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 = Ø0.99±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:DXXXXXCXXXXXXX		PERFORMANCE LEVELS
4	200 OPERATIONS	PL3
6	400 OPERATIONS	PL1

MECHANICAL ENDURANCE AND INDUSTRIAL ATMOSPHERE TEST(1)		
P/N: DXXXXXCXXXXXXX		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 11g

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

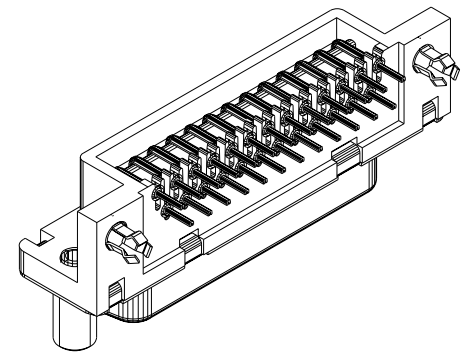
(2)INDUSTRIAL ATMOSPHERE TEST: 4 GASES available for contacts active area only

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

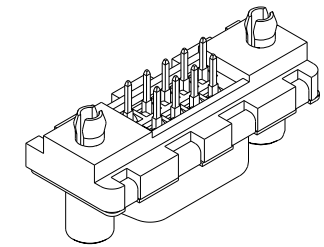
ENVIRONMENTAL CHARACTERISTICS

- 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 whistand 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 µ Sn (pure bright)
- Accessories: Sn pure bright
- Packaging spec: see GS-14-920

ltr	ecn no	dr	date
B	-	SJO	07/08/02
C	ES05-0039	EMA	26/01/05
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

www.fciconnect.com

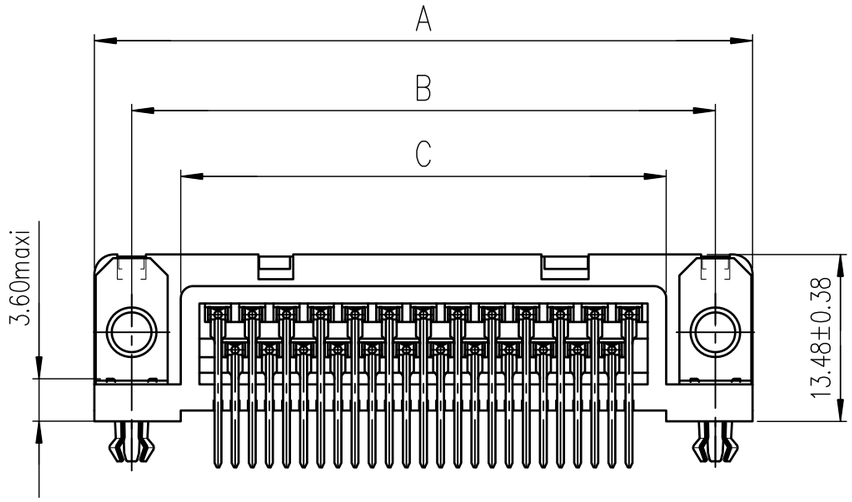
surface - tolerance - projection

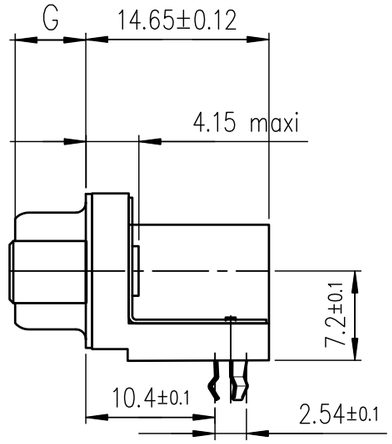
Dr	JOUBERT	30/11/00	Product family -	size A3 / Scale 1:1
Eng			Spec ref	
Chr			Material SEE NOTES	ECN LS05-0039
Appr	LEGARE	30/11/00		

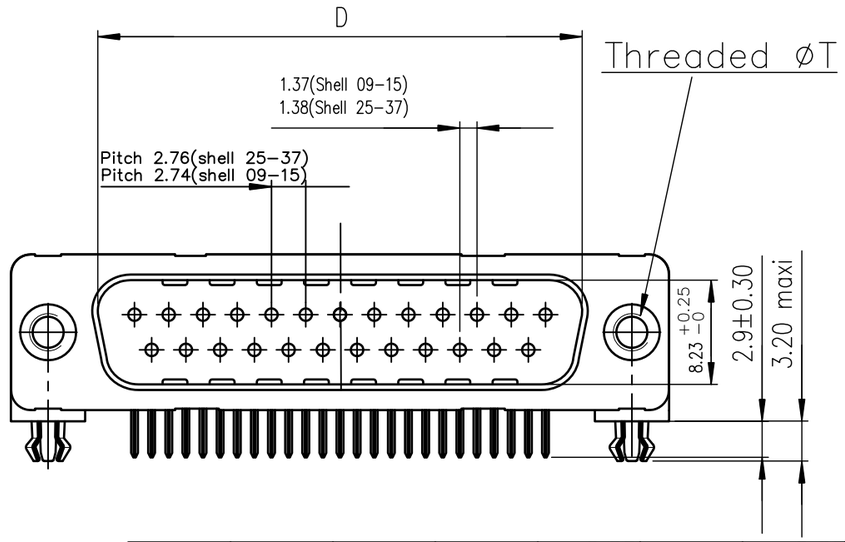
title: DELTA D SOLDER CTS CONNECTORS
GENERAL CHARACTERISTICS

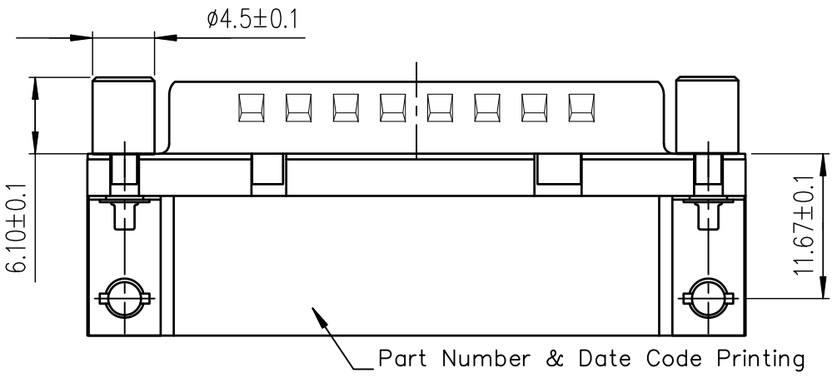
dwg no C01-8646-0000 Rev. C

catalog no - CUSTOMER COPY sheet 1 of 1









SHELL	A±0.38	B±0.12	C±0.10	D +0.25 -0	E±0.07	G +0.25 -0
09	30.81	24.99	16.96	16.79	10.96	5.90
15	39.14	33.32	25.18	25.12	19.18	5.90
25	53.03	47.04	39.12	38.84	33.12	5.70
37	69.32	63.50	55.68	55.30	49.68	5.70

GENERAL CHARACTERISTICS : SEE DWG.NO: C01-8646-0000

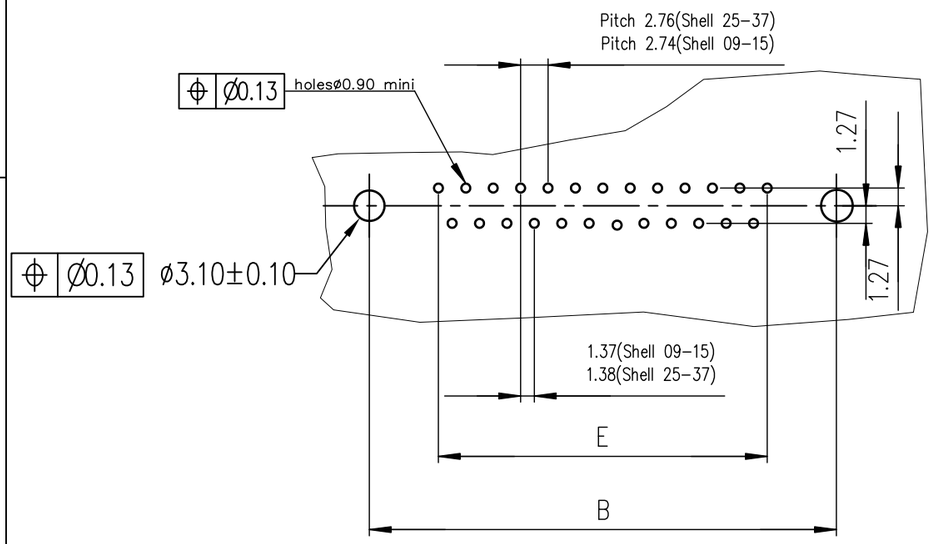
LF FOR LEAD FREE

SHELL	PART NUMBER	DESIGNATIONS
09	D09P13A*G*00**	HEADER 9 CTS RIGHT ANGLED-SOLDER TO BOARD-PCB HARPOON-SCREWLOCK -ELEC.CONTIN.
15	D15P13A*G*00**	HEADER 15 CTS RIGHT ANGLED-SOLDER TO BOARD-PCB HARPOON-SCREWLOCK -ELEC.CONTIN.
25	D25P13A*G*00**	HEADER 25 CTS RIGHT ANGLED-SOLDER TO BOARD-PCB HARPOON-SCREWLOCK -ELEC.CONTIN.
37	D37P13A*G*00**	HEADER 37 CTS RIGHT ANGLED-SOLDER TO BOARD-PCB HARPOON-SCREWLOCK -ELEC.CONTIN.

4 = Performance level PL3 ≥ 200 OPERATIONS
6 = Performance level PL1 ≥ 500 OPERATIONS

I =SCREWLOCK Threaded M3
V =SCREWLOCK Threaded UNC 4.40 sellers

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



mat'l. code				surface	tolerance		projection	product family
SEE.NOTES				ISO 1302 √	ISO 406 ISO 1101			DELTA-D
ltr	ecn no	dr	date	tolerances unless otherwise specified				title
D	I05-0124	JS	2005/07/27	angles	linear	0.X± 0.1	MM	MALE DELTA-D RIGHT ANGLED
E	I06-0074	SK	2006/06/08			0.XX± 0.1		
F	I09-0023	AS	2009/02/11	X±1°		0.XXX± 0.1	scale 1:1	WITH SCREW LOCK, HARPOON & METAL BRACKET
G	ELXI-I-15060	AB	2013/06/25	dr	GEORGE.V.J	2006/10/17		dwg no C01-8646-0742 sheet 1 of 1 size A3
–	–	–	–	engr	ALIAS.BABU	2013/06/25		
–	–	–	–	chr	MITHUN.PAUL	2013/06/25		type CUSTOMER Drawing
–	–	–	–	appd	BIJU.K.PAUL	2013/06/25		

sheet index	revision	G	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	sheet	1	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

form: A3