

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

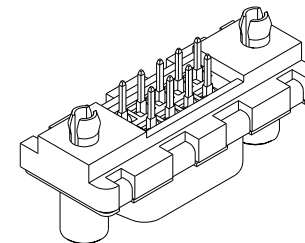
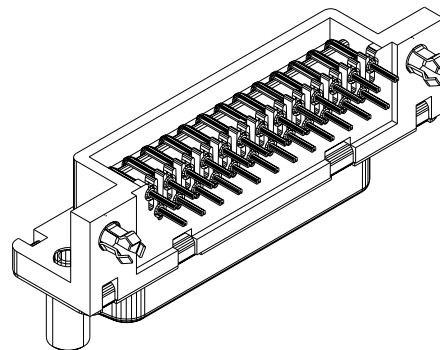
TEMPERATURE = 30±1°C / RELATIVE HUMIDITY= 70±2°C

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 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

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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

A 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												
title		DELTA D SOLDER CTS CONNECTORS						dwg no		C01-8646-0000			Rev C	
		GENERAL CHARACTERISTICS												
catalog no		-						CUSTOMER COPY				sheet 1 of 1		

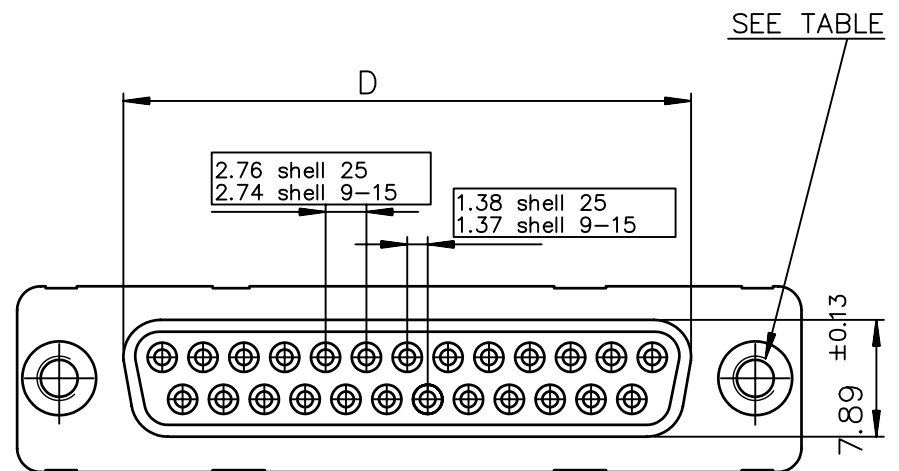
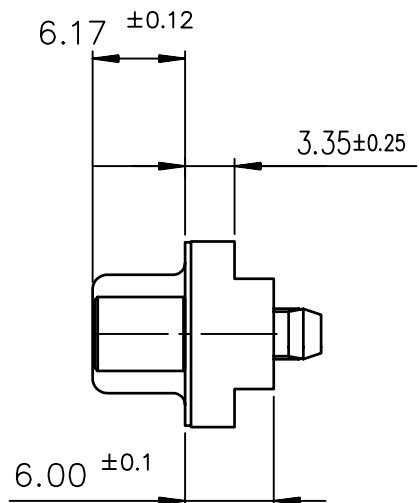
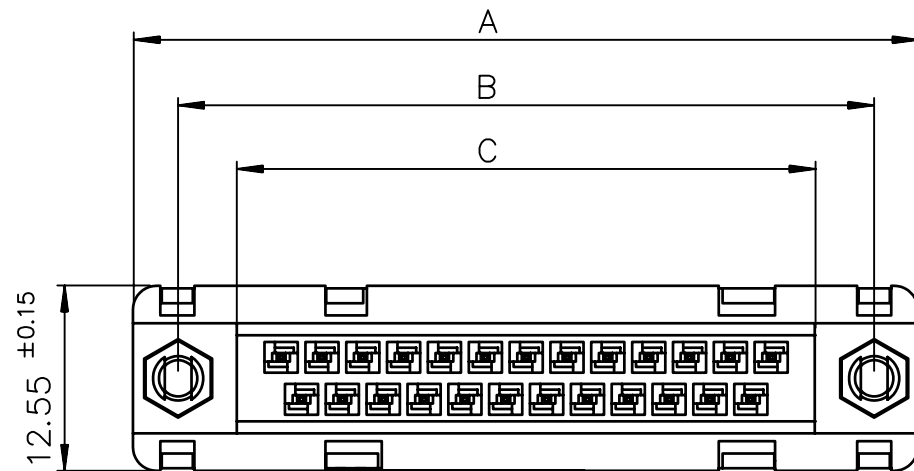
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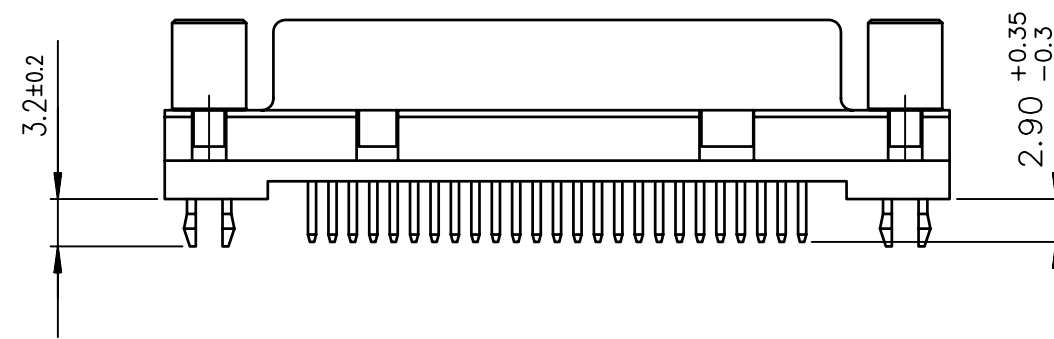
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4

A

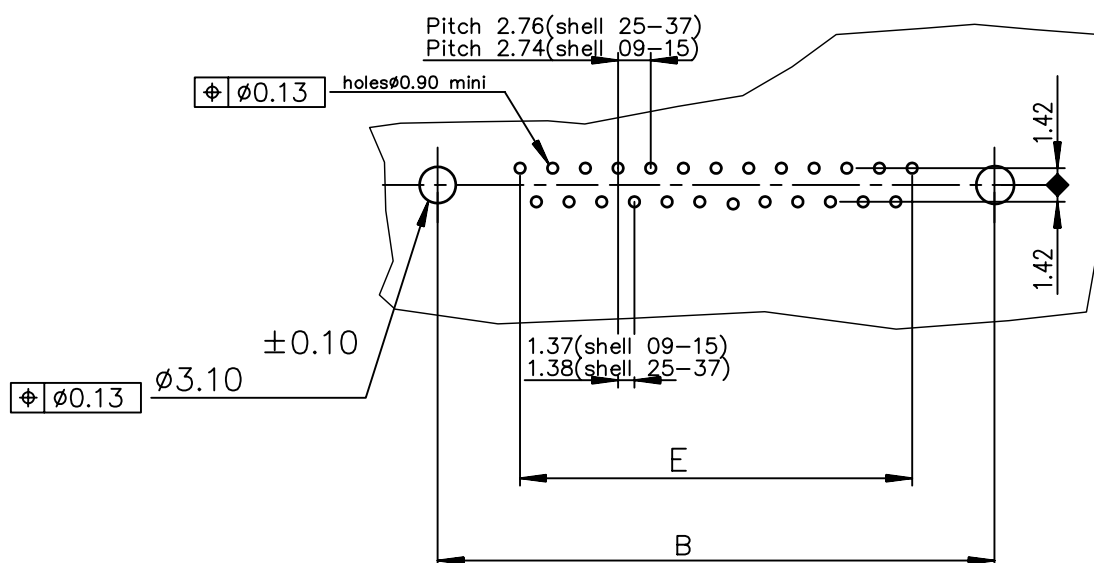


B



SHELL	A ± 0.38	B ± 0.12	C ± 0.10	D ± 0.25	E ± 0.07
09	30.81	24.99	16.96	16.21	10.96
15	39.14	33.32	25.18	24.54	19.18
25	53.03	47.04	39.12	38.25	33.12
37	69.32	63.50	55.68	54.71	49.68

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



SHELL	LEAD FREE PART NUMBER	TIN LEAD PART NUMBER	DESIGNATIONS
09	D09S24A6GV00LF	D09S24A6GV00	RECEPTACLE 9 CTS STRAIGHT-SOLDER TO BOARD-PCB HARPOON-SCREWLOCK -ELEC.CONTIN.
15	D15S24A6GV00LF	D15S24A6GV00	RECEPTACLE 15 CTS STRAIGHT-SOLDER TO BOARD-PCB HARPOON-SCREWLOCK -ELEC.CONTIN.
25	D25S24A6GV00LF	D25S24A6GV00	RECEPTACLE 25 CTS STRAIGHT-SOLDER TO BOARD-PCB HARPOON-SCREWLOCK -ELEC CONTIN.
37	D37S24A*GV00LF	D37S24A*GV00	RECEPTACLE 37 CTS STRAIGHT-SOLDER TO BOARD-PCB HARPOON-SCREWLOCK -ELEC.CONTIN.

V =SCREWLOCK Threaded UNC 4.40 sellers

4 = Performance level PL3 ≥ 200 OPERATIONS

6 = Performance level PL1 ≥ 500 OPERATIONS

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15	D15S24A*GI00LF	D15S24A*GI00	RECEPTACLE 15 CTS STRAIGHT-SOLDER TO BOARD-PCB HARPOON-SCREWLOCK -ELEC.CONTIN.
25	D25S24A*GI00LF	D25S24A*GI00	RECEPTACLE 25 CTS STRAIGHT-SOLDER TO BOARD-PCB HARPOON-SCREWLOCK -ELEC CONTIN.
37	D37S24A*GI00LF	D37S24A*GI00	RECEPTACLE 37 CTS STRAIGHT-SOLDER TO BOARD-PCB HARPOON-SCREWLOCK -ELEC.CONTIN.

I =SCREWLOCK Threaded M3

4 = Performance level PL3 ≥ 200 OPERATIONS

6 = Performance level PL1 ≥ 500 OPERATIONS

GENERAL CHARACTERISTICS AND ROHS INFORMATIONS:
SEE DRAWING C01-8646-0000

European Views

www.fciconnect.com				surface ISO 1302 ✓	tolerance std ISO 406 ISO 1101		projection mm	mm		
				TOLERANCES UNLESS OTHERWISE SPECIFIED						
Dr	JOUBERT	2000/12/21	ANGULAR	LINEAR	0.X	±0.1	size A3	Scale 2		
Eng	PESSON	2000/12/21			0.XX	±0.1				
Chr	NIRMAL GEORGE	2010-02-23	0.XX	±2	0.XXX	±0.1	ECN	I10-0059		
Appr	SUDHIR VARMA	2010-02-23	Product family			D-SUB	Spec ref -			
rev			ecn no	dr	date	title				Rev.
A			-	SJO	2000/12/21	RECEPTACLE STD EUROPE				
B			LS05-001	MPE	2005/03/14	STRAIGHT SOLDER TYPE FOR PCB 1.60mm				E
C			LS05-0056	LGO	2005/07/07	catalog no				
D			LS06-0097	LGO	2006/07/28					
E			I10-0059	NG	2010-02-23					
-			-	-	-					
-			-	-	-					
						dwg no		C01-8646-0815		
						CUSTOMER		sheet 1 of 1		

1

2

3

4

A

B

C

D



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