

REFERENCE SPECIFICATIONS

-NFC 93425 (in compliance with HE 508)

PHYSICAL CHARACTERISTICS

- INSULATOR MATERIAL: THERMOSET UL94V0
- CONTACT MATERIAL: 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 DBML 25S300N

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
- :threaded insert UNC 4-40
- V :female screw UNC 4-40
- S :spacer

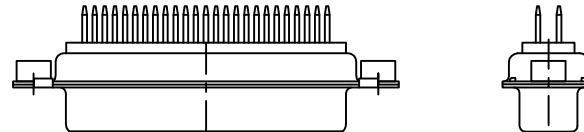
Contact number (see sheet 2)
9,15,25,37,50

Contacts
S :Socket

Termination type
3 :Straight version

Plating
00 : 500 matings/unmatings
43 : 500 matings/unmatings for harsh environment

Obligatory for HE508



25 WAY for Example

rev	ecn no	dr	date
A	LS06-0174	MPE	2006/11/14
B	LS07-0273	MPE	2007/10/30
C	F12-0018	GPE	2012/02/24
-	-	-	-
-	-	-	-
-	-	-	-

www.fclconnect.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.XXX		±0.05				
Appr	P LEGARE	2006/11/14	Product family					- Spec ref			
			SUB FEMALE DM HE508 series					C01-8637-1746		Rev. C	
			with straight solder contact								
			catalog no					- CUSTOMER		sheet 1 of 4	

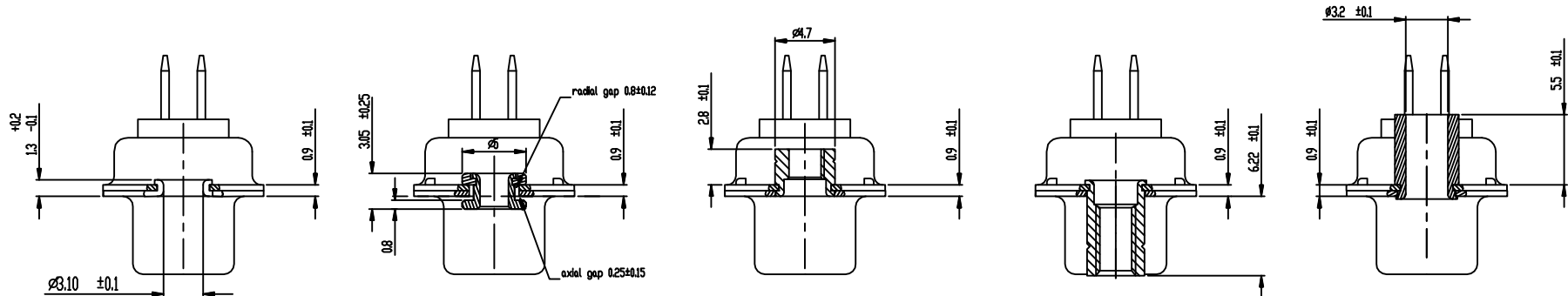
1 2 3 4 5 6 7 8

A

B

A

B



FRONT ACCESSORY	Blank without	F floating mounting	L insert M3 □ insert UNC 4.40	V female screw UNC 4.40	S spacer
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C

C

PART NUMBER	FRONT ACCESSORY
D*MxxS300N	without
D*MFxxS300N	floating mounting
D*MLxxS300N	insert M3
D*MDxxS300N	insert UNC 4.40
D*MVxxS300N	female screw UNC 4.40
D*MSxxS300N	spacer

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

D

D

PART NUMBER	FRONT ACCESSORY
D*MxxS343N	without
D*MFxxS343N	floating mounting
D*MLxxS343N	insert M3
D*MDxxS343N	insert UNC 4.40
D*MVxxS343N	female screw UNC 4.40
D*MSxxS343N	spacer

E

E

CROSS REFERENCES HE508 and FCI

HE508 P/N	FCI P/N	FRONT ACCESSORY
HE508NxxYS4	D*MxxS300N	without
HE508FxxYS4	D*MFxxS300N	floating mounting

F

F

1 2 3 4 5 6 7 8

1 2 3 4 5 6 7 8

A

B

C

D

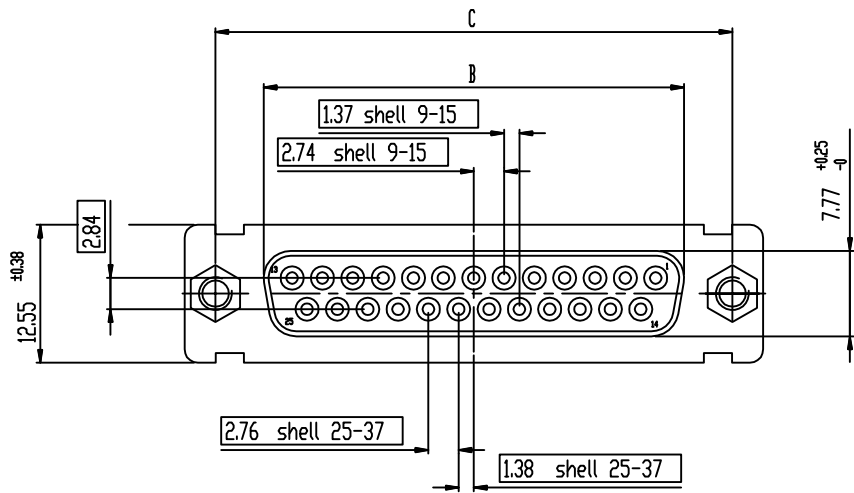
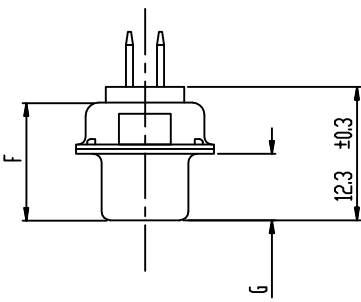
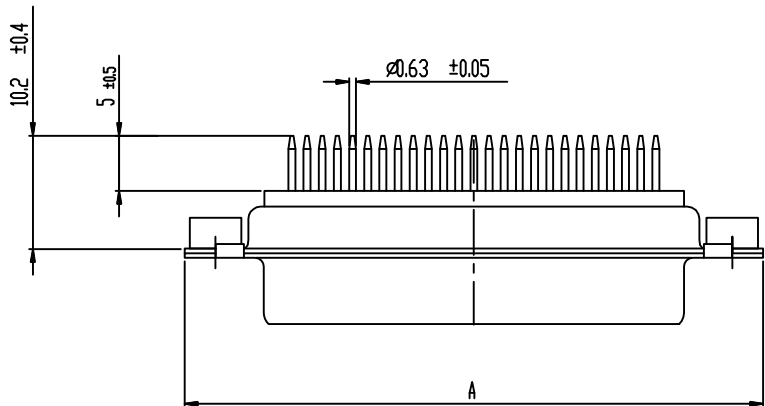
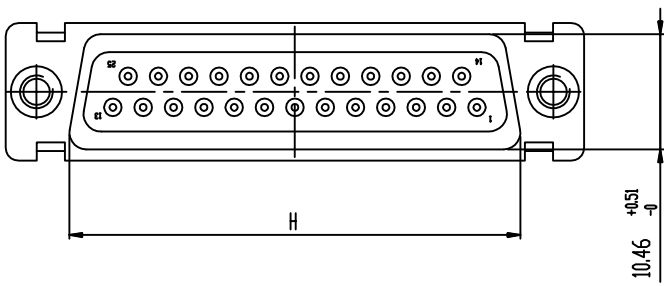
E

F

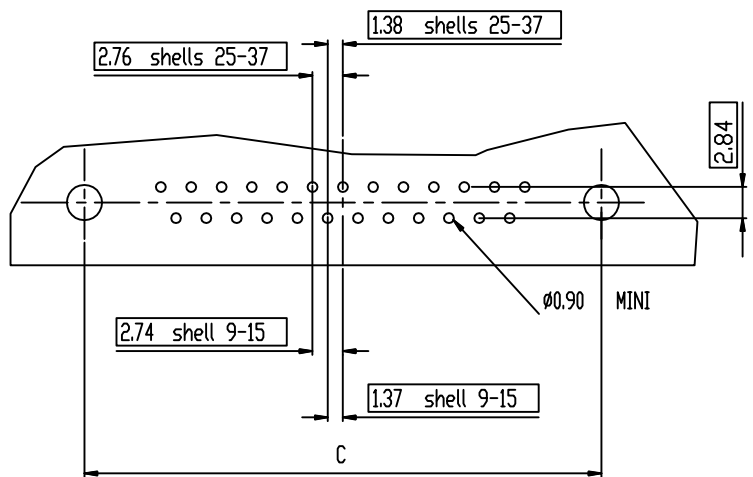
DIMENSIONS FOR SHELL E.A.B.C

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



LAYOUT AND CONNECTOR DIMENSIONS



www.fcconnect.com			surface ISO 1302	✓	tolerance std ISO 406 ISO 1101	projection A2	mm
			TOLERANCES UNLESS OTHERWISE SPECIFIED				
Dr	M PESSON	2006/11/14	ANGULAR	LINEAR	0.X	±0.3	size
Eng	P LEGARE	2006/11/14			0.XX	±0.1	Scale
Chr	P LEGARE	2006/11/14	0° ±2°		0.XXX	±0.05	ECN F12-0018
Appr	P LEGARE	2006/11/14	Product family		- Spec ref		
SUB FEMALE DM HE508 series			C01-8637-1746		Rev.		
with straight solder contact			CUSTOMER		C		
catalog no					sheet 3 of 4		

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