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: 30A or 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

NOTE RoHS INFORMATION

- The "LF" products meet european union Directives and other country regulations as described in GS-22-008.
- The housing will whistand 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:
  - Ni 1.27µmi+Sn 2.5 to 7.5µ(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

DBL5W5P500G30LF

Series

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
- **I** : female screw M3

Layout of contacts (see sheet 3)

Contacts

- **P** Pin

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

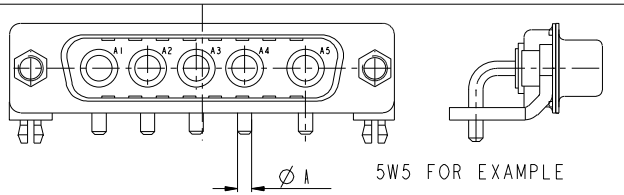
Power contacts

- **00** :Not fitted with power contact (signal contacts always fitted)
- **30** :Fitted with power contacts 30 Amp.
- **40** :Fitted with power contacts 40 Amp.

See note RoHS

TABLE 1:PCB HOLE DIAMETERS

	POWER CONTACTS		ACCESSORIES
30 A	2.00	∅2.40	∅3.10
40 A	2.80	∅3.10	
Max current power	∅A +0.1 0	PCB HOLE +/-0.1	PCB HOLE +/-0.1



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
D	F09-0063	LSA	2009-07-15
E	F09-0092	LSA	2009/09/16
-	-	-	-
-	-	-	-

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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 A2
Eng	P LEGARE	2005-10-11	0° ±2°		0.XX	±0.1	Scale 2:1
Chr					0.XXX	±0.05	ECN F09-0092
Appr			Product family -				Spec ref

title: SUB MALE DW EUROPE foot print full power right angled solder

dwg no: C01-8639-2312 Rev. E

catalog no: - CUSTOMER sheet 1 of 4

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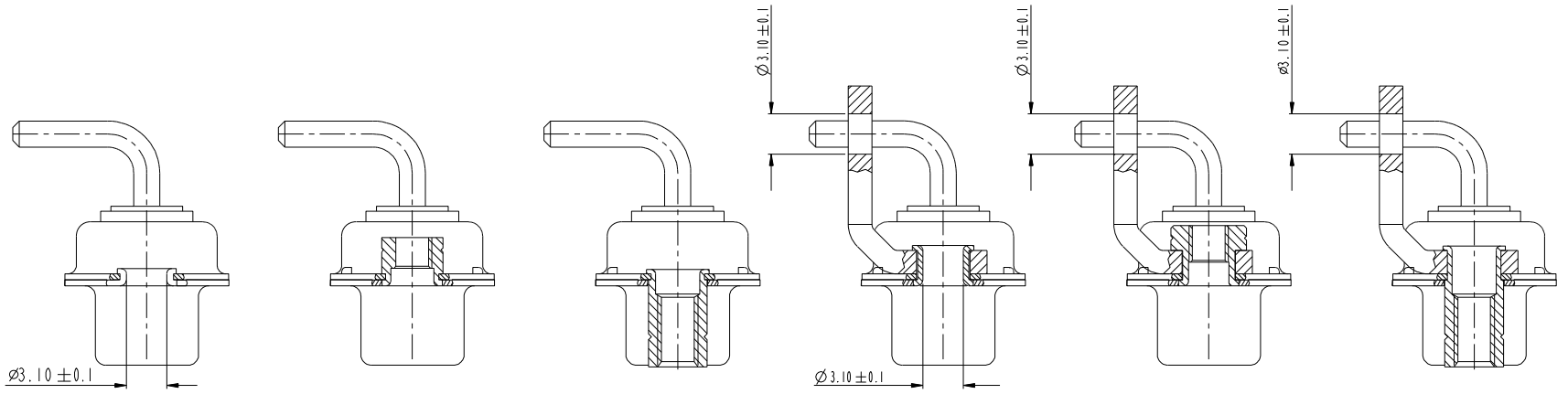
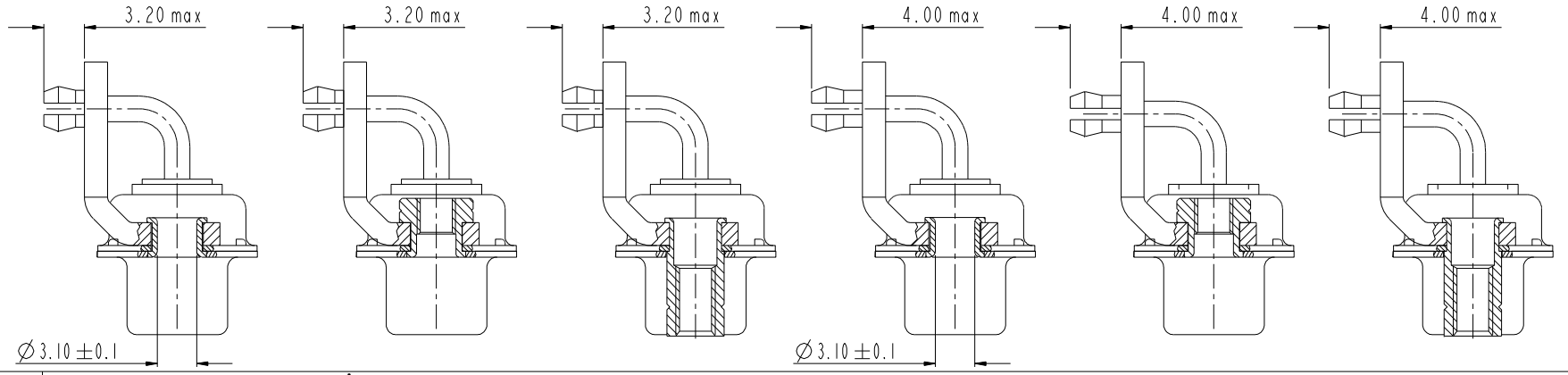


FRONT ACCESSORY	**Blank** Without	**L** insert M3 **O** insert UNC 4.40	**V** Female screw UNC 4.40 **I** Female screw M3	**Blank** Without	**L** insert M3 **O** insert UNC 4.40	**V** Female screw UNC 4.40 **I** Female screw M3
PCB ACCESSORIES	**A** Without	**A** Without	**A** Without	**M** Metal brackets	**M** Metal brackets	**M** Metal bracket



FRONT ACCESSORY	**Blank** Without	**L** insert M3 **O** insert UNC 4.40	**V** Female screw UNC 4.40 **I** Female screw M3	**Blank** Without	**L** insert M3 **O** insert UNC 4.40	**V** Female screw UNC 4.40 **I** Female screw M3
PCB ACCESSORIES	**G** Metal brackets + harpoons for PCB 1.60mm	**G** Metal brackets + harpoons for PCB 1.60mm	**G** Metal brackets + harpoons for PCB 1.60mm	**H** Metal brackets + harpoons for PCB 2.40mm	**H** Metal brackets + harpoons for PCB 2.40mm	**H** Metal brackets + harpoons for PCB 2.40mm

SCALE: 4

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	F09-0092	
Appr			Product family			-	Spec ref		
FCI	title: SUB MALE DW EUROPE foot print full power right angled solder				dwg no: C01-8639-2312			Rev. E	
	catalog no				CUSTOMER			sheet 2 of 4	

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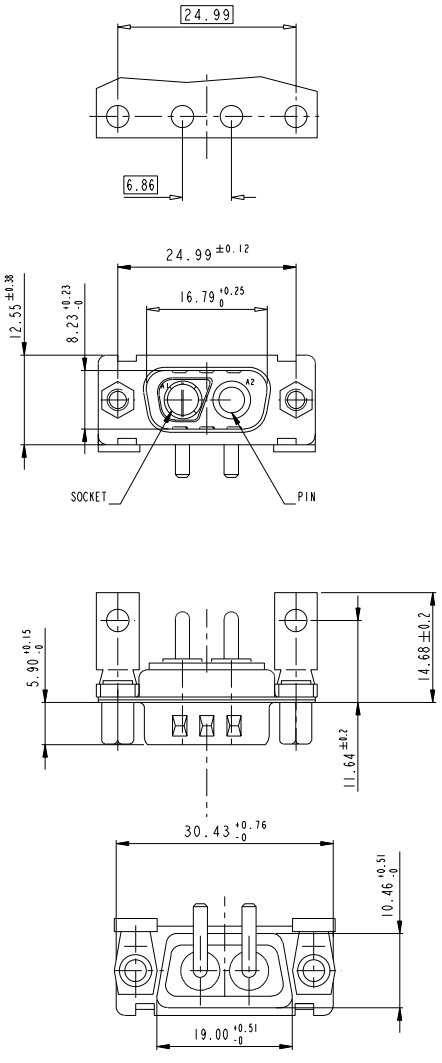
2V2

LAYOUT AND CONNECTOR DIMENSIONS

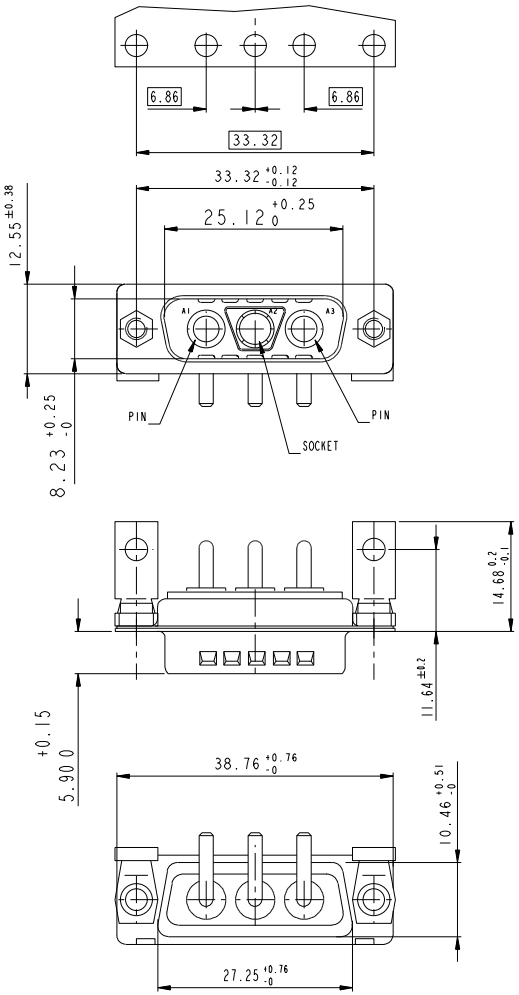
For PCB hole diameters see table 1 sheet 1



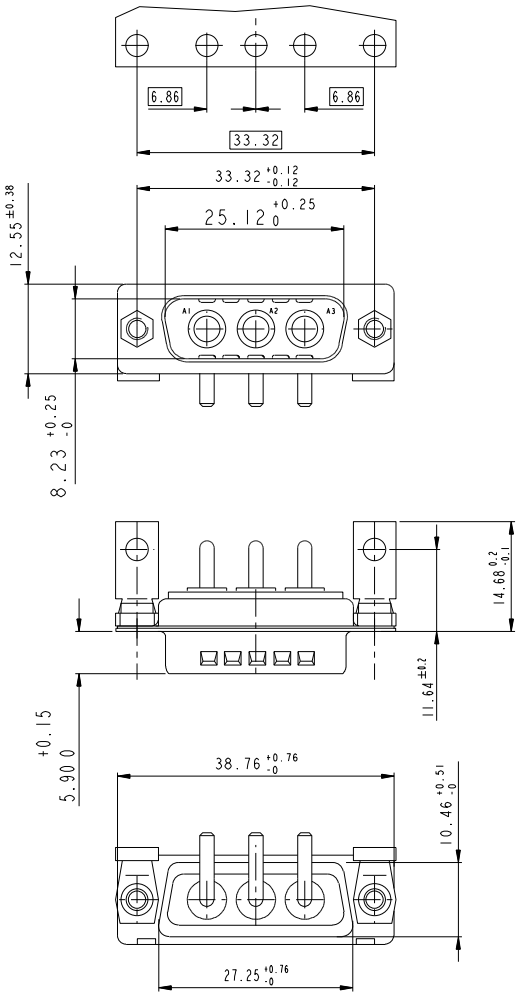
3V3

LAYOUT AND CONNECTOR DIMENSIONS

For PCB hole diameters see table 1 sheet 1

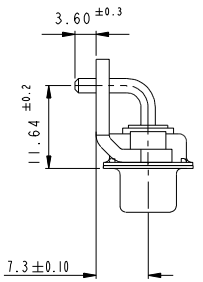


3W3



SIDE VIEW FOR ALL LAYOUTS

VIEW WITH POWERS CONTACTS



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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 A2	Scale 2:1	
Eng	P LEGARE	2005-10-11			0.XX	±0.1			
Chr			0° ±2°		0.XXX	±0.05	ECN F09-0092		
Appr			Product family -				Spec ref		

FCI	title: SUB MALE DW EUROPE foot print full power right angled solder	dwg no: C01-8639-2312	Rev. E
	catalog no	CUSTOMER	sheet 3 of 4

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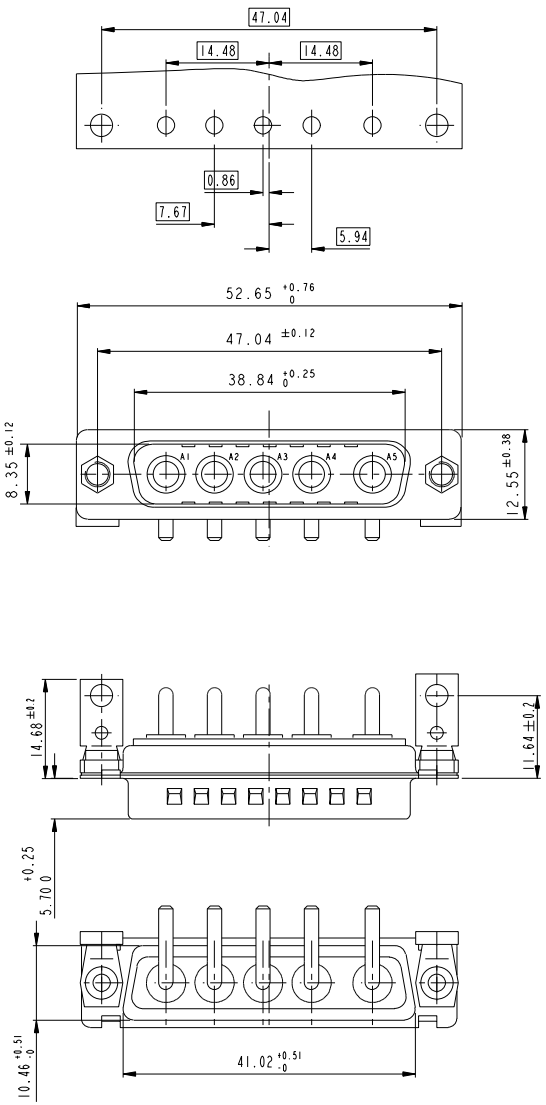
PDM:ReviE STATUS:Released Printed: Jun 20, 2015

5W5

LAYOUT AND CONNECTOR DIMENSIONS

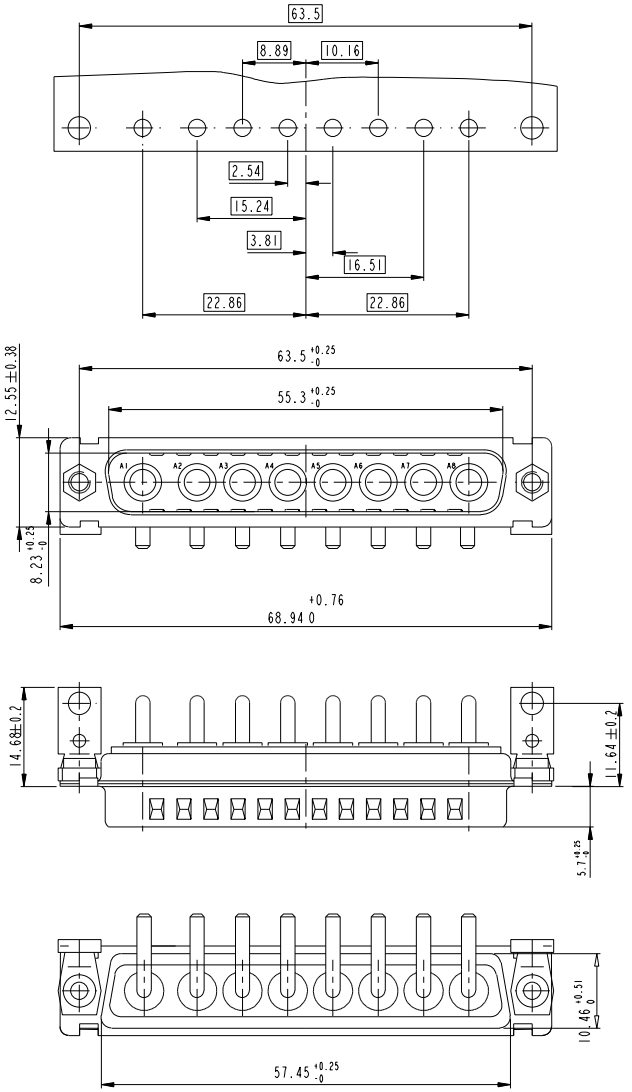
For PCB hole diameters see table 1 sheet 1



8W8

LAYOUT AND CONNECTOR DIMENSIONS

For PCB hole diameters see table 1 sheet 1



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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 A2	Scale 2:1
Eng	P LEGARE	2005-10-11			0.XX	±0.1		
Chr			0° ±2°		0.XXX	±0.05	ECN	F09-0092
Appr			Product family		-		Spec ref	

title	SUB MALE DW EUROPE foot print full power right angled solder	dwg no C01-8639-2312	Rev. E
catalog no		CUSTOMER	sheet 4 of 4

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