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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: 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

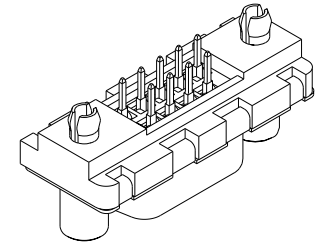
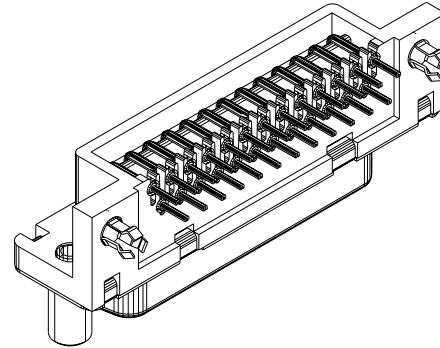
TEMPERATURE = 30±1°C / RELATIVE HUMIDITY= 70±2°C

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

		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	

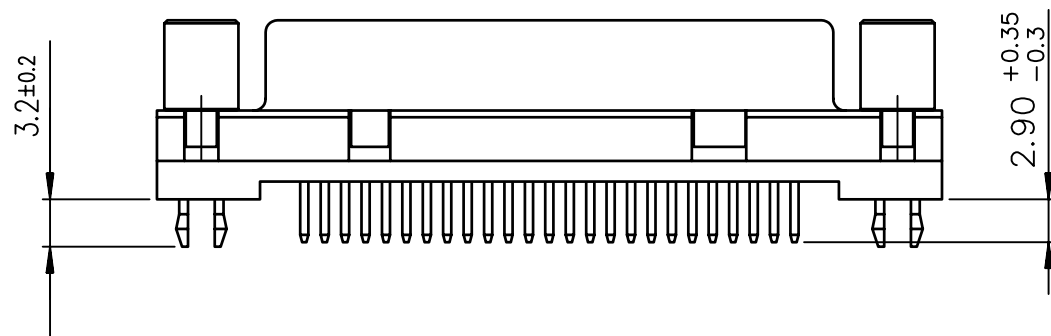
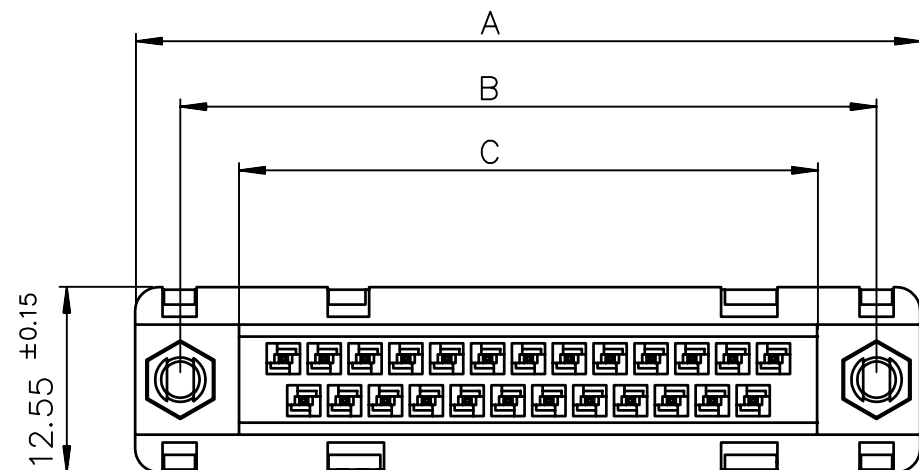
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E	ES05-0039	EMA	26/01/05
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A

B

C

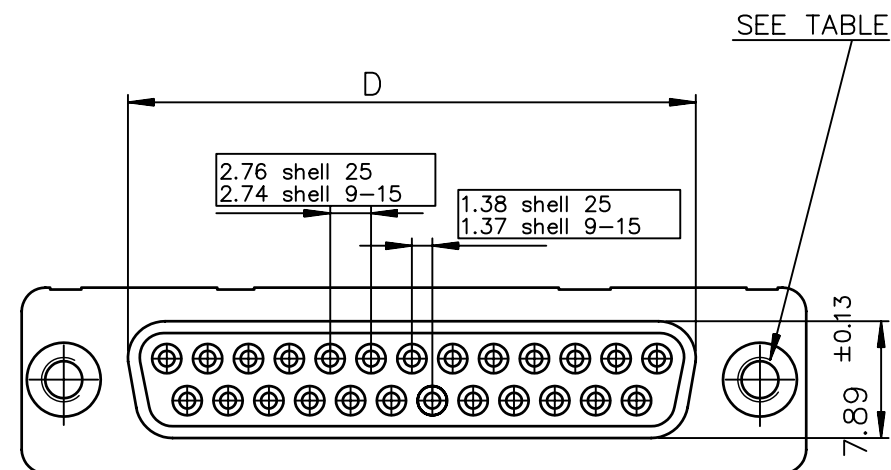
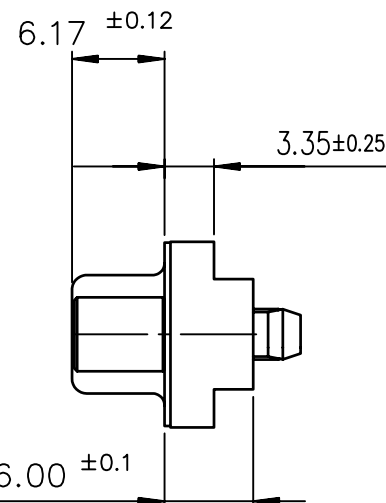
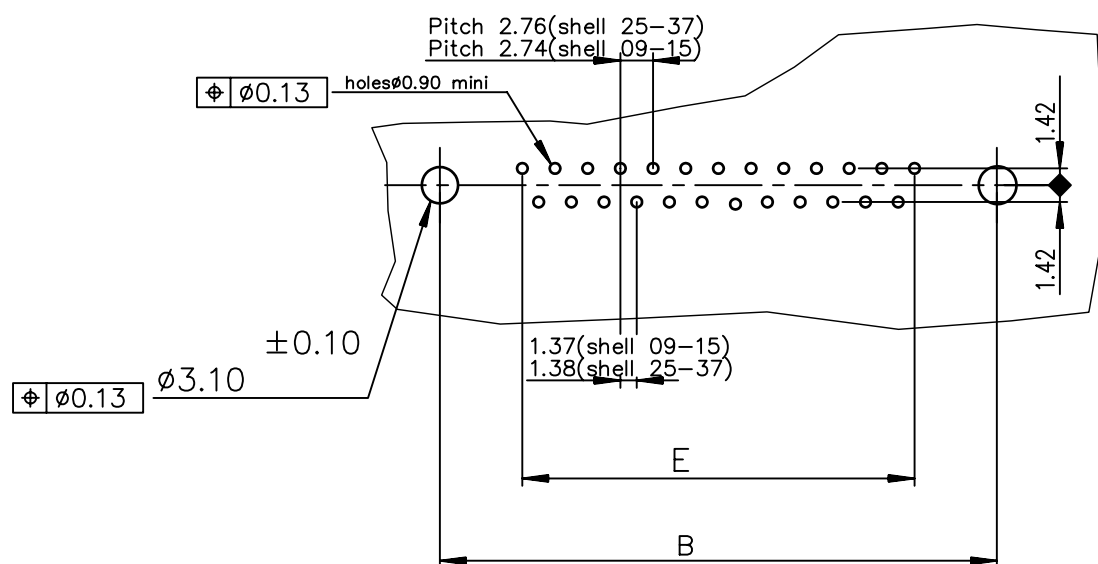
D



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

SHELL	LEAD FREE PART NUMBER	TIN LEAD PART NUMBER	DESIGNATIONS
09	D09S24A*GI00LF	D09S24A*GI00	RECEPTACLE 9 CTS STRAIGHT-SOLDER TO BOARD-PCB HARPOON-SCREWLOCK -ELEC.CONTIN.
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

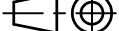
4 = Performance level PL3 ≥ 200 OPERATIONS

6 = Performance level PL1 ≥ 500 OPERATIONS

GENERAL CHARACTERISTICS AND ROHS INFORMATIONS:

SEE DRAWING C01-8646-0000

European Views

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