

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: <25mW
: <35mW for 50 way
- VOLTAGE PROOF : >1000 V.r.m.s.
- RATED VOLTAGE : 300 V.r.m.s.
- Insulation resistance: >5000mW
- 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

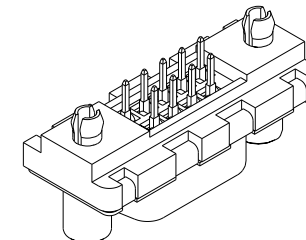
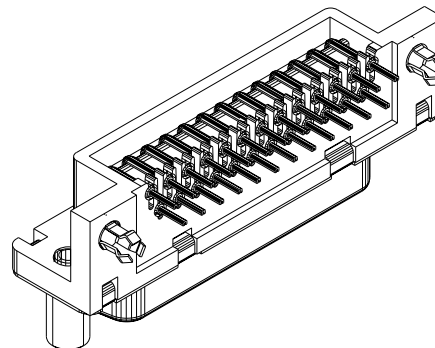
TEMPERATURE = 30±1°C / RELATIVE HUMIDITY= 70±2°C

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

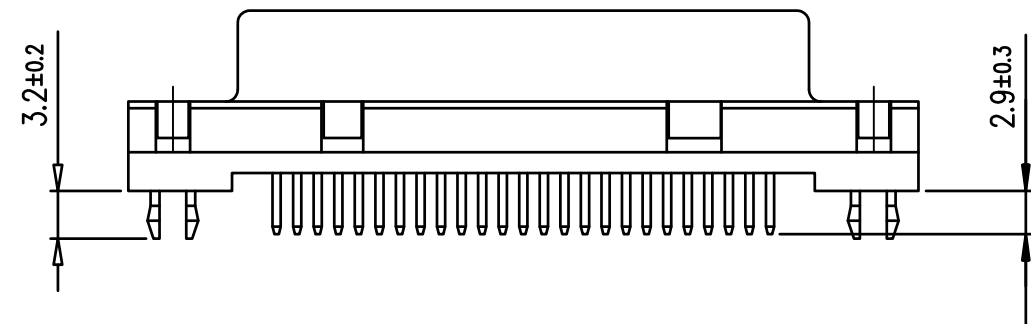
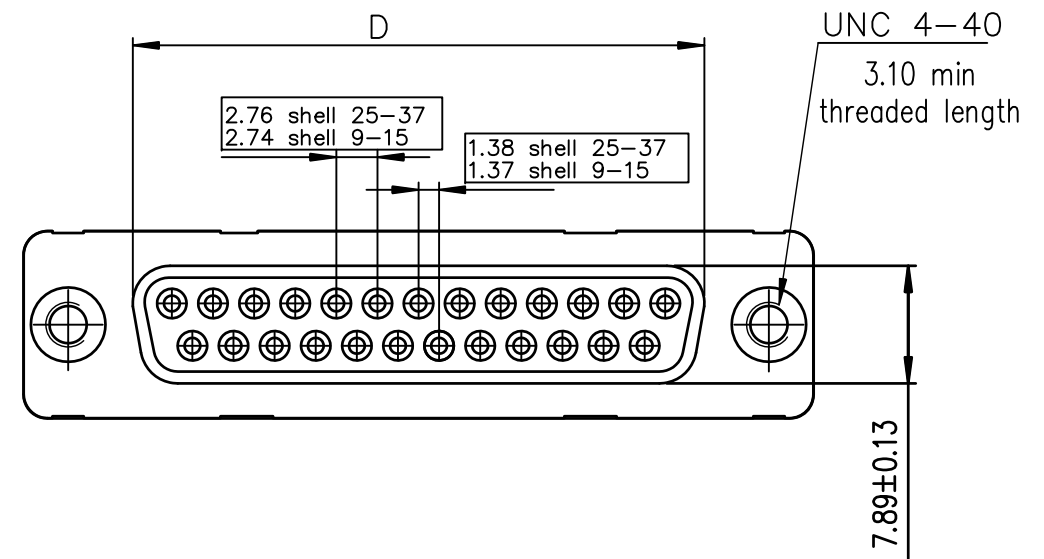
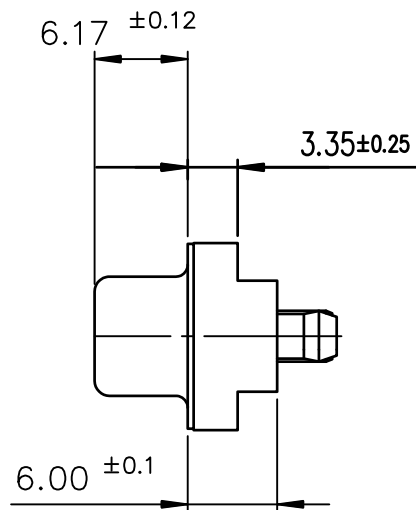
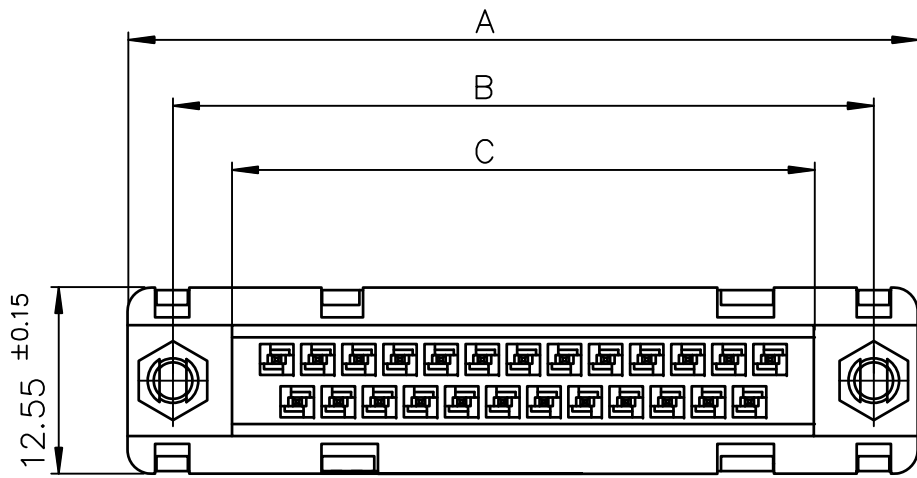
- CONTACT:
 - GOLD OVER NICKEL ON MATING SURFACES
 - TIN LEAD OVER NICKEL ON TERMINATION PARTS
- SHELL AND ACCESSORIES TIN LEAD OVER COPPER

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 thickcircuit 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

FCI		www.fciconnect.com		surface	tolerance	projection		
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						
DELTA D SOLDER CTS CONNECTORS					dwg no	C01-8646-0000	Rev.	C
GENERAL CHARACTERISTICS								
catalog no					CUSTOMER COPY		sheet 1 of 1	

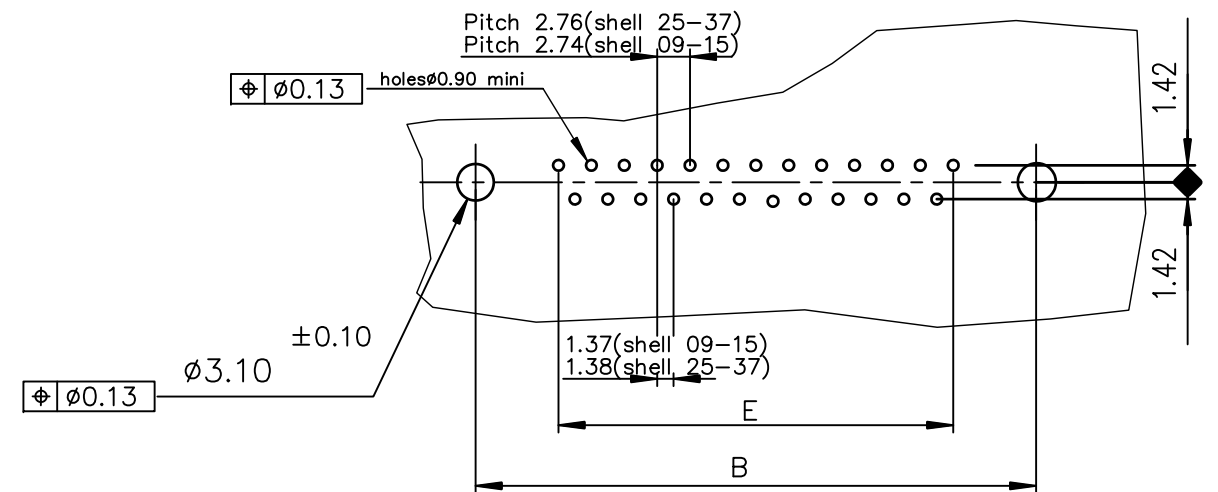


LEAD FREE PART NUMBER

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	16.21	10.96	D09S24A.GX00LF
15	39.14	33.32	25.18	24.54	19.18	D15S24A.GX00LF
25	53.03	47.04	39.12	38.25	33.12	D25S24A.GX00LF
37	69.32	63.50	55.68	54.71	49.68	D37S24A.GX00LF

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

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



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 FEMALE DELTA-D STRAIGHT , SOLDER TYPE			
J	ELX-I-21654	AB	2015-10-26	angles	linear					
				0°±2'						
				dr	JOUBERT	1996-09-10	scale 2:1		dwg no	
				enr	ALIAS BABU	2015-10-26	sheet 1 of 1		size	
				chr	MITHUN PAUL	2015-10-26	C01-8646-0495		A3	
				app	BIJU K PAUL	2015-10-26	type		Product Customer Drawing	
sheet index	revision sheet	J	1							