REFERENCE SPECIFICATIONS

-NFC 93425 (in compliance with HE 501)

PHYSICAL CHARACTERISTICS

-INSULATOR MATERIAL:	THERMOPLASTIC UL94 V-0
-CONTACT MATERIAL:	PHOSPHOR BRONZE 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:	55/125/56
	TEMPERATURE RANGE -55°C TO +125°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

DBML25S043

Series

Shell size: **E A B C D**
see sheet 2

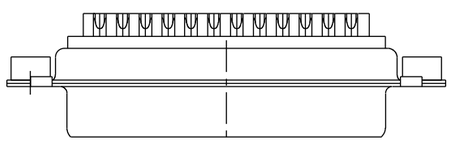
Front accessory definition
see sheet 2

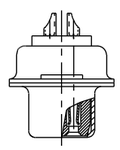
- **Blank** :without accessory
- **F** :floating mounting
- **L** :threaded insert M3
- **O** :threaded insert UNC 4-40
- **V** :female screw UNC 4-40
- **I** :female screw M3

Contact number (see sheet 2)
9,15,25,37,50

Contacts
- **S** :Socket

Plating
- **Blank** :solder bucket 500 matings/unmatings
- **043** :solder bucket 500 matings/unmatings for harsh environment





25 WAY for Example

rev	ecn no	dr	date
A	LS06-0174	MPE	2006/11/14
B	LS07-0217	MLE	2007/08/22
C	LS07-0273	MPE	2007/10/30
D	F10-0072	LSA	2010/07/20
-	-	-	-
-	-	-	-
-	-	-	-

www.fciconnect.com

surface - ISO 1302 | tolerance std ISO 406 ISO 1101 | 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	±0.05	ECN LS07-0273
Appr	P LEGARE	2006/11/14	Product family -				Spec ref

title: SUB FEMALE DM HE501 series with solder bucket

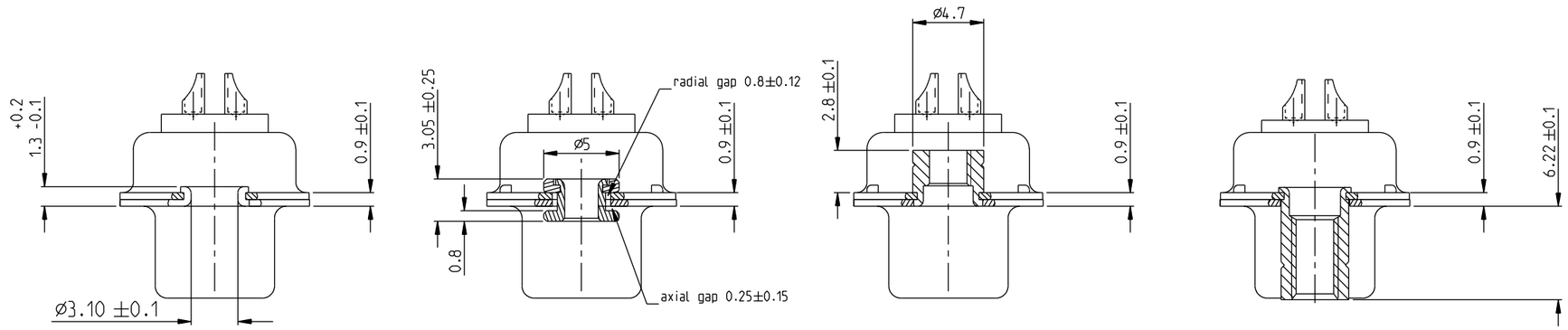
dwg no: C01-8637-1733 | Rev. D

catalog no - | CUSTOMER | sheet 1 of 4

REV E - 2006-03-28

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PDS: Rev :D PDM: Rev:D STATUS:Released STATUS: Released Printed: May 25, 2023 Printed: Apr 28, 2015



FRONT ACCESSORY	**Blank** without	**F** floating mounting	**L** insert M3 **O** insert UNC 4.40	**V** female screw UNC 4.40 **I** female screw M3

PART NUMBER	FRONT ACCESSORY
D*MxxS	without
D*MFxxS	floating mounting
D*MLxxS	insert M3
D*MOxxS	insert UNC 4.40
D*MVxxS	female screw UNC 4.40
D*MIxxS	female screw M3

PART NUMBER	FRONT ACCESSORY
D*MxxS043	without
D*MFxxS043	floating mounting
D*MLxxS043	insert M3
D*MOxxS043	insert UNC 4.40
D*MVxxS043	female screw UNC 4.40
D*MIxxS043	female screw M3

CROSS REFERENCES HE501 and FCI

HE501 P/N	FCI'P/N	FRONT ACCESSORY
HE501NxxAS	D*MxxS	without
HE501FxxAS	D*MFxxS	floating mounting

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

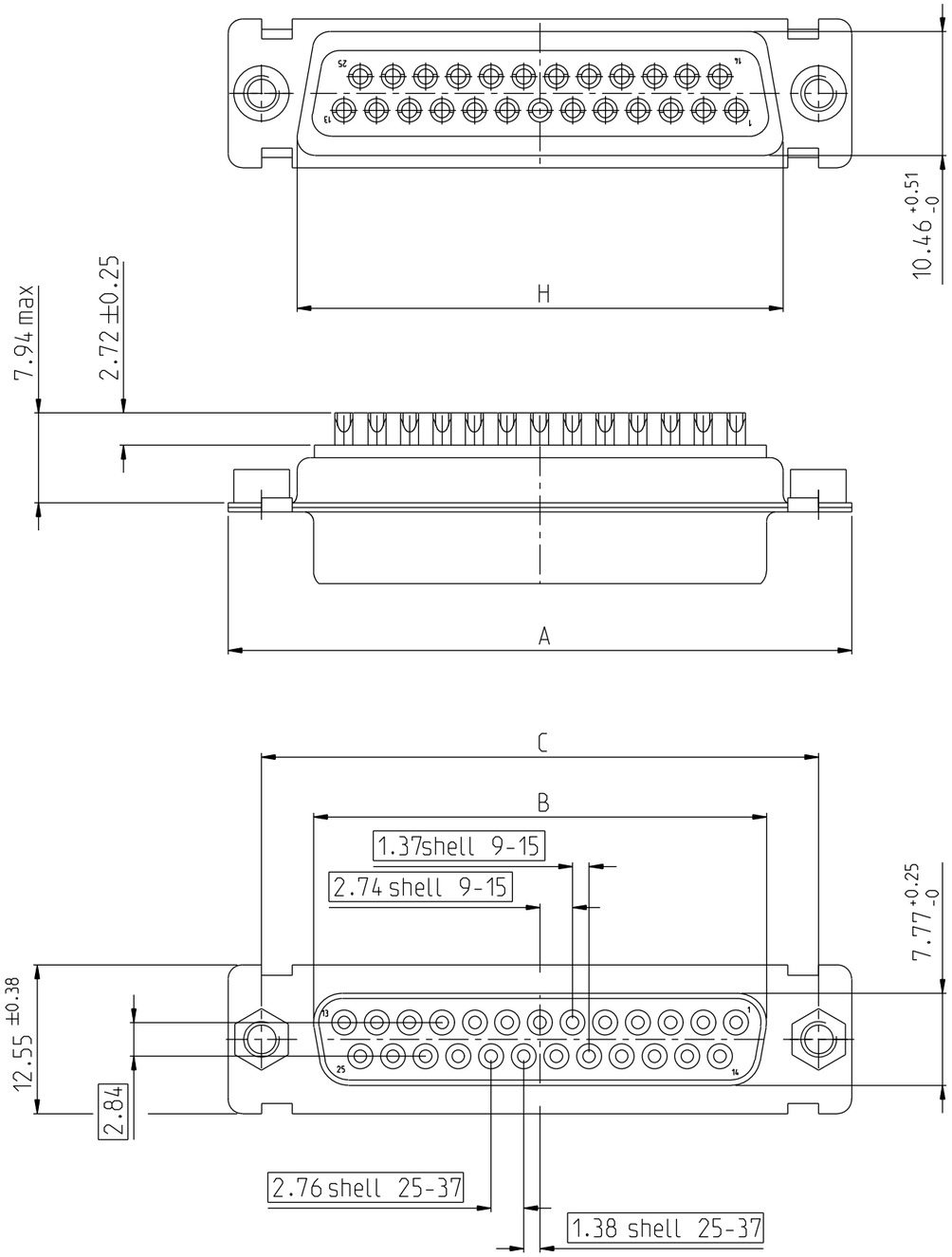
SCALE:4

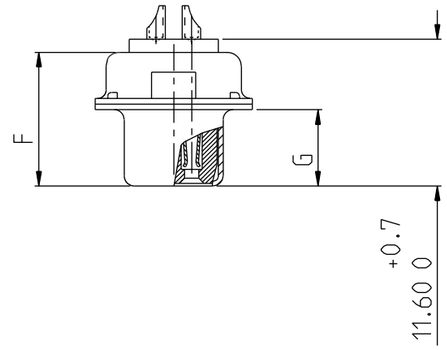
www.fciconnect.com			surface - ISO 1302		tolerance std ISO 406 ISO 1101		projection	mm
			TOLERANCES UNLESS OTHERWISE SPECIFIED					
Dr	M PESSON	2006/11/14	ANGULAR	LINEAR	0.X	±0.3	size A2	Scale 2:1
Eng	P LEGARE	2006/11/14			0.XX	±0.1		
Chr	P LEGARE	2006/11/14	0° ±2°		0.XXX	±0.05	ECN	LS07-0273
Appr	P LEGARE	2006/11/14	Product family			-	Spec ref	
title	SUB FEMALE DM HE501 series with solder bucket				dwg no	C01-8637-1733		Rev. D
catalog no	-				CUSTOMER			sheet 2 of 4

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Printed: Apr 28, 2015

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
E	09	30.43	16.21	24.99	10.64	6.05	19.02
A	15	38.76	24.54	33.32	10.64	6.05	27.25
B	25	52.65	38.25	47.04	10.64	6.05	41.02
C	37	68.94	54.71	63.50	10.64	6.05	57.45

scale 3

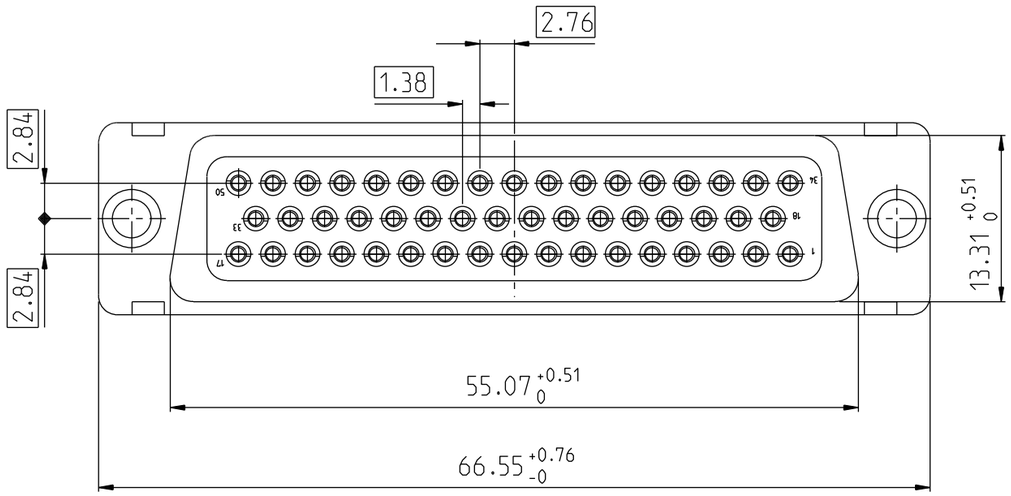
www.fciconnect.com			surface - ISO 1302		tolerance std ISO 406 ISO 1101	projection	mm
			TOLERANCES UNLESS OTHERWISE SPECIFIED				
Dr	M PESSON	2006/11/14	ANGULAR	LINEAR	0.X ±0.3	size A2	Scale 2:1
Eng	P LEGARE	2006/11/14			0.XX ±0.1		
Chr	P LEGARE	2006/11/14	0° ±2°		0.XXX ±0.05	ECN LS07-0273	
Appr	P LEGARE	2006/11/14	Product family -			Spec ref	
FCI	title: SUB FEMALE DM HE501 series with solder bucket			dwg no: C01-8637-1733		Rev. D	
	catalog no -			CUSTOMER		sheet 3 of 4	

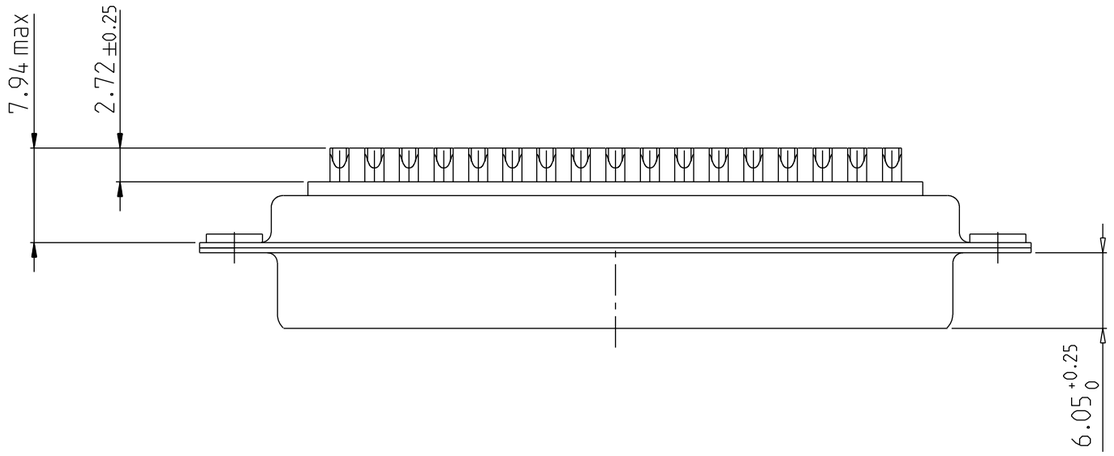
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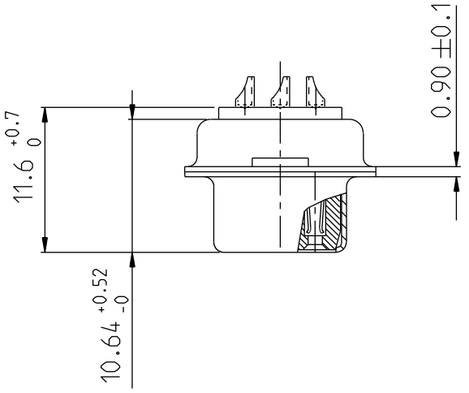
REV E - 2004-03-28

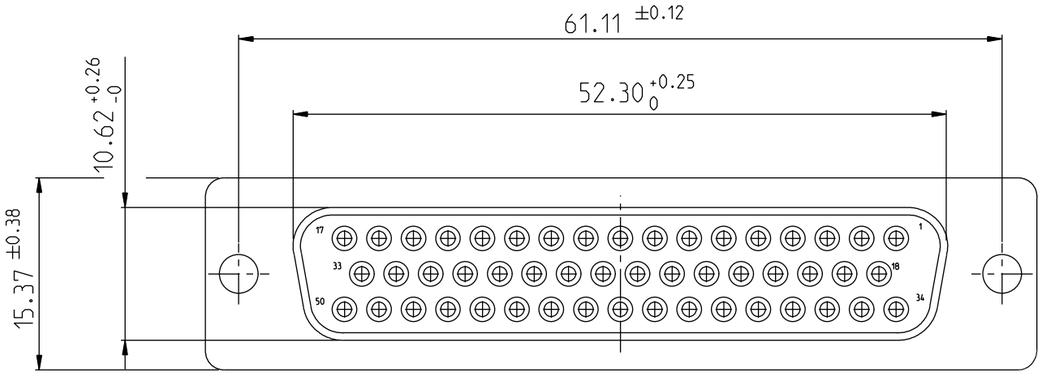
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DIMENSIONS FOR SHELL SIZE D (50 CONTACTS)









scale 3

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TOLERANCES UNLESS OTHERWISE SPECIFIED									
Dr	M PESSON	2006/11/14	ANGULAR	LINEAR	0.X	±0.3	size	Scale	
Eng	P LEGARE	2006/11/14			0.XX	±0.1	A2	2:1	
Chr	P LEGARE	2006/11/14	0° ±2°		0.XXX	±0.05	ECN	LS07-0273	
Appr	P LEGARE	2006/11/14	Product family -				Spec ref		
title	SUB FEMALE DM HE501 series with solder bucket						dwg no	C01-8637-1733	Rev. D
catalog no -							CUSTOMER	sheet 4 of 4	

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