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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

CUSTOMER

sheet 1 of 7

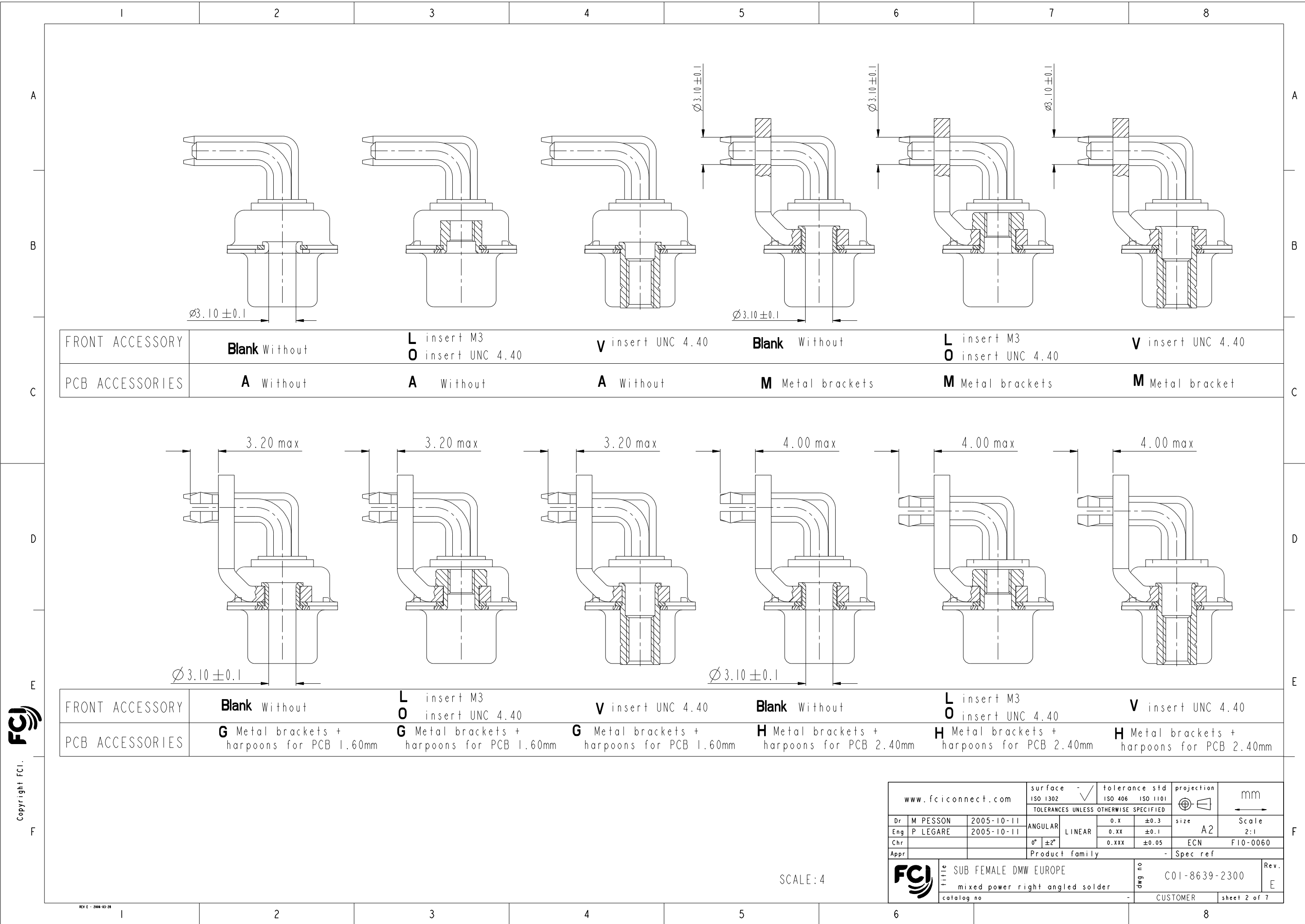
13W3 FOR EXAMPLE

Ø A

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REV E - 2006-03-28

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



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°	Product family	-	Spec ref	F10-0060
FCI			SUB FEMALE DMW EUROPE			dwg no	Rev.
			mixed power right angled solder			C01-8639-2300	E
			catalog no	-	CUSTOMER	sheet 2 of 7	

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FCI

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surface - ✓
ISO 1302

tolerance std
ISO 406 ISO 1101

projection
⊕

mm

Dr M PESSON 2005-10-11

Eng P LEGARE 2005-10-11

Chr

Appr

TOLERANCES UNLESS OTHERWISE SPECIFIED

ANGULAR LINEAR

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

SUB FEMALE DMW EUROPE

mixed power right angled solder

catalog no -

CUSTOMER

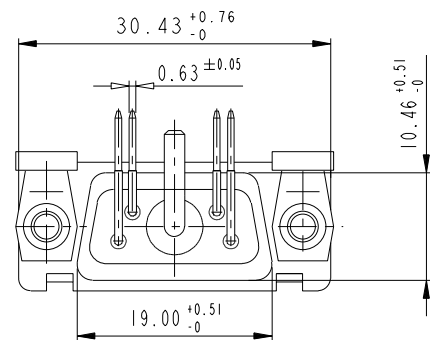
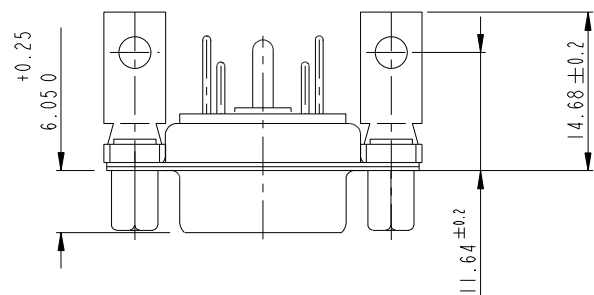
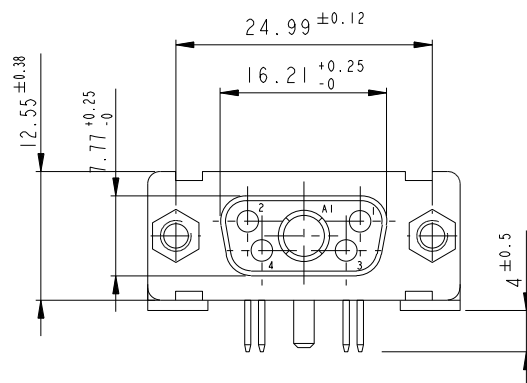
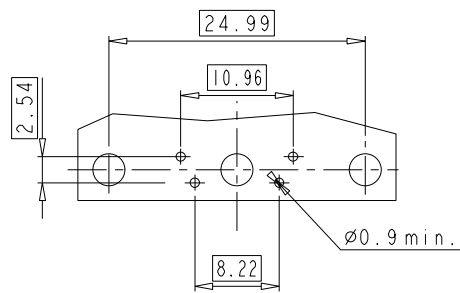
sheet 3 of 7

Rev. E

5W1

LAYOUT AND CONNECTOR DIMENSIONS

For PCB hole diameters see table I sheet I

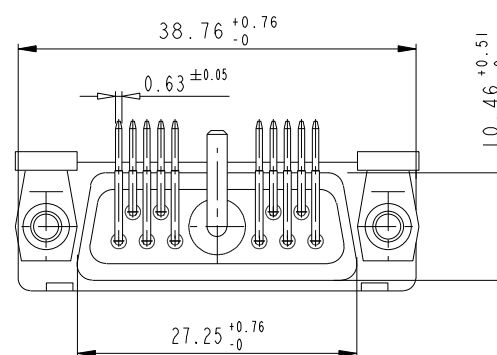
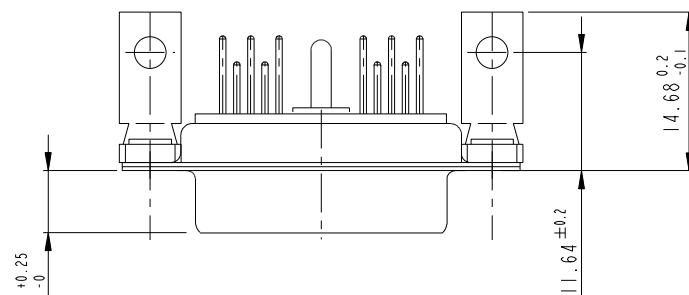
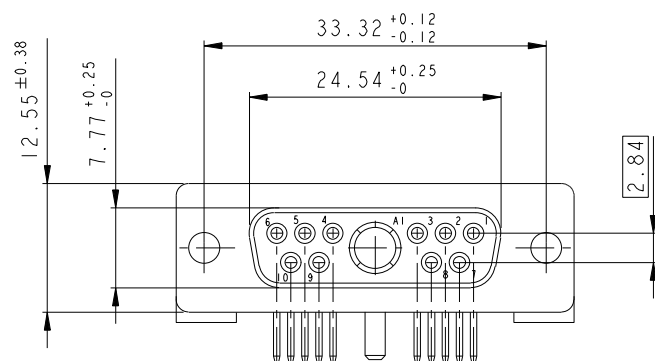
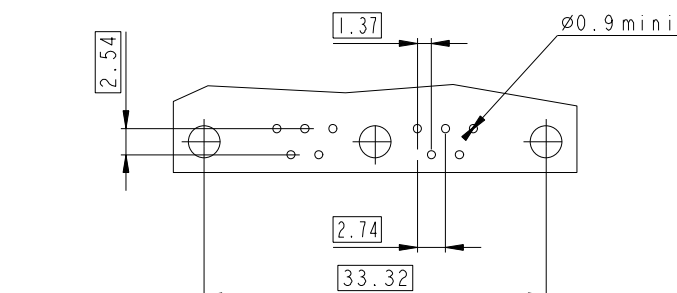


Floating signal contacts

11W1

LAYOUT AND CONNECTOR DIMENSIONS

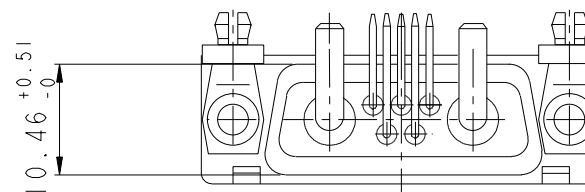
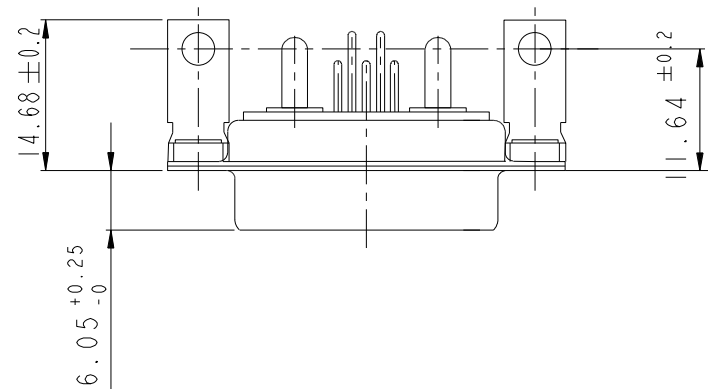
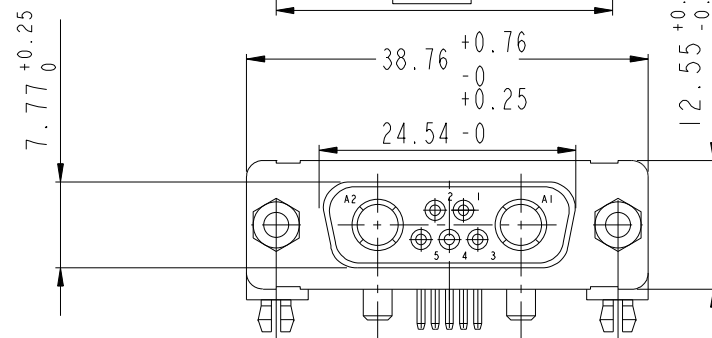
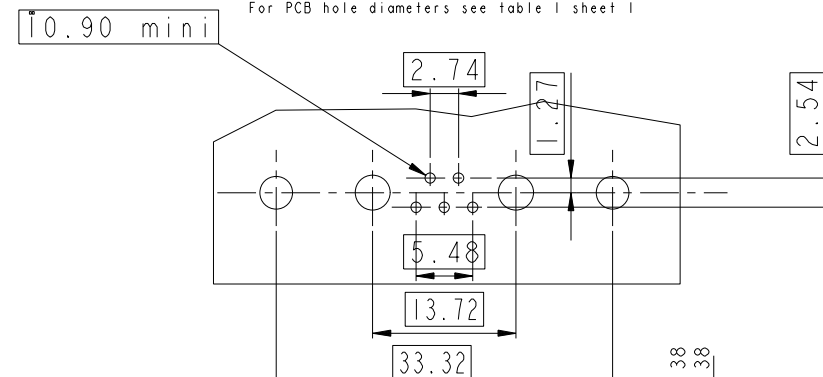
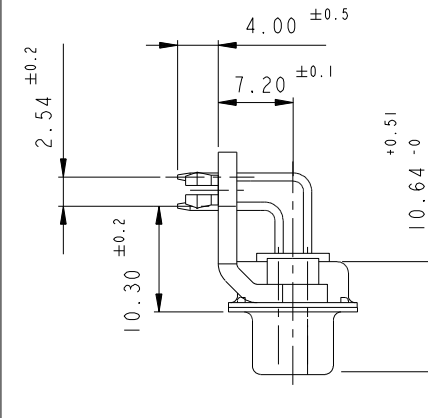
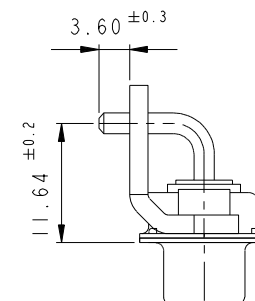
For PCB hole diameters see table I sheet I



7W2

LAYOUT AND CONNECTOR DIMENSIONS

For PCB hole diameters see table I sheet I

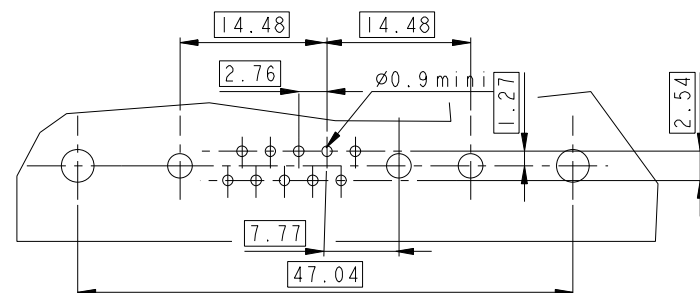
SIDE VIEW FOR ALL LAYOUTS
(except size D)VIEW WITHOUT POWERS
CONTACTSVIEW WITH POWERS
CONTACTS

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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		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 F10-0060
Appr			Product family		Spec ref		
FCI			SUB FEMALE DMW EUROPE			dwg no C01-8639-2300	
			mixed power right angled solder			Rev. E	
			catalog no			CUSTOMER sheet 4 of 7	

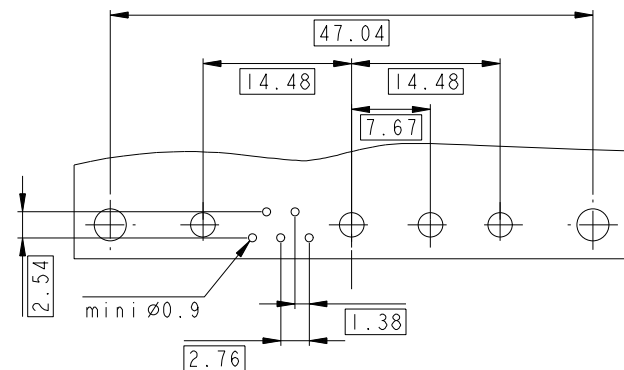
13W3

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



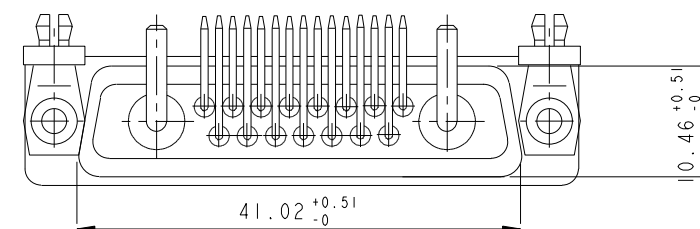
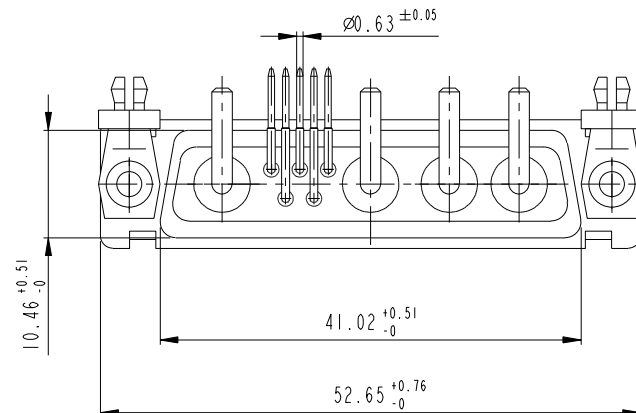
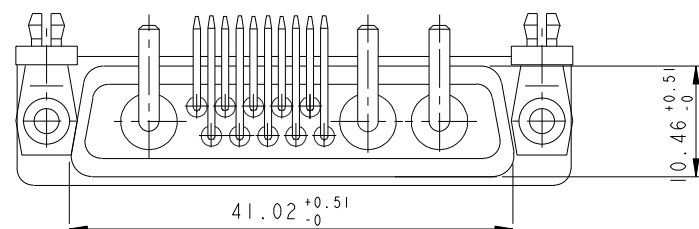
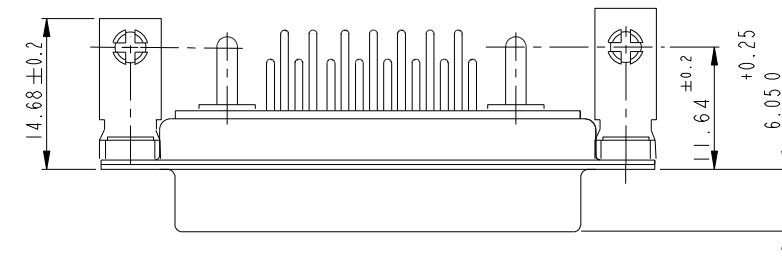
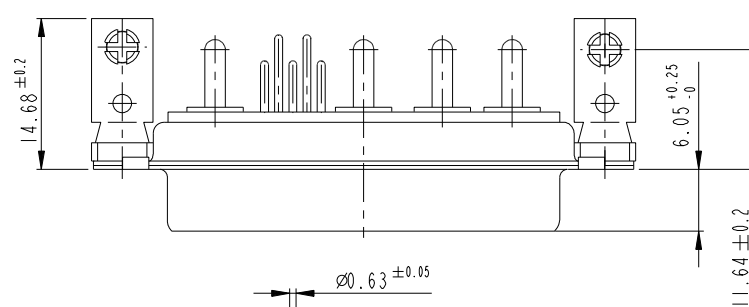
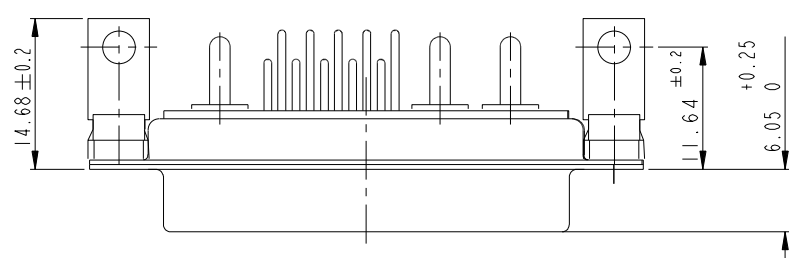
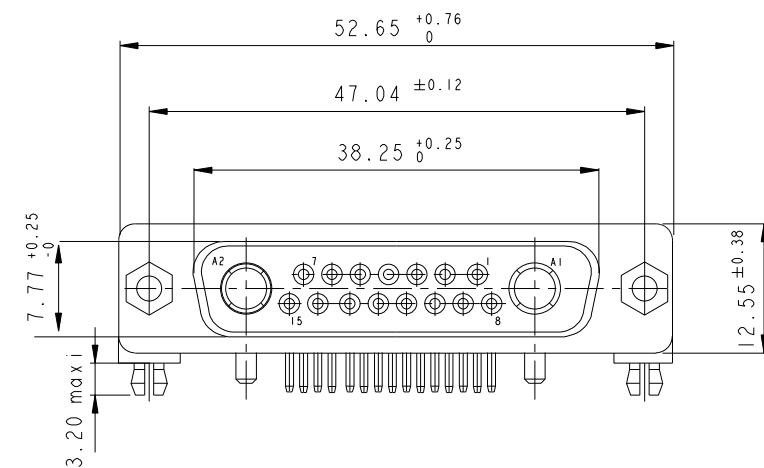
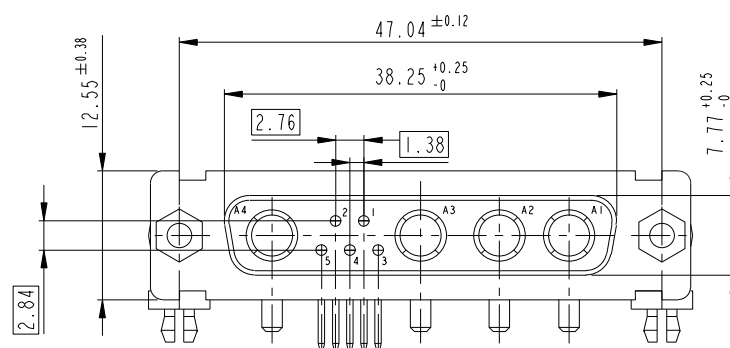
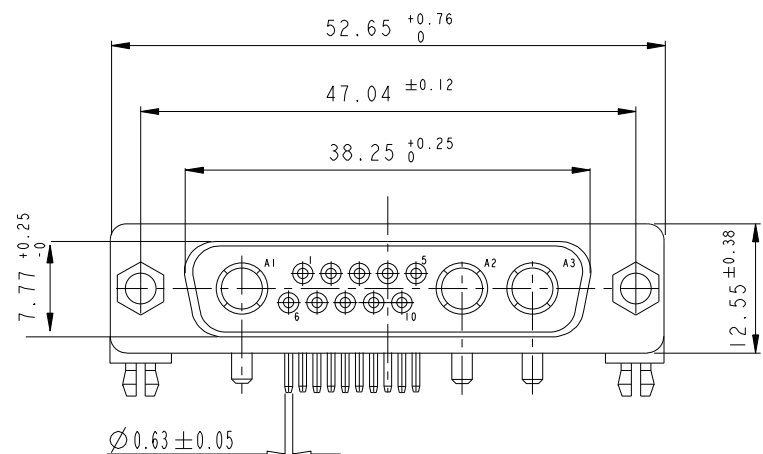
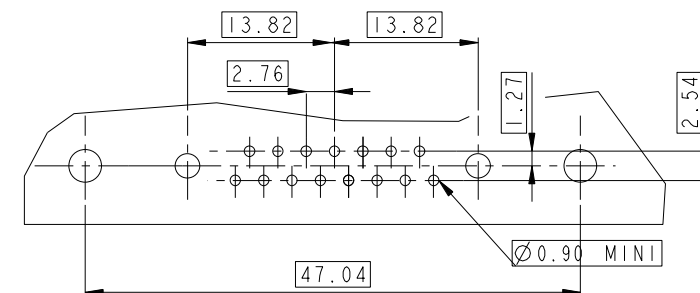
9W4

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

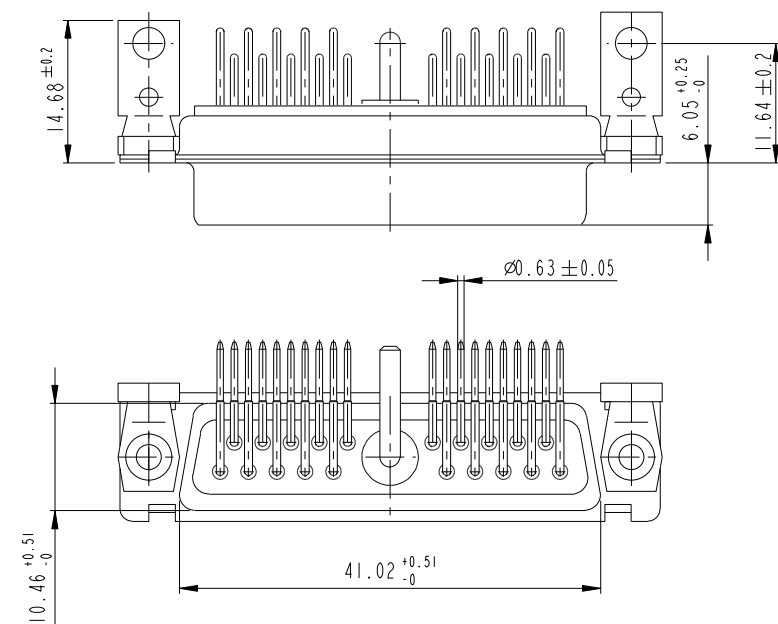
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			TOLERANCES UNLESS OTHERWISE SPECIFIED							
Dr	M PESSON	2005-10-11	ANGULAR	LINEAR	0.x ±0.3		size A2	Scale 2:1		
Eng	P LEGARE	2005-10-11			0.XX ±0.1					
Chr			0° ±2°		0.XXX ±0.05		ECN		F10-0060	
Appr			Product family				- Spec ref			
			title SUB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



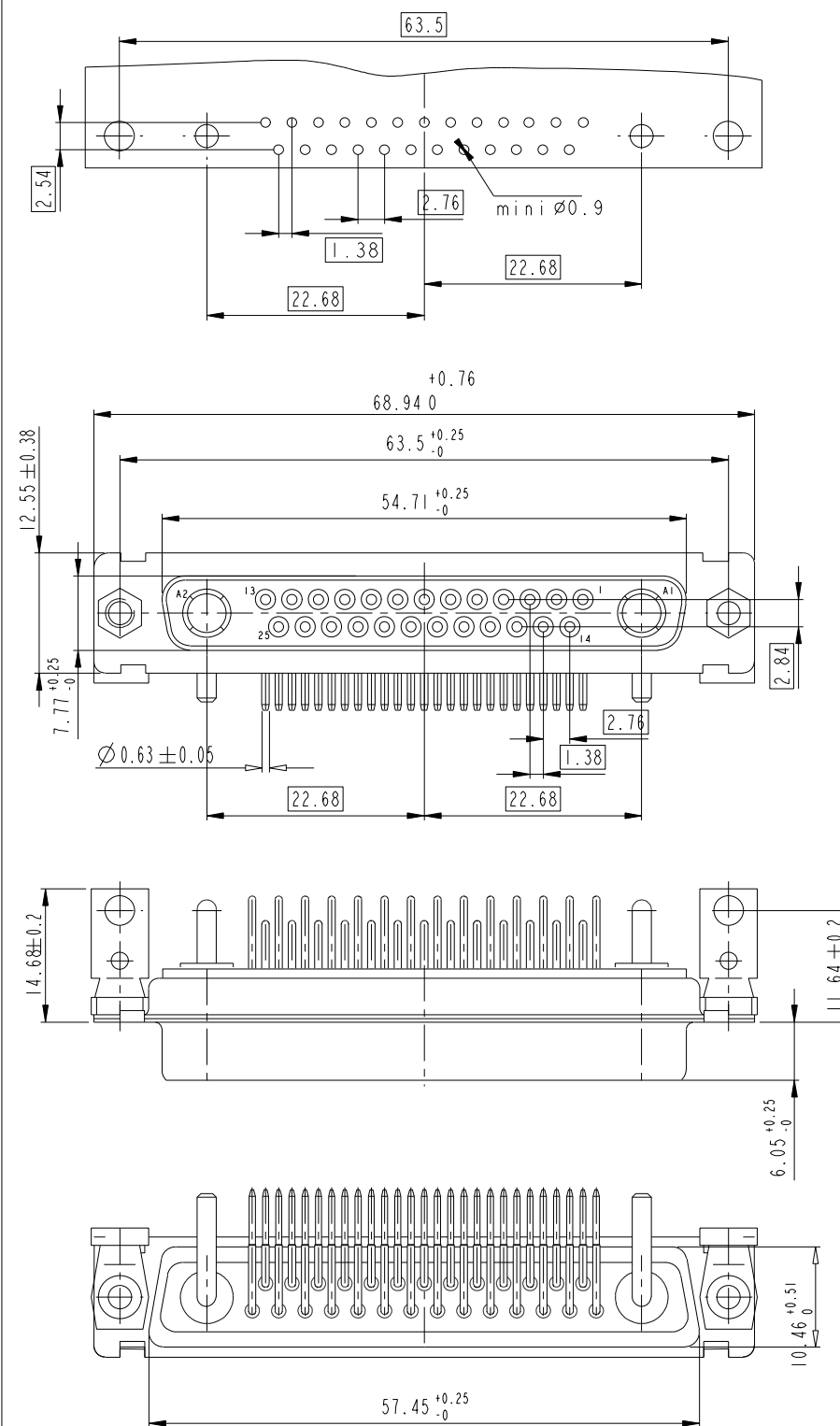
Copyright FCI.

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



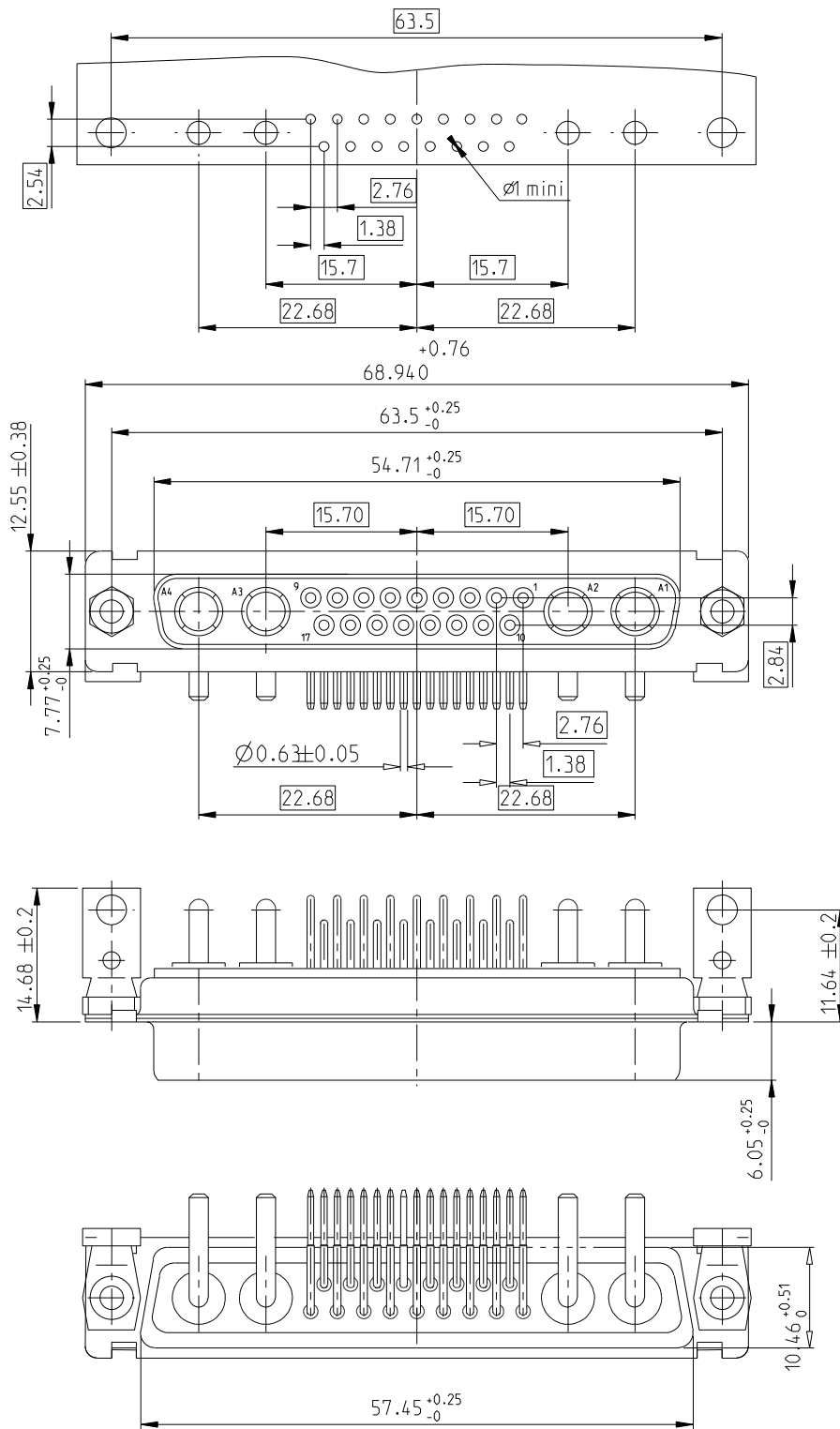
LAYOUT AND CONNECTOR DIMENSIONS



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° ±2°		0.XXX	±0.05	ECN	F10-0060			
Appr			Product family				-	Spec ref			
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										catalog no	

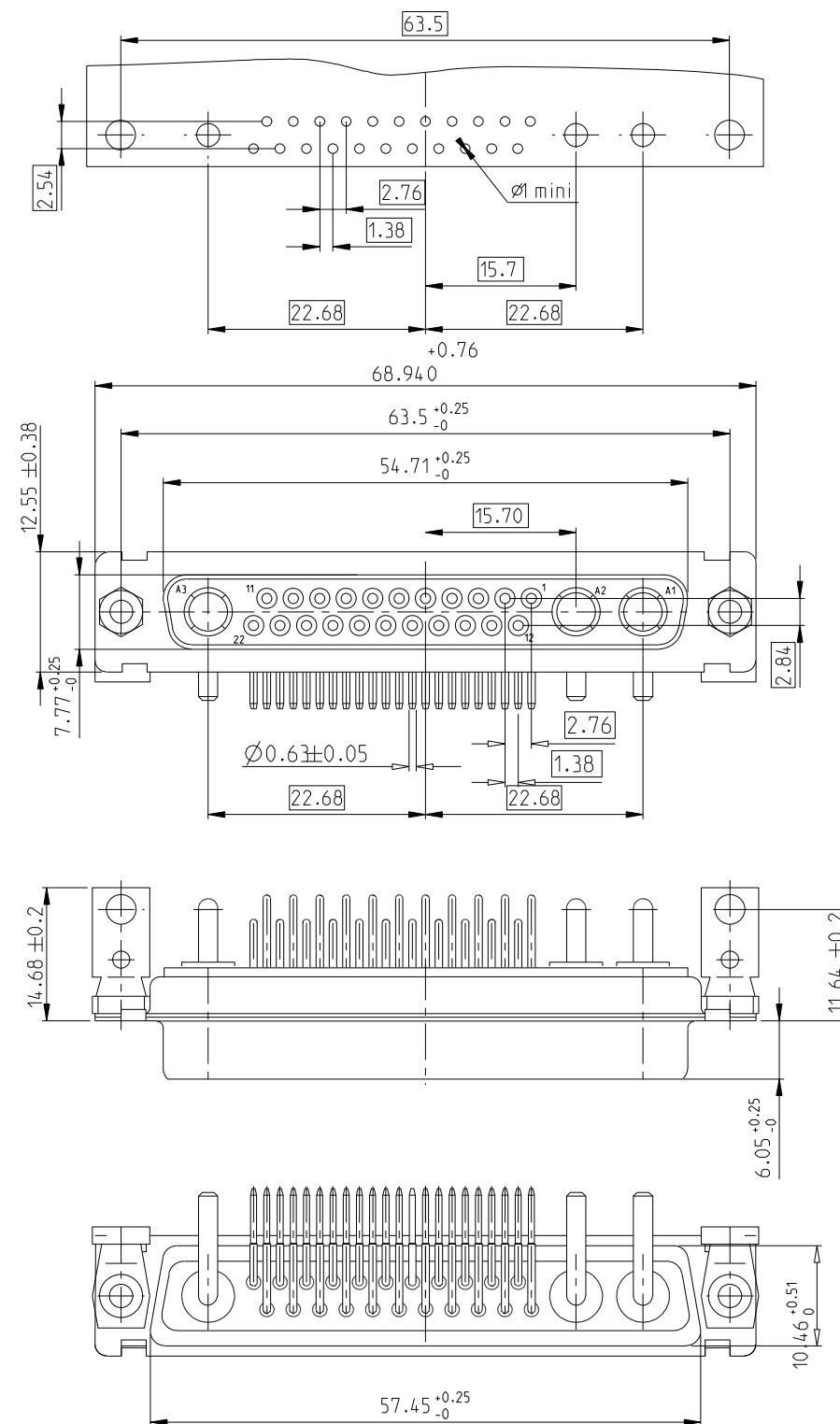
21W A4

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



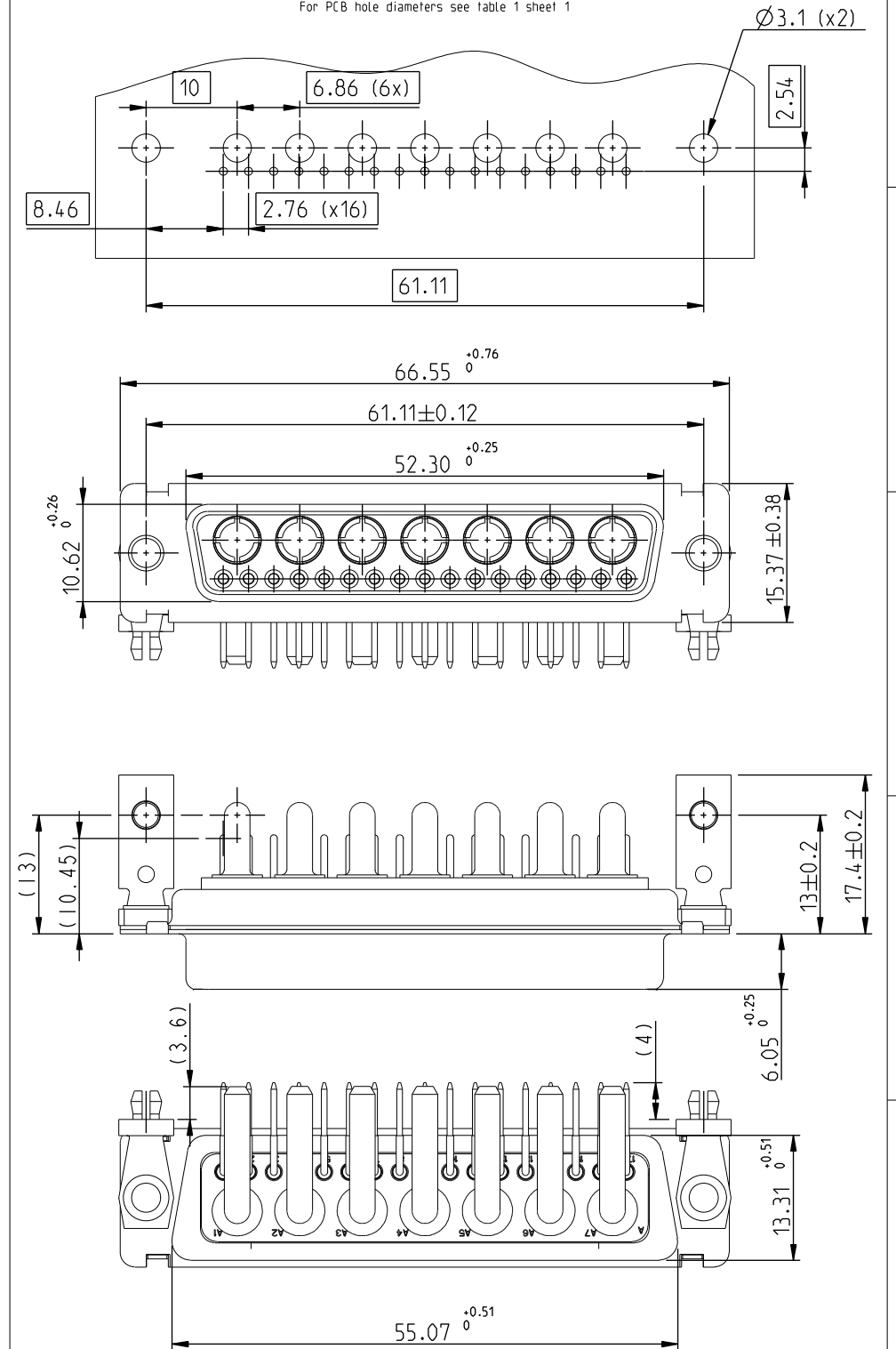
25W 3

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.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		