REFERENCE SPECIFICATIONS

-NFC 93425 (in compliance with HE 501)

PHYSICAL CHARACTERISTICS

-INSULATOR MATERIAL: THERMOPLASTIC 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: 55/125/56

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

DBML25P043

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

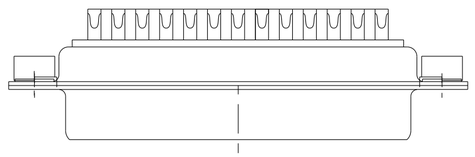
Contact number (see sheet 2)
9,15,25,37,50

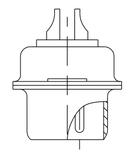
Contacts

P :Pin

Plating

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





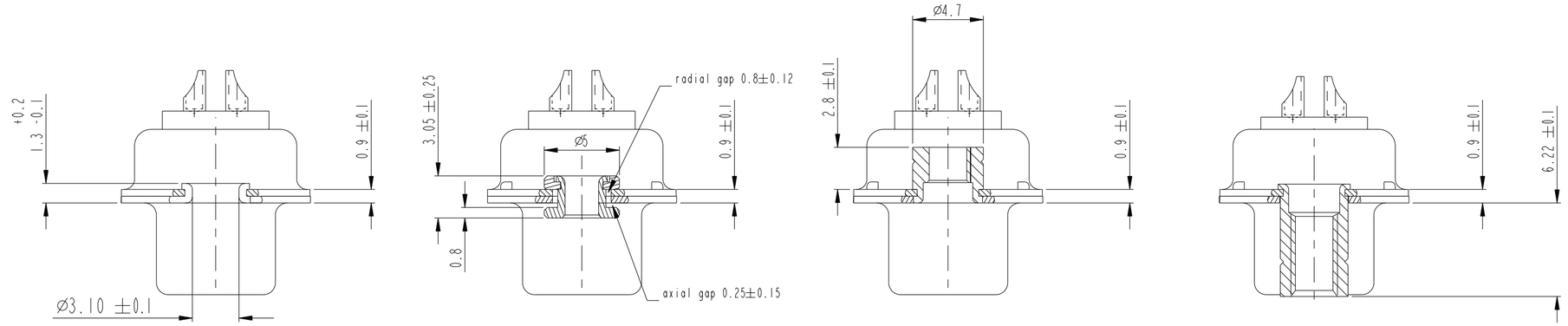
25 WAY for Example

spec ref				dr	1, Product Eng	2015/06/15	projection	mm	size A2	scale 1:1
tolerance std ISO 406 ISO 1101	TOLERANCES UNLESS OTHERWISE SPECIFIED			eng	Gregar Mathew	2021/12/07				
				chr	-	-			ecn no	ELX-I-42954-1
				appr	Kuriakose, San	2021/12/07	product family -		rel level	Released
surface ISO 1302	linear	0.X	±0.3	Amphenol FCi	title	D-SUB MALE DM HE501series with solder buckets			dwg no	C01-8637-1737	rev D
		0.XX	±0.1							
		0.XXX	±0.05							
	angular	0°	±1°	amphenol-icc.com	cat. no. -	Product - Customer Drw			sheet 1 of 4	

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

PART NUMBER	FRONT ACCESSORY
D*MxxP	without
D*MFxxP	floating mounting
D*MLxxP	insert M3
D*MOxxP	insert UNC 4.40
D*MVxxP	female screw UNC 4.40

PART NUMBER	FRONT ACCESSORY
D*MxxP043	without
D*MFxxP043	floating mounting
D*MLxxP043	insert M3
D*MOxxP043	insert UNC 4.40
D*MVxxP043	female screw UNC 4.40

CROSS REFERENCES HE50I and FCI

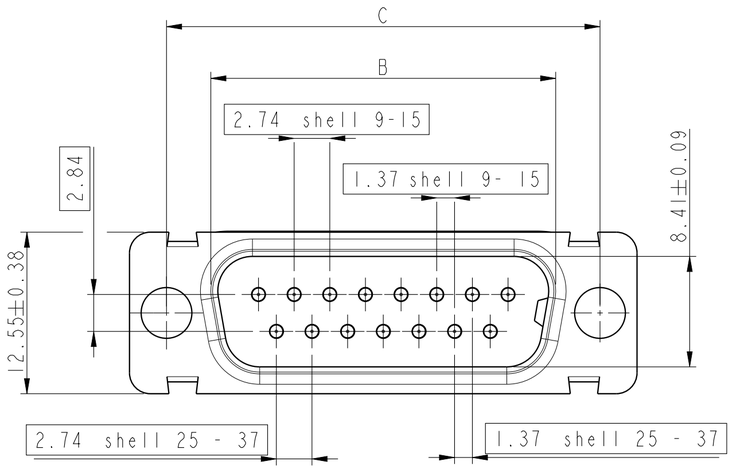
HE50I P/N	FCI´P/N	FRONT ACCESSORY
HE50INxxAP	D*MxxP	without
HE50IFxxAP	D*MFxxP	floating mounting

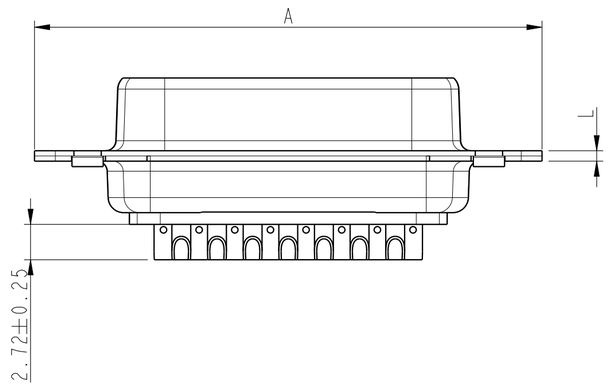
shell size	Contact number
*	XX
E	09
A	15
B	25
C	37
D	50

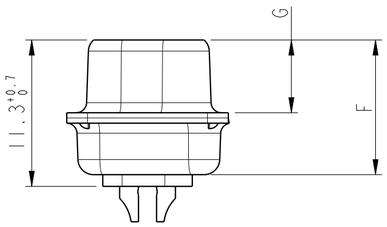
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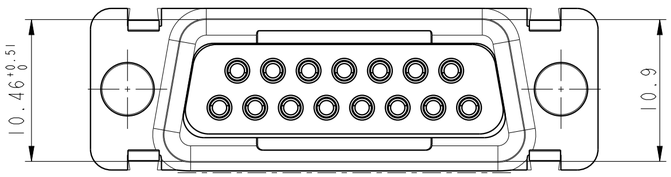
spec ref			dr	1, Product Eng	2015/06/15	projection	mm	size A2 / scale 1:1
tolerance std ISO 406 ISO 1101	TOLERANCES UNLESS OTHERWISE SPECIFIED		eng	Gregar Mathew	2021/12/07			
			chr	-	-			ecn no ELX-I-42954-1
			appr	Kuriakose, San	2021/12/07	product family -		rel level Released
surface -	linear	0.X ±0.3	Amphenol FCi	title D-SUB MALE DM HE50I series with solder buckets			dwg no C01-8637-1737	rev D
		0.XX ±0.1						
ISO 1302		0.XXX ±0.05						
	angular	0° ±1°	amphenol-icc.com	cat. no. -	Product - Customer Drw			sheet 2 of 4

DIMENSIONS FOR SHELL E,A,B,C









SCALE 3:1

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	16.91	24.99	10.47	5.9 +0.15 -0	19.02	0.80
A	15	38.76	25.24	33.32	10.47	5.9 +0.15 -0	27.25	0.80
B	25	52.65	38.96	47.04	10.40	5.7 +0.25 -0	41.02	0.80
C	37	68.96	55.42	63.50	10.56	5.7 +0.25 -0	57.45	0.90

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spec ref

tolerance std ISO 406 ISO 1101

TOLERANCES UNLESS OTHERWISE SPECIFIED

linear	0.X	±0.3
	0.XX	±0.1
	0.XXX	±0.05
angular	0°	±1°

surface - ISO 1302

dr	1, Product Eng	2015/06/15
eng	Gregar Mathew	2021/12/07
chr	-	-
appr	Kuriakose, San	2021/12/07

projection | mm | size A2 | scale 1:1

ecn no ELX-I-42954-1

product family - | rel level Released

Amphenol FCi | amphenol-icc.com

title: D-SUB MALE DM HE501series with solder buckets

dwg no C01-8637-1737 | rev D

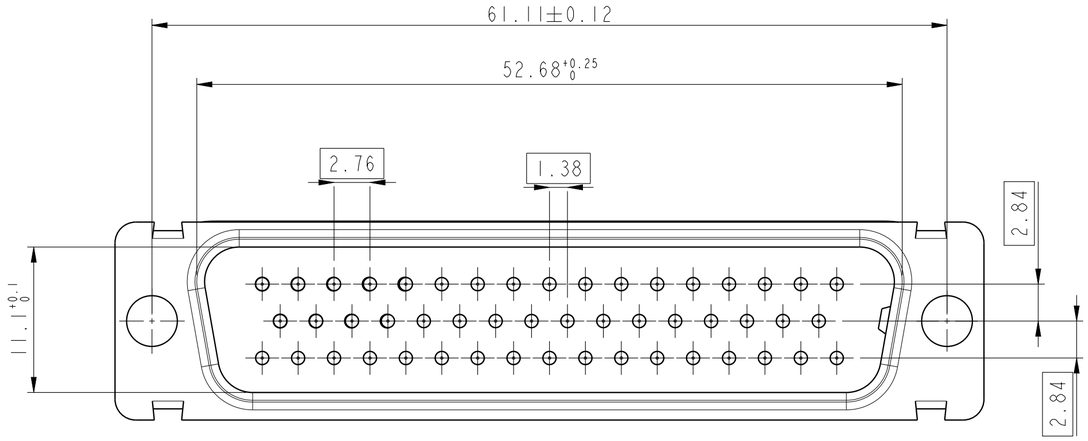
cat. no. - | Product - Customer Drw | sheet 3 of 4

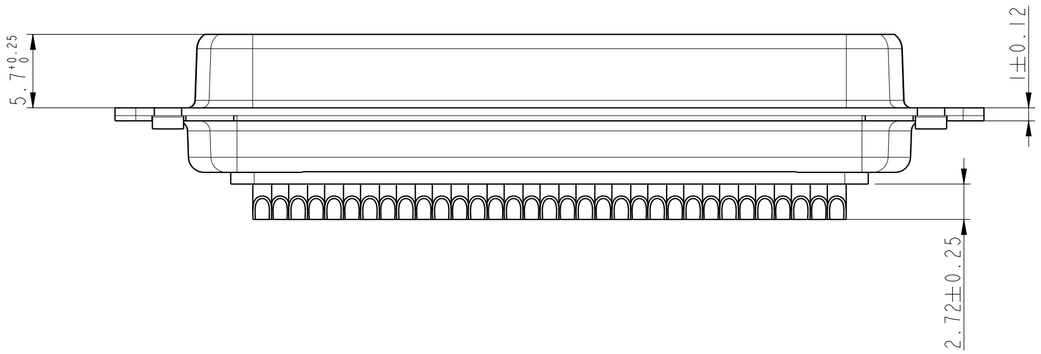
Crea file:ELX-WC-A2C,REV F,2020-12-21

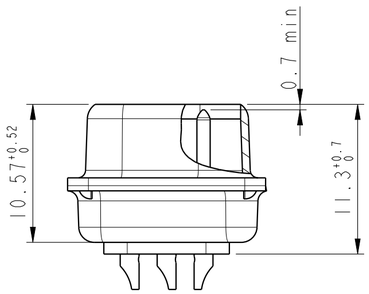
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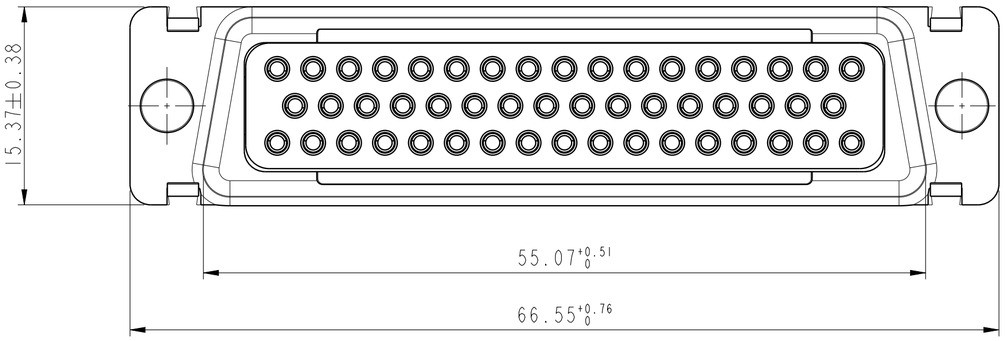
DIMENSIONS FOR SHELL SIZE D (50 CONTACTS)

SCALE 3:1









spec ref				dr	1, Product Eng	2015/06/15	projection	mm
tolerance std ISO 406 ISO 1101	TOLERANCES UNLESS OTHERWISE SPECIFIED			eng	Gregar Mathew	2021/12/07		
				chr	-	-		
				appr	Kuriakose, San	2021/12/07	product family	-
surface - ISO 1302	linear	0.X	±0.3	Amphenol FCi	title	D-SUB MALE DM HE501series with solder buckets	dwg no	C01-8637-1737
		0.XX	±0.1					
		0.XXX	±0.05					
	angular	0°	±1°	amphenol-icc.com	cat. no.	-	Product - Customer Drw	

size	scale	rev
A2	1:1	D

ecn no ELX-I-42954-1

rel level **Released**

sheet 4 of 4

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