

REFERENCE SPECIFICATIONS

- DIN 41652
- MIL-DTL-24308

PHYSICAL CHARACTERISTICS

- INSULATOR MATERIAL:
- PBT COLOR BLACK-RAL 7001/STANDARD MATERIAL
- CONTACT MATERIAL: - PHOSPHOR BRONZE FOR STRAIGHT CONTACT AND RA SOCKET
- BRASS FOR RA PIN
- GROUNDING DEVICE MATERIAL : - BRASS FOR RIGHT ANGLE CONTACT

ELECTRICAL CHARACTERISTICS

- MAXIMUM RATING CURRENT: 5A AT 70°C
- NOMINAL CURRENT: 5A (STANDARD CONDITIONS)
- CONTACT RESISTANCE : straight terminations: <10mW
Right angled termination: <25mΩ
: <35mΩ for 50 way
- VOLTAGE PROOF : >1000 V.r.m.s.
- RATED VOLTAGE : 300 V.r.m.s.
- insulation resistance: >5000mΩ
- creepage and clearance distance: >1mm
- average wiping length: 2mm

MECHANICAL CHARACTERISTICS

- RETENTION AGAINST TORQUE: - Threaded insert: 0.7 N.m minimum
- Female screw lock: 0.5 N.m minimum
- INSERTION AND WITH DRAWAL FORCE: <n x 3.40 N (n number of cts)
- GAUGE RETENTION FORCE : >0.20 N (gauge PM)
- THICKNESS GAUGE = $\varnothing 0.99 \pm 0.005$ / SURFACE ROUGHNESS:
• Ra=0.10μ mini- 0.25μ maxi
- CONTACT RETENTION IN INSULATOR : mini 16N for straight contact
mini 20N for right angled contact
- VIBRATIONS: 10-2000Hz / 1.5 mm - 20g / 3 x 2 HRS
- INTERRUPTION <1μs (NOT APPLICABLE FOR PL3)
- SHOCK: ACC. HALF SINE 50g- 11m.s-6x3 SHOCKS
- INTERRUPTION <1μs
- HARPOON INSERTION FORCE: <60N

PERFORMANCE LEVELS

MECHANICAL ENDURANCE ONLY	
P/N: DXXXXXX	PERFORMANCE LEVELS
4 200 OPERATIONS	PL3
6 400 OPERATIONS	PL1

MECHANICAL ENDURANCE AND INDUSTRIAL ATMOSPHERE TEST(1)		
P/N: DXXXXXX		PERFORMANCE LEVELS
4 salt spray: 24 hours		PL3
6 250 op + test (1 or 2)-10 days + 250 op		PL1

1) INDUSTRIAL ATMOSPHERE TEST: 3 GASES available for contacts and grounding device

IN ACCORDANCE WITH IEC-68-2-60-TTD - TEST ke - MTH C OR IEC 512-6 TEST IIg

MIXED GASES: H2S=10 PPB±5.10-9vol/vol +N2O=200±50.10-9 vol/vol + CL2=10±5.10-9vol/vol

TEMPERATURE = 30±1°C / RELATIVE HUMIDITY= 70±3°C

(2) INDUSTRIAL ATMOSPHERE TEST: 4 GASES available for contacts active area only

BELCORE TEST : MIXED GASES: H2S=10 PPB±5 vol/vol +N2O=200ppb±50 vol/vol + CL2

=10ppb±3vol/vol + S2O=100ppb±30vol/vol

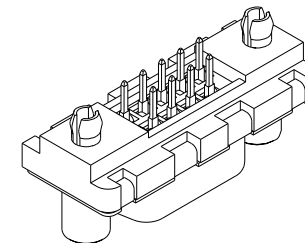
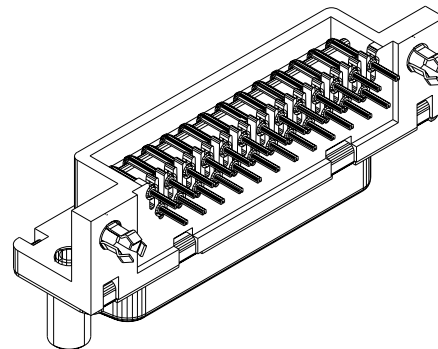
TEMPERATURE = 30±1°C / RELATIVE HUMIDITY= 70±2°C

ENVIRONMENTAL CHARACTERISTICS

- CLIMATIC CATEGORY: 55/125/56
- TEMPERATURE RANGE -55°C TO +125°C
- DAMP HEAT STEADY STATE 56 DAYS

RIGHT ANGLED

STRAIGHT



PLATING TIN LEAD VERSION

- CONTACT:
 - GOLD OVER NICKEL ON MATING SURFACES
 - TIN LEAD OVER NICKEL ON TERMINATION PARTS
- SHELL AND ACCESSORIES TIN LEAD OVER COPPER

PLATING TIN VERSION

NOTE RoHS INFORMATIONS

- The "LF" products meet European union Directives and other country regulations as described in GS-22-008
- The housing will withstand exposure to 260°C peak temperature for 3.5 seconds in a wave solder application with a 1.6 mm minimum thick circuit board. See application notes/procedures if they are available.
- Termination plating spec: 1.27μm Nickel mini, 2.5 to 7.5 μm Sn (pure matte)
- Shell plating: 2 to 4 μm Cu + 3 to 10 μm Sn (pure bright)
- Accessories: Sn pure bright
- Packaging spec: see GS-14-920

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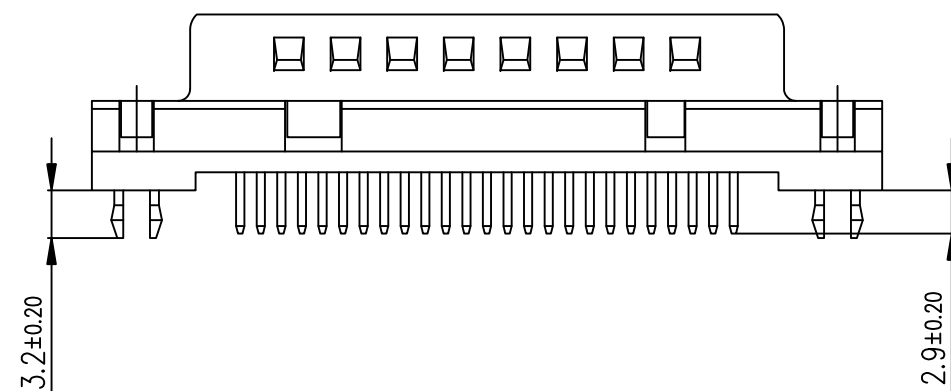
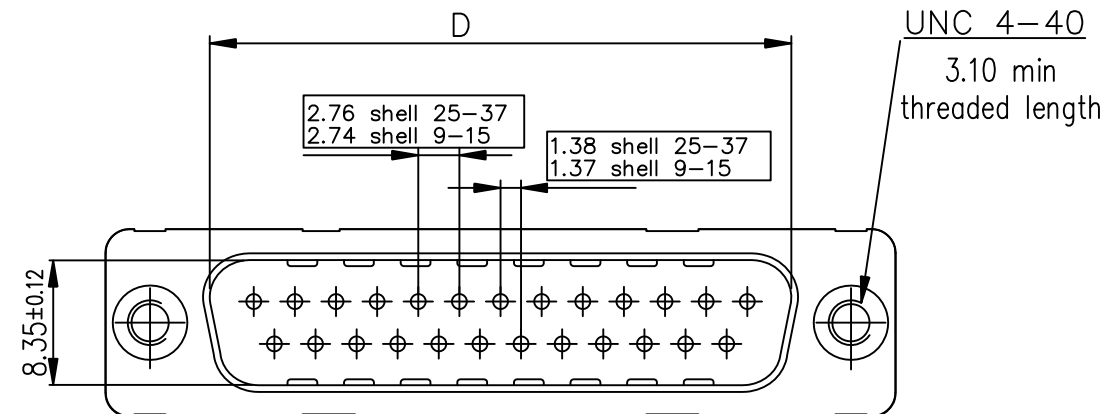
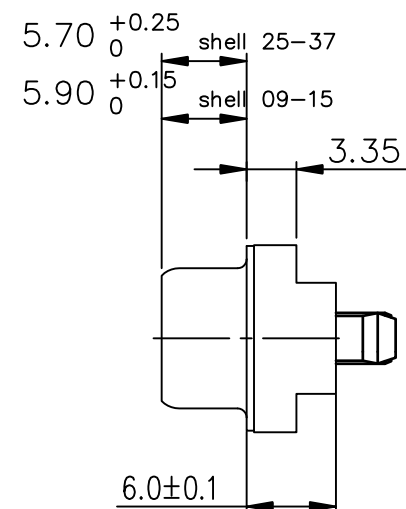
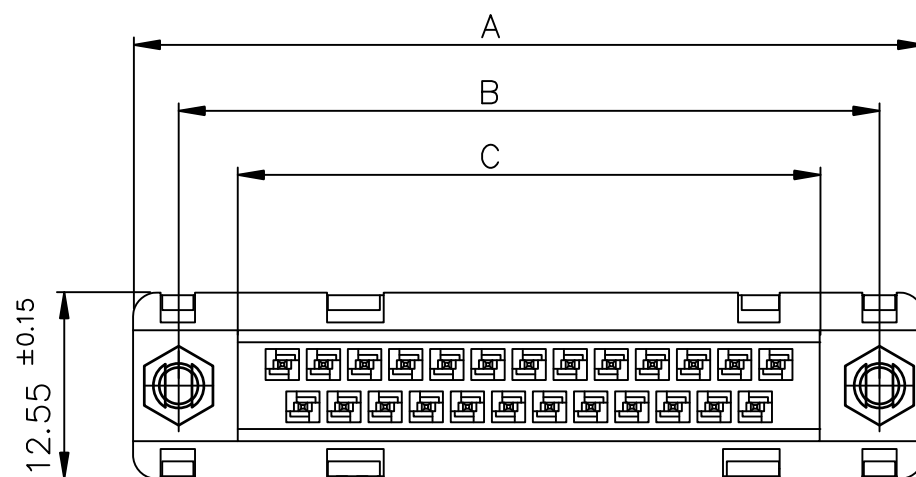
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BELCORE TEST : MIXED GASES: H2S=10 PPB±5 vol/vol +N2O=200ppb±50 vol/vol + CL2

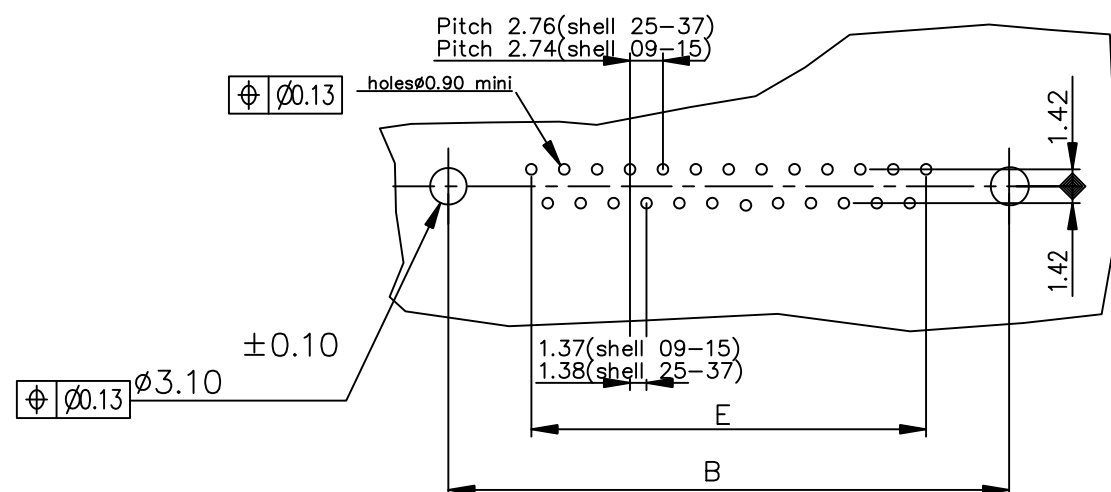
=10ppb±3vol/vol + S2O=100ppb±30vol/vol

TEMPERATURE = 30±1°C / RELATIVE HUMIDITY= 70±2°C

FCI		www.fciconnect.com	surface ☒	tolerance	projection	size	Scale 1:1
Dr	JOUBERT	30/11/00	Product family	-	size	A3	Scale 1:1
Eng			Spec ref				
Chr			Material	SEE NOTES	ECN	LS05-0039	
Appr	LEGARE	30/11/00					
title		DELTA D SOLDER CTS CONNECTORS		dwg no		C01-8646-0000	
		GENERAL CHARACTERISTICS				Rev. C	
		catalog no		CUSTOMER COPY		sheet 1 of 1	



PC card drilling dimensions(after plating)
(thickness 1.60±0.20mm)



LEAD FREE PART NUMBER

SHELL	A±0.38	B±0.12	C±0.10	D±0.25	E±0.07	PART NUMBER
09	30.81	24.99	16.96	16.79	10.96	D09P24A.GX00LF
15	39.14	33.32	25.18	25.12	19.18	D15P24A.GX00LF
25	53.03	47.04	39.12	38.84	33.12	D25P24A.GX00LF
37	69.32	63.50	55.68	55.30	49.68	D37P24A.GX00LF

Protection: 4 --> Flash Au
6 --> 0.76μ Au

GENERAL CHARACTERISTICS AND ROHS INFORMATIONS:

SEE DRAWING C01-8646-0000

mat'l. code —				surface ISO 1302 ✓	tolerance ISO 406 ISO 1101	projection MM	product family D-SUB									
ltr	ecn no	dr	date	tolerances unless otherwise specified		MM	title MALE DELTA-D STRAIGHT , SOLDER TYPE									
K	ELX-I-21654	AB	2015-10-26	angles	linear											
				0°±2°												
				dr	LELEON	1992-09-10	FCI									
				engr	ALIAS BABU	2015-10-26										
				chr	MITHUN PAUL	2015-10-26										
				appd	BIJU K PAUL	2015-10-26										
sheet index	revision sheet	K 1														