

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: DXXXXCXXXXXXX	PERFORMANCE LEVELS
4 200 OPERATIONS	PL3
6 400 OPERATIONS	PL1

MECHANICAL ENDURANCE AND INDUSTRIAL ATMOSPHERE TEST(1)	
P/N: DXXXXCXXXXXXX	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%

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

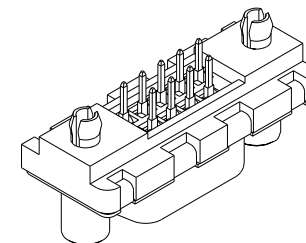
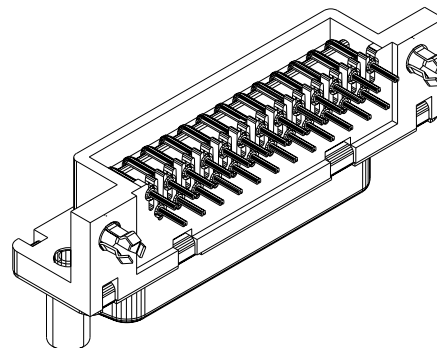
BELCORE TEST : MIXED GASES: H2S=10 PPB±5 vol/vol +N2O=200ppb±50 vol/vol + CL2
=10ppb±3vol/vol + S2O=100ppb±30vol/vol
TEMPERATURE = 30±1°C / RELATIVE HUMIDITY= 70±2%

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

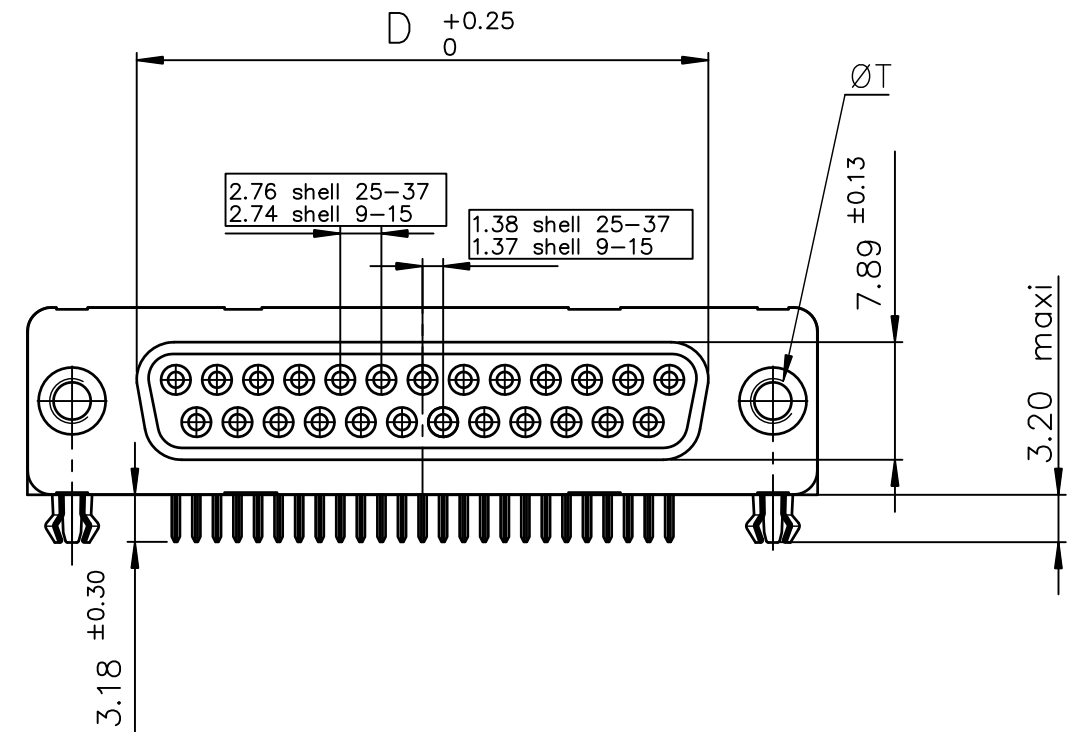
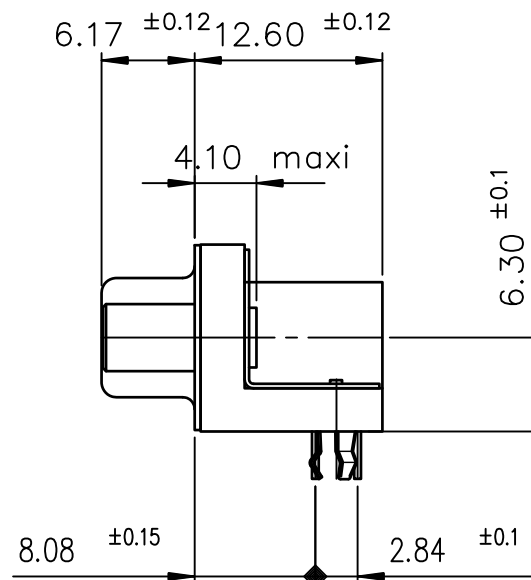
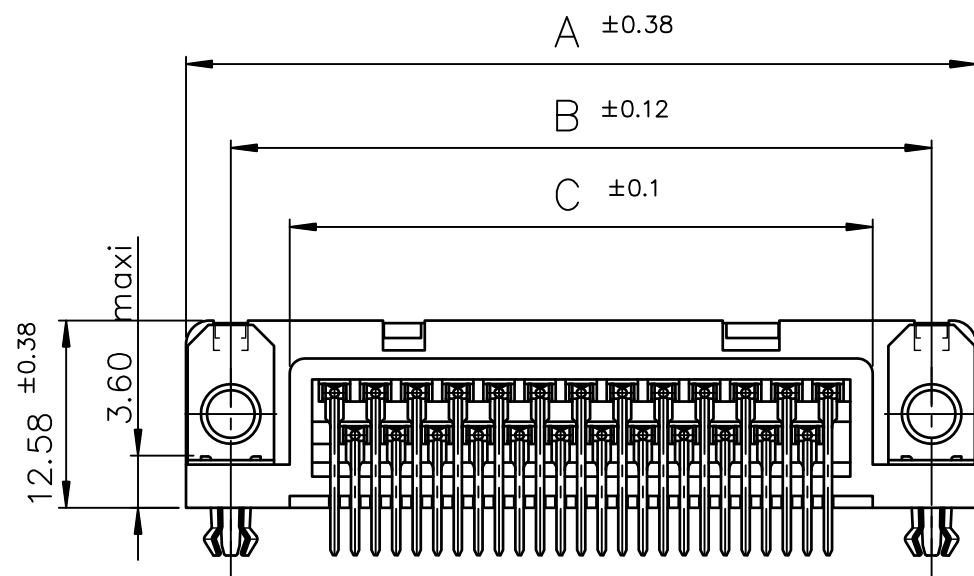
- CONTACT:
 - GOLD OVER NICKEL ON MATING SURFACES
 - TIN LEAD OVER NICKEL ON TERMINATION PARTS
- SHELL AND ACCESSORIES TIN LEAD OVER COPPER

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

A FCI www.fciconnect.com		surface ☒	tolerance	projection	
Dr	JOUBERT	30/11/00	Product family	-	size A3
Eng			Spec ref		Scale 1:1
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



SHELL	A±0.38	B±0.12	C±0.10	D±0.25	E±0.07	TIN LEAD PART NUMBER			
						Gold flash	0.76 µ gold		
09	30.81	24.99	16.96	16.21	10.96	D09S33E4GV00	D09S33E4GI00	D09S33E6GV00	D09S33E6GI00
15	39.14	33.32	25.18	24.54	19.18	D15S33E4GV00	D15S33E4GI00	D15S33E6GV00	D15S33E6GI00
25	53.03	47.04	39.12	38.25	33.12	D25S33E4GV00	D25S33E4GI00	D25S33E6GV00	D25S33E6GI00
37	69.32	63.50	55.68	54.71	49.68	D37S33E4GV00	D37S33E4GI00	D37S33E6GV00	D37S33E6GI00

Threaded ØT M3 = I
Threaded ØT 4.40 = V

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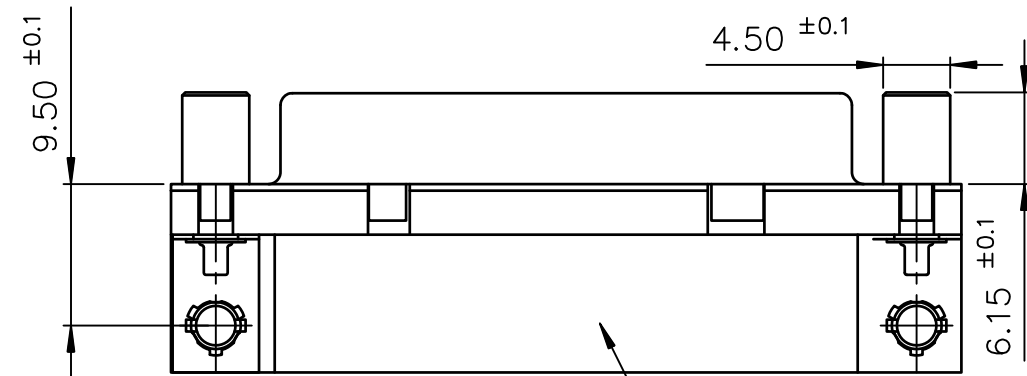
SHELL	A±0.38	B±0.12	C±0.10	D±0.25	E±0.07	LEAD FREE PART NUMBER			
						Gold flash	0.76 µ gold		
09	30.81	24.99	16.96	16.21	10.96	D09S33E4GV00LF	D09S33E4GI00LF	D09S33E6GV00LF	D09S33E6GI00LF
15	39.14	33.32	25.18	24.54	19.18	D15S33E4GV00LF	D15S33E4GI00LF	D15S33E6GV00LF	D15S33E6GI00LF
25	53.03	47.04	39.12	38.25	33.12	D25S33E4GV00LF	D25S33E4GI00LF	D25S33E6GV00LF	D25S33E6GI00LF
37	69.32	63.50	55.68	54.71	49.68	D37S33E4GV00LF	D37S33E4GI00LF	D37S33E6GV00LF	D37S33E6GI00LF

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GENERAL CHARACTERISTICS : SEE DRAWING C01-8646-0000

mat'l. code				surface	tolerance	projection	product family		
-				ISO 1302	ISO 406 ISO 1101		D-SUB		
ltr	ecn no	dr	date	tolerances unless otherwise specified			title		
D	ELX-I-19243	AB	2014-10-29	angles	linear		SOCKET CONNECT. DELTA-D R/A		
				0°±2°			SCREW LOCK, HARPOON & METAL PLATE		
				dr	JOHN SLEEBA	1993-04-07	FCI	dwg no	sheet 1 of 1
				engr	ALIAS BABU	2014-10-29		C01-8646-0824	A3
				chr	MITHUN PAUL	2014-10-29		type Product Customer Drawing	
				app	BIJU K PAUL	2014-10-29			
sheet index	revision	D							
	sheet	1							



Part Number & Date Code Printing

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

