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REFERENCE SPECIFICATIONS

-NFC 93425 (in compliance with HE 508)

PHYSICAL CHARACTERISTICS

-INSULATOR MATERIAL: THERMOSET UL94V0

BRASS

GOLD OVER NICKEL

-ACCESSORIES: BRASS

Cadmium plated, yellow passivation

-SHELLS: STEEL

Cadmium plated, yellow passivation

ELECTRICAL CHARACTERISTICS

-NOMINAL CURRENT: 7.5A

-CONTACT RESISTANCE: <= 7.3 m ohms

-CONTACT/CONTACT : >=1000 V

-CONTACT/GROUND : >=1200 V

-INSULATION RESISTANCE: >=5000 MOhms

ENVIRONMENTAL CHARACTERISTICS

- CLIMATIC CATEGORY: 55/155/56

TEMPERATURE RANGE -55°C TO +155°C

DAMP HEAT STEADY STATE 56 DAYS

SALT SPRAY 48 HOURS

MECHANICAL CHARACTERISTICS

- RETENTION AGAINST TORQUE: - Threaded insert: 0.7 N.m minimum

- Female screw : 0.5 N.m minimum

Series

DBML25P043N

Shell size: E A B C D

see sheet 2

Front accessory definition

see sheet 2

Blank :without accessory

F :floating mounting

L :threaded insert M3

O :threaded insert UNC 4-40

V :female screw UNC 4-40

Contact number (see sheet 2)

9,15,25,37,50

Contacts

P Pin

Plating

Blank :solder bucket 500 matings/unmatings

043 :solder bucket 500 matings/unmatings

for harsh environment

Obligatory for HE508

25WAY for Example

rev	ecn no	dr	date	Dr	M	PESSON	2006/11/14	surface	-	tolerance std	projection	mm			
A	LS06-0174	MPE	2006/11/14	Eng	P	LEGARE	2006/11/14	ANGULAR	LINEAR	0.X	±0.3	size	A2	Scale	2:1
B	LS07-0273	MPE	2007/10/30	Chr	P	LEGARE	2006/11/14	0° ±2°		0.XX	±0.1	ECN	LS07-0273		
-	-	-	-	Appr	P	LEGARE	2006/11/14			0.XXX	±0.05	Product family	-	Spec ref	

FCI

SUB MALE DM HE508 series

with solder bucket

catalog no

deg no

C01-8637-1741

Rev.

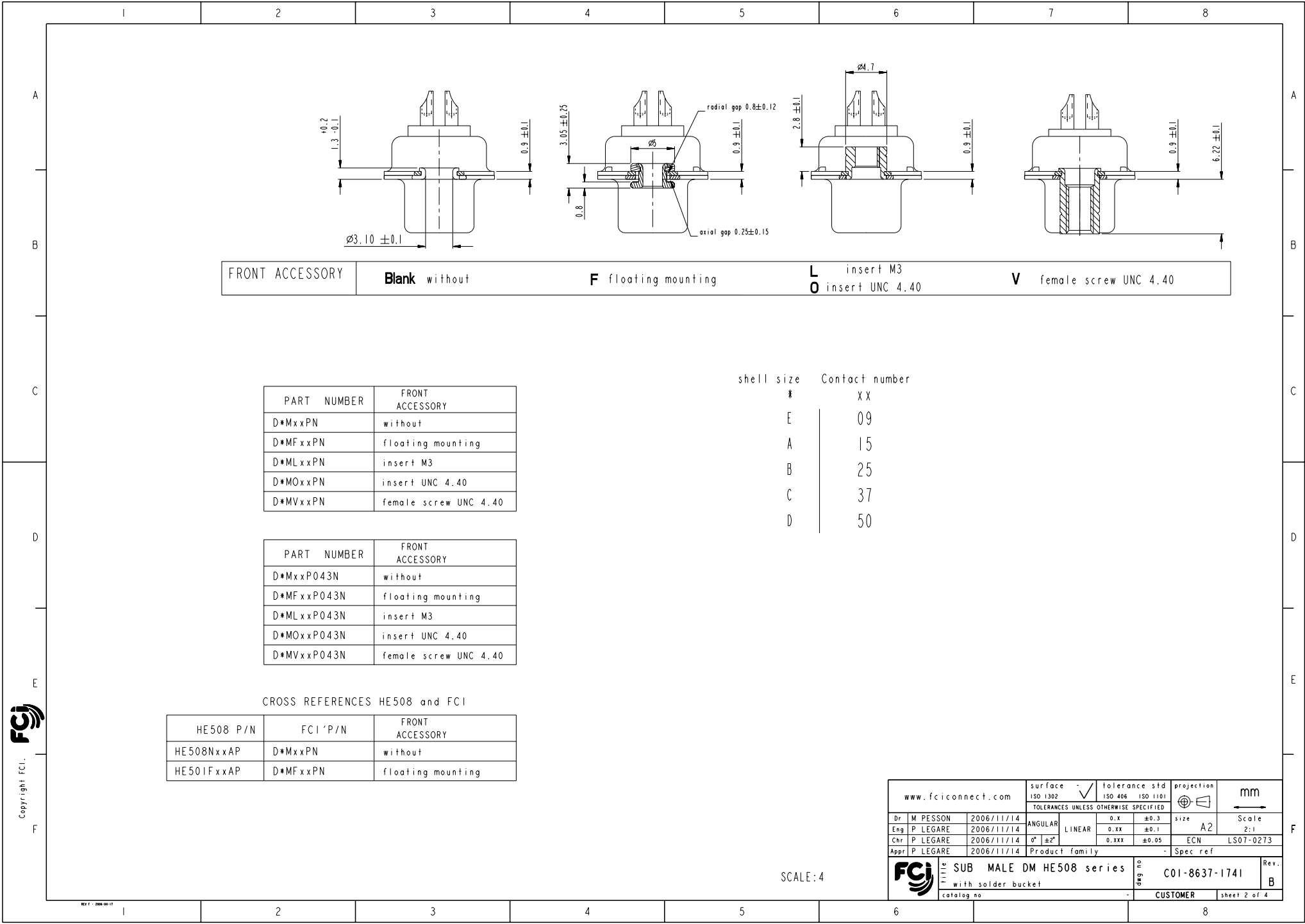
B

CUSTOMER

sheet 1 of 4

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REV 7 - 2006-04-17



Copyright FCI.

shell size	Contact number
#	XX
E	09
A	15
B	25
C	37
D	50

CROSS REFERENCES HE508 and FCI

SCALE: 4

www.fciconnect.com

Dr	M PESSON	2006/11/14
Eng	P LEGARE	2006/11/14
Chr	P LEGARE	2006/11/14
Appr	P LEGARE	2006/11/14

surface

ISO 1302

✓

tolerance std

ISO 406

ISO 1101

TOLERANCES UNLESS OTHERWISE SPECIFIED

ANGULAR

LINEAR

0.X

0.XX

0.XXX

±0.3

±0.1

±0.05

projection

size

mm

A2

Scale

2:1

ECN

LS07-0273

Spec ref

FCI

with solder bucket

catalog no

SUB MALE DM HE508 series

deg no

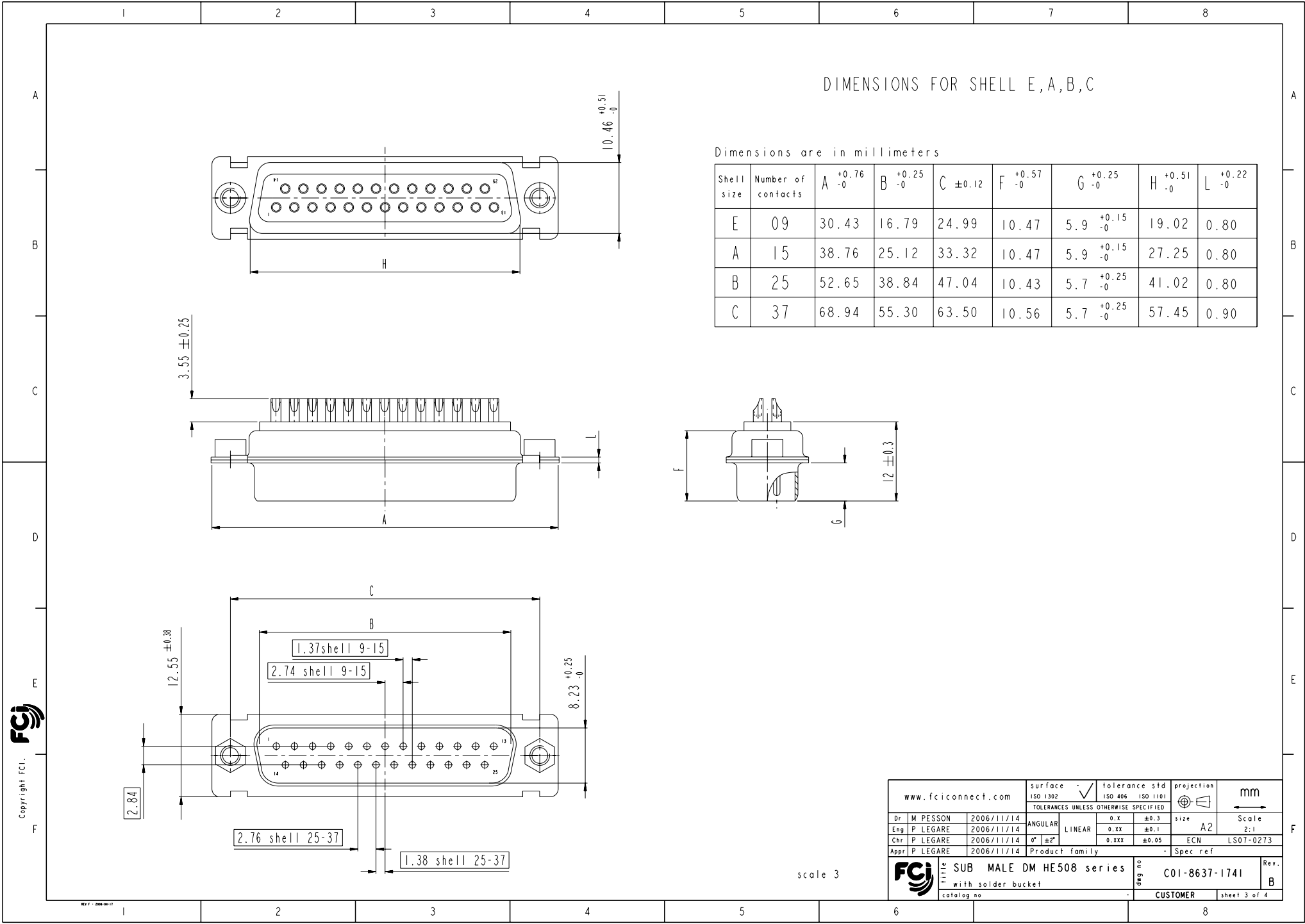
C01-8637-1741

Rev.

B

CUSTOMER

sheet 2 of 4



DIMENSIONS FOR SHELL E,A,B,C

Dimensions are in millimeters

Shell size	Number of contacts	A ^{+0.76 -0}	B ^{+0.25 -0}	C ±0.12	F ^{+0.57 -0}	G ^{+0.25 -0}	H ^{+0.51 -0}	L ^{+0.22 -0}
E	09	30.43	16.79	24.99	10.47	5.9 ^{+0.15 -0}	19.02	0.80
A	15	38.76	25.12	33.32	10.47	5.9 ^{+0.15 -0}	27.25	0.80
B	25	52.65	38.84	47.04	10.43	5.7 ^{+0.25 -0}	41.02	0.80
C	37	68.94	55.30	63.50	10.56	5.7 ^{+0.25 -0}	57.45	0.90

Technical drawing of a 16-pin D-sub connector showing three views: top, side, and front.

Top View Dimensions:

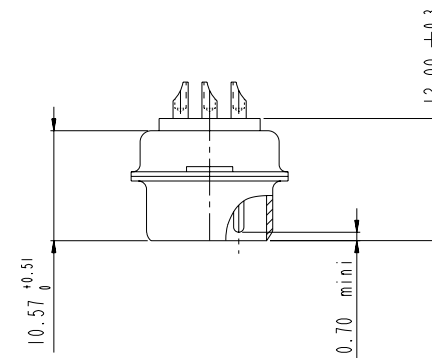
- Overall width: 61.11 ± 0.12
- Pin pitch: 2.54
- Pin diameter: 0.85
- Overall height: 15.37 ± 0.38
- Pin array width: $52.68^{+0.25}_0$
- Pin array height: 9.00 ± 0.4
- Pin array depth: 1.00 ± 0.12
- Pin array thickness: $5.70^{+0.25}_0$

Side View Dimensions:

- Overall height: 1.70 max i
- Pin array height: 3.55 ± 0.25
- Pin array depth: 1.00 ± 0.12
- Pin array thickness: $5.70^{+0.25}_0$

Front View Dimensions:

- Overall width: $66.55^{+0.76}_0$
- Pin array width: $55.07^{+0.51}_0$
- Pin array height: $13.31^{+0.51}_0$
- Pin array depth: 1.38
- Pin array thickness: 2.76
- Pin array diameter: 2.84
- Pin array depth: 2.84
- Pin array thickness: 2.84



www.fciconnect.com		surface ☒ tolerance std 150 1302 150 406 150 1161		projection 		mm 		
TOLERANCES UNLESS OTHERWISE SPECIFIED								
Dr	M PESSON	2006/11/14	ANGULAR	LINEAR	0.X	±0.3	size A2	Scale 2:1
Eng	P LEGARE	2006/11/14			0.XX	±0.1		
Chr	P LEGARE	2006/11/14			0°. ±2°	0.XXX		
Appr	P LEGARE	2006/11/14	Product family			- Spec ref		
 SUB MALE DM HE508 series with solder bucket catalog no		day no -	C01-8637-1741			Rev. B		
			CUSTOMER			sheet 4 of 4		