ±0.05					
Appr			0° ±2°		Product family		-	ECN F10-0060		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	



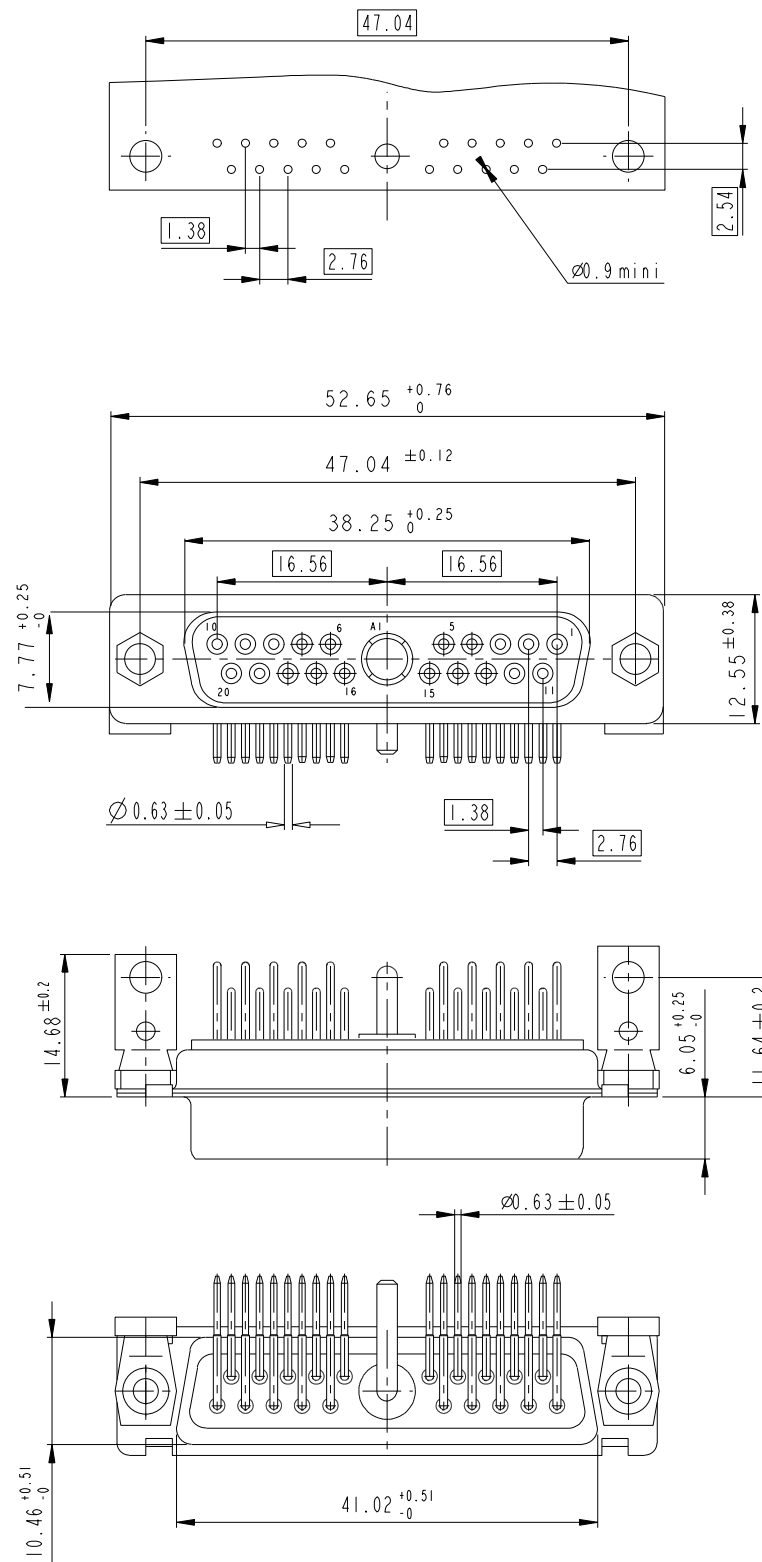
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I 2 3 4 5 6 7 8

21W1

LAYOUT AND CONNECTOR DIMENSIONS

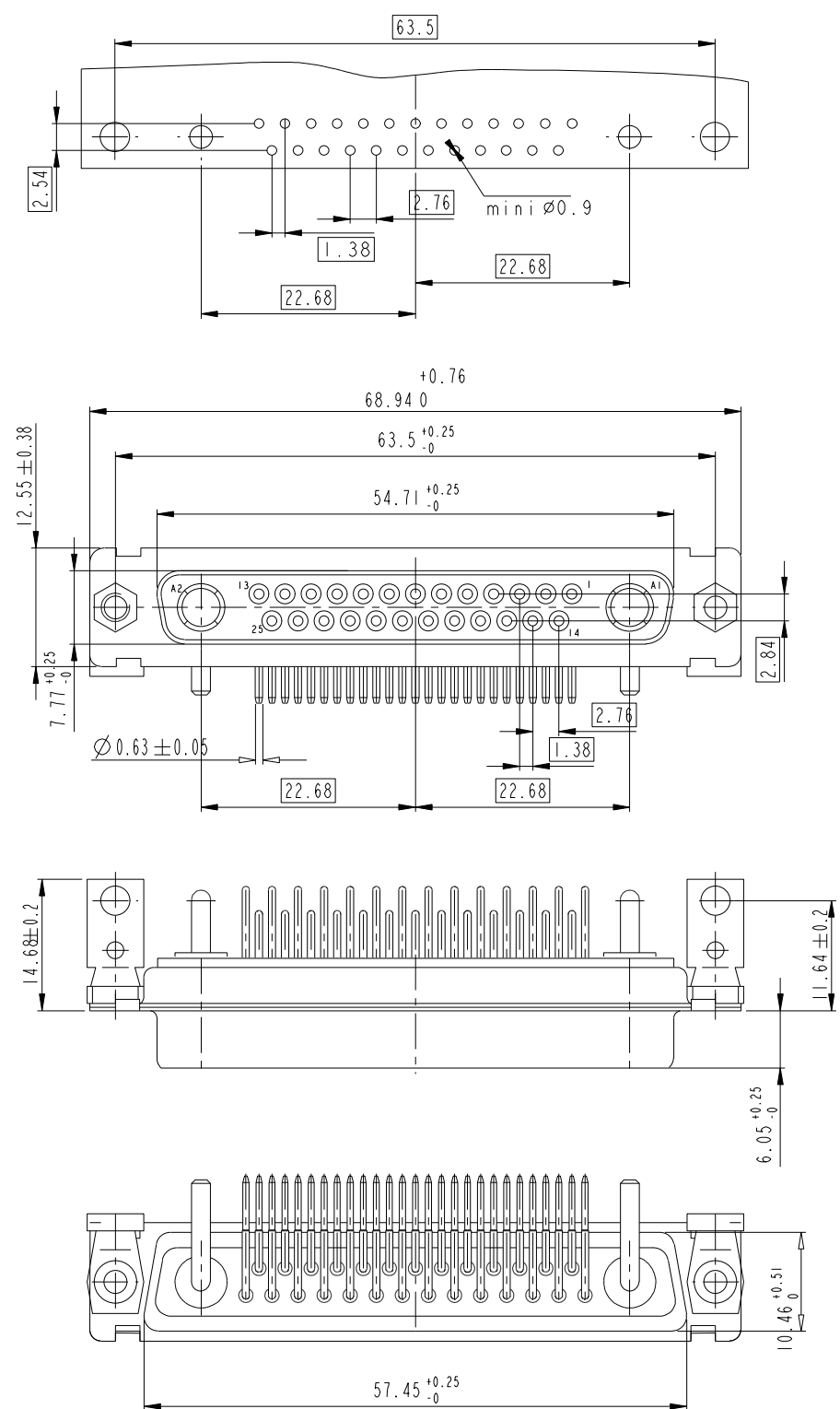
For PCB hole diameters see table I sheet I



27W2

LAYOUT AND CONNECTOR DIMENSIONS

For PCB hole diameters see table I sheet I

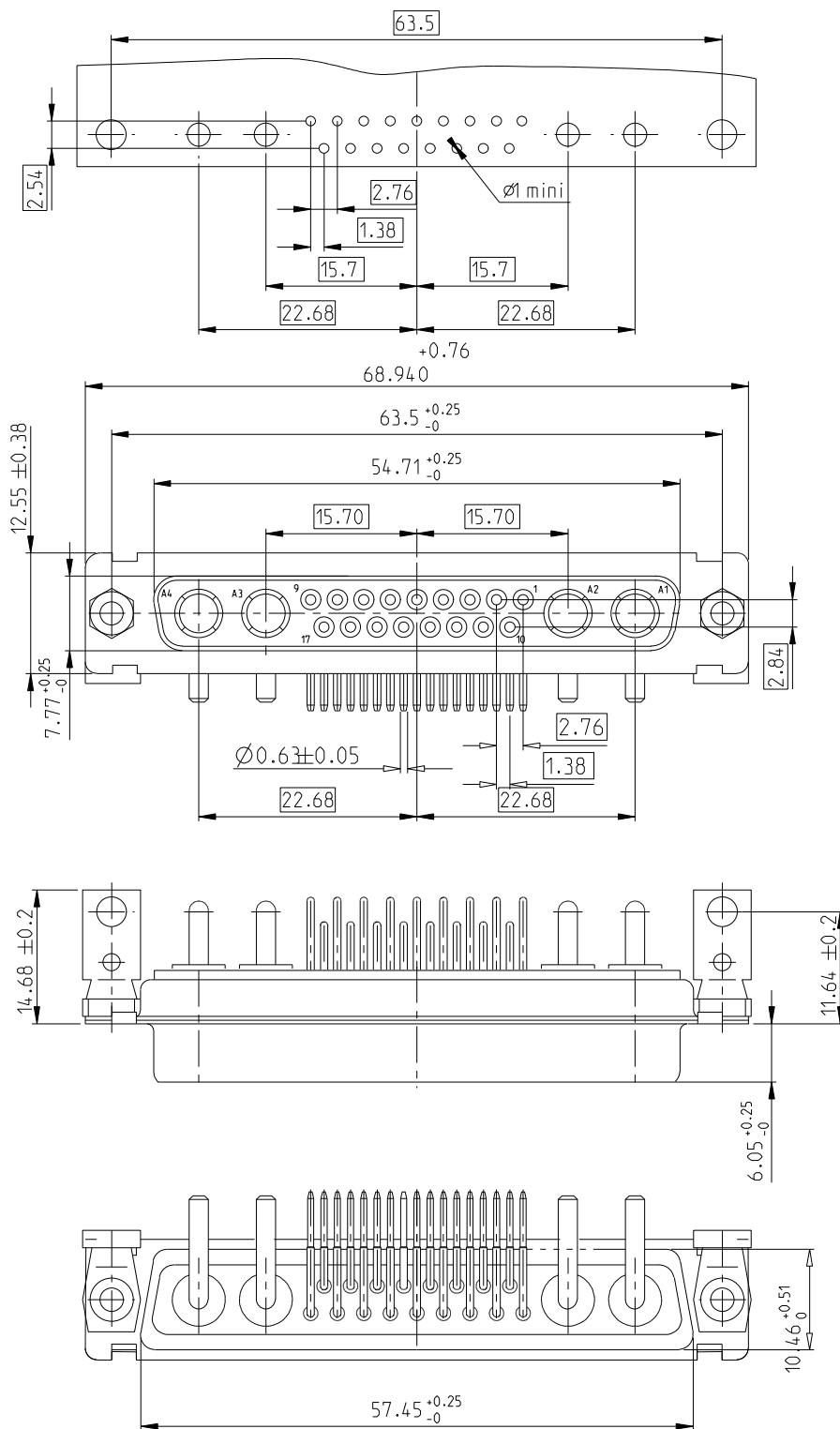


www.fciconnect.com		surface	-	tolerance std	ISO 1302	ISO 406	ISO 1101	projection	mm
		TOLERANCES UNLESS OTHERWISE SPECIFIED							
Dr	M PESSON	2005-10-11	ANGULAR	0.X	±0.3	size	A2	Scale	2:1
Eng	P LEGARE	2005-10-11	LINEAR	0.XX	±0.1	ECN	F10-0060	Rev.	E
Chr			0° ±2°	0.XXX	±0.05	Product family	-	Spec ref	
Appr									
FCI		SUB FEMALE DMW EUROPE			mixed power right angled solder		C01-8639-2300		
		catalog no			CUSTOMER		sheet 6 of 7		

21W A4

LAYOUT AND CONNECTOR DIMENSIONS

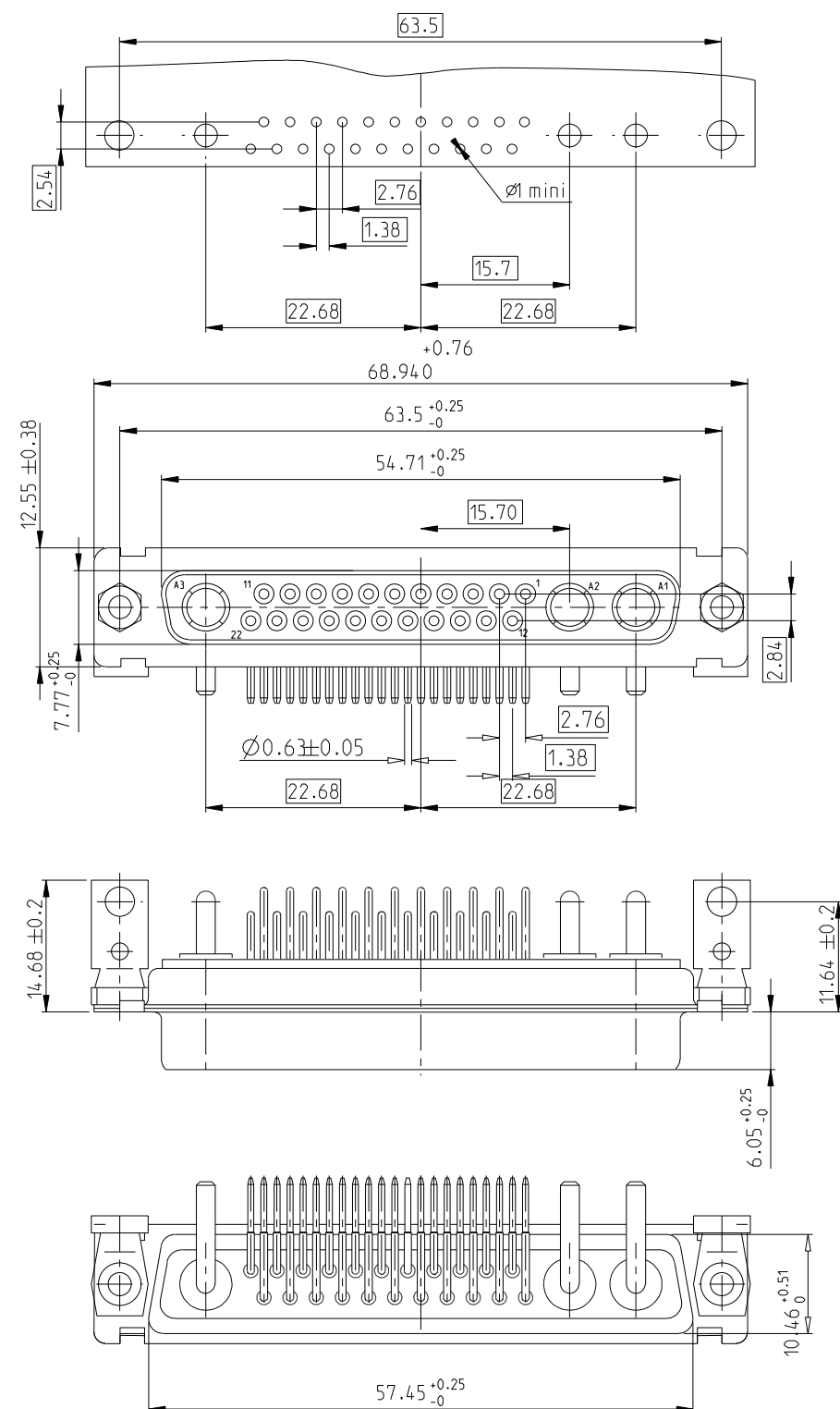
For PCB hole diameters see table 1 sheet 1



25W 3

LAYOUT AND CONNECTOR DIMENSIONS

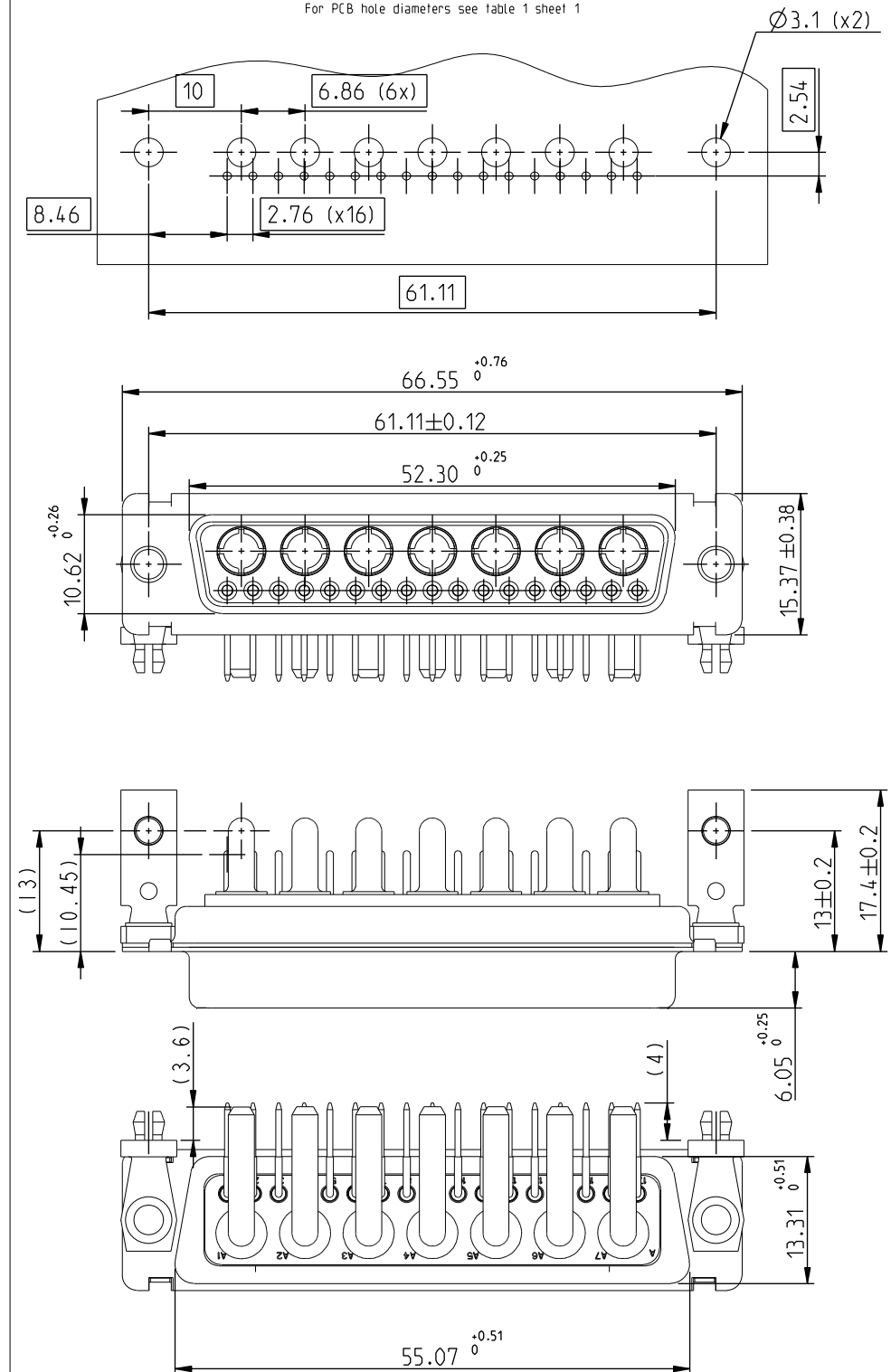
For PCB hole diameters see table 1 sheet 1



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 		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				dwg no	C01-8639-2300		Rev. E	
											mixed power right angled solder
			catalog no		-	CUSTOMER		sheet 7 of 7			