

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

0850132036

Status:

Active

Overview:

din_41612

Description:

2.54mm (.100") Pitch DIN 41612 Header, Through Hole, Vertical, Style R/2 Reverse, 1µm (40µ") Selective Gold (Au), 48 Circuits, Lead free

Documents:

3D Model

Drawing (PDF)

RoHS Certificate of Compliance (PDF)

Agency Certification	
CSA	LR19980
UL	E29179
General	
Product Family	Backplane Connectors
Series	85013
Application	Daughtercard
Comments	4 Day Industrial Environment (S02)
Component Type	PCB Header
Overview	din_41612
Product Name	IEC 603-2/DIN 41612
Style	R/2

Physical	
Circuits (Loaded)	48
Circuits (maximum)	48
Circuits Detail	Rows A, B, & C
Durability (mating cycles max)	500
First Mate / Last Break	No
Flammability	94V-0
Guide to Mating Part	No
Keying to Mating Part	Yes
Number of Columns	16
Number of Pairs	Open Pin Field
Number of Rows	3
Orientation	Vertical
PC Tail Length (in)	0.524 In
PC Tail Length (mm)	13.30 mm
PCB Locator	No
PCB Retention	Yes
Packaging Type	Bag
Pitch - Mating Interface (in)	0.100 In
Pitch - Mating Interface (mm)	2.54 mm
Pitch - Term. Interface (in)	0.100 In
Pitch - Term. Interface (mm)	2.54 mm
Plating min: Mating (µin)	39
Plating min: Mating (µm)	1
Polarized to PCB	No
Stackable	No
Surface Mount Compatible (SMC)	No
Temperature Range - Operating	-55°C to +125°C

Electrical	
Current - Maximum per Contact	1A
Data Rate	622.0 Mbps

EU RoHS

ELV and RoHS

Compliant

REACH SVHC

Not Reviewed

Halogen-Free

Status

Not Reviewed

China RoHS



Need more information on product environmental compliance?

Email productcompliance@molex.com
For a multiple part number RoHS Certificate of Compliance, [click here](#)

Please visit the [Contact Us](#) section for any non-product compliance questions.

Search Parts in this Series

85013Series

Mates With

85042 , 85052 Backplane Header

Real Signals (per 25mm)	30
Shield Type	N/A
Shielded	No
Voltage - Maximum	1000V (RMS)

Solder Process Data

Duration at Max. Process Temperature (seconds)	10
Lead-free Process Capability	Wave Capable (TH only)
Process Temperature max. C	260

Material Info

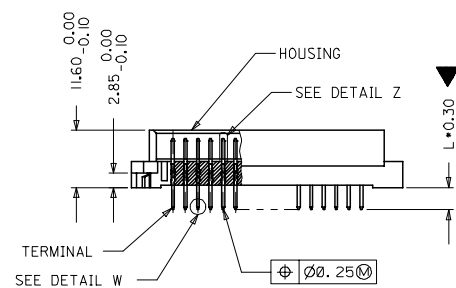
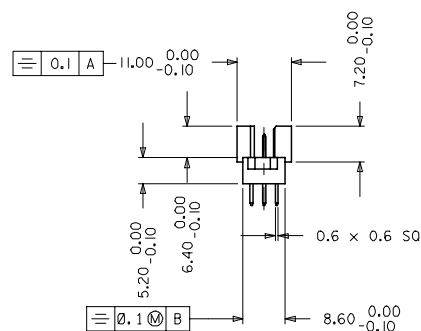
Reference - Drawing Numbers

Sales Drawing	E-85013-0002, E-85013-2036, SD-85013-2036, SDA-85013-0002, SDA-85013-2036
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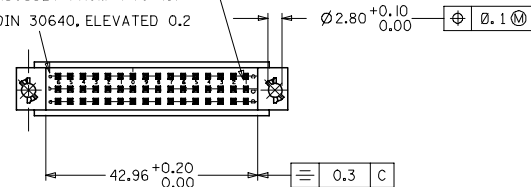
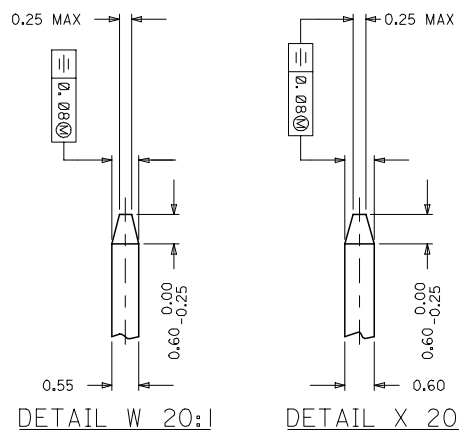
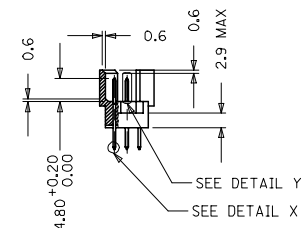
This document was generated on 05/17/2010

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1. MATERIAL NUMBER, BATCH CODE, UL CSA MARKING TO BE PRINTED ON THE CONNECTOR AS PER E-36502-005
2. PRODUCT SPECIFICATION PS:85013-001
3. PACKING SPECIFICATION PK: 36512-001
4. CUT FACES OF TIP WITHOUT PLATING IS PERMITTED
5. REFERENCE AREA OF PLATING
6. GAUGE DRAWING REFER E-36500-100

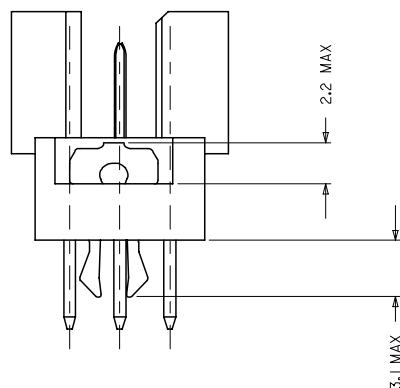


SCRIPT E1.5-6 DIN 30640, ELEVATED 0.2



tb_frame_A1_P_ME_T
Rev. D 2004/04/02

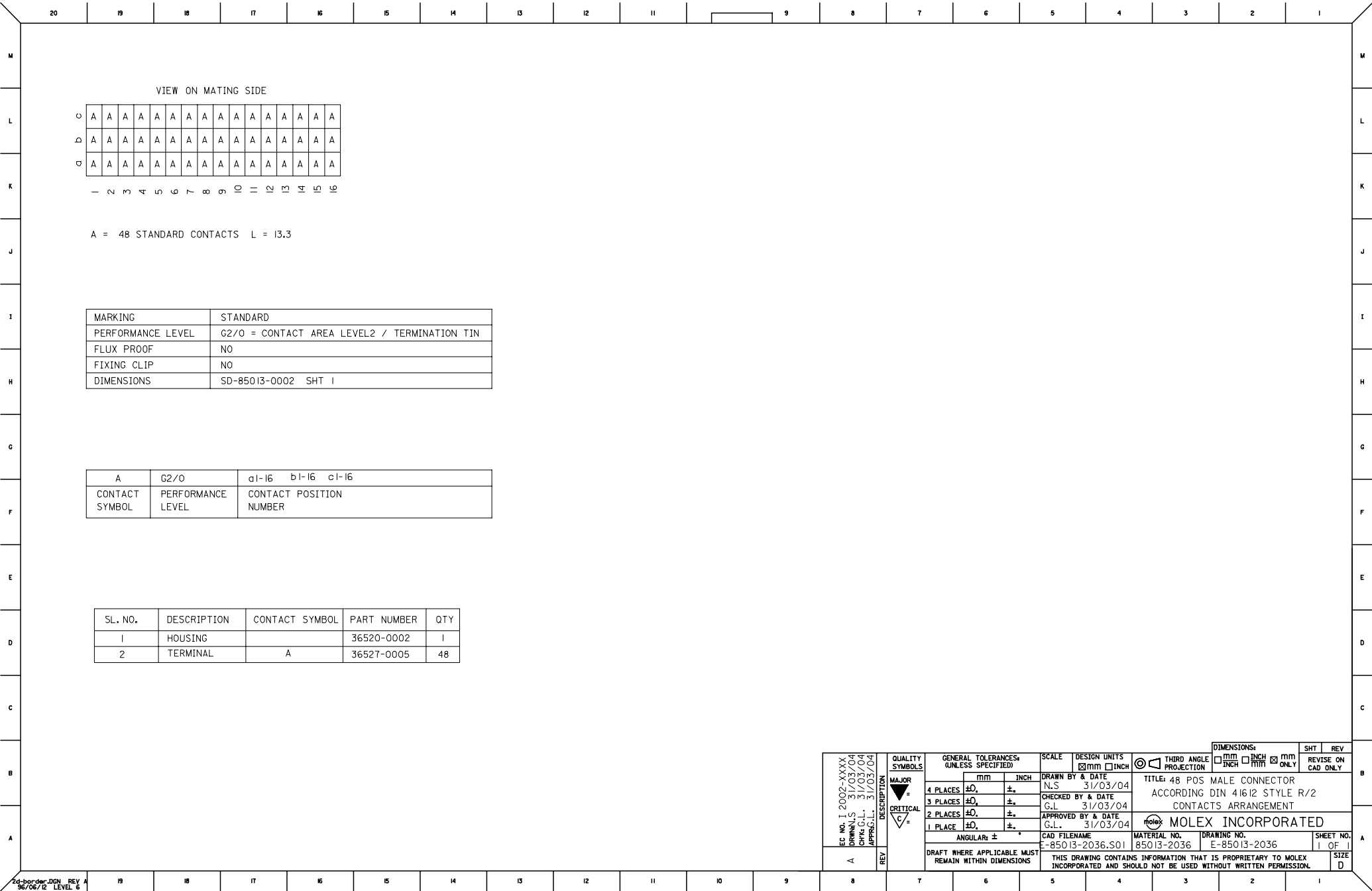
MALE CONNECTOR WITH MOUNTING CLIPS



DETAIL Y

A diagram of a beam with a central rectangular hole. The ends of the beam are filled with diagonal hatching. Two vertical white rectangular areas are shown within the hatched regions, representing the undeformed state of the beam.

tb_frame_A1_P_ME_T
Rev. D 2004/04/02



A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

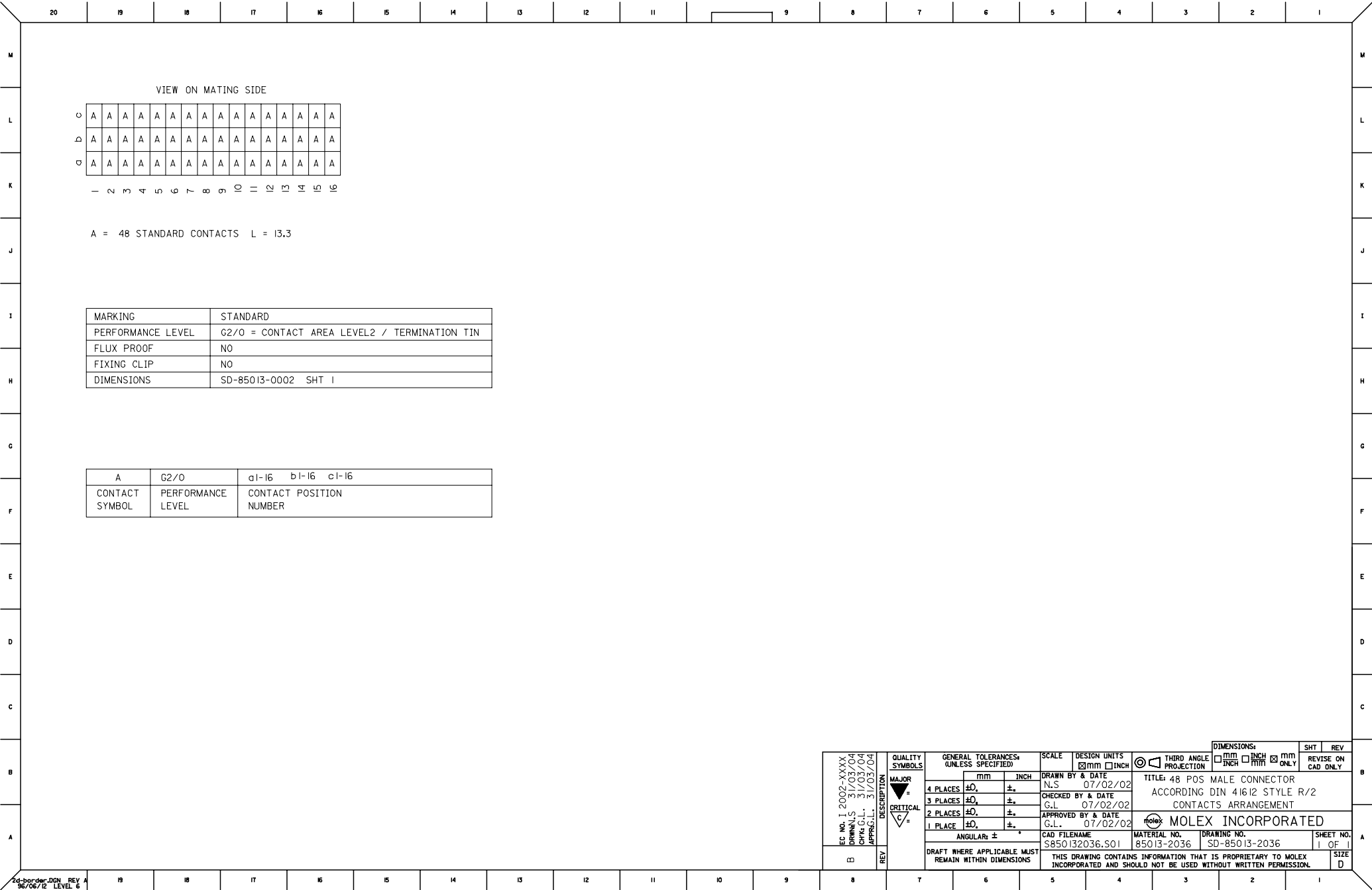
A = 48 STANDARD CONTACTS L = 13.3

MARKING	STANDARD
PERFORMANCE LEVEL	G2/O = CONTACT AREA LEVEL2 / TERMINATION TIN
FLUX PROOF	NO
FIXING CLIP	NO
DIMENSIONS	SD-85013-0002 SHT 1

A	G2/O	a1-16 b1-16 c1-16
CONTACT SYMBOL	PERFORMANCE LEVEL	CONTACT POSITION NUMBER

SL. NO.	DESCRIPTION	CONTACT SYMBOL	PART NUMBER	QTY
1	HOUSING		36520-0002	1
2	TERMINAL	A	36527-0005	48

EC NO. I 2002-XXXX DRAWN: S 31/03/04 CHK: G.L. 31/03/04 APPR: G.L. 31/03/04	QUALITY SYMBOLS MAJOR CRITICAL	GENERAL TOLERANCES: (UNLESS SPECIFIED)		SCALE	DESIGN UNITS ☒ mm ☐ INCH	THIRD ANGLE PROJECTION ☐ mm ☒ INCH	DIMENSIONS: ☐ mm ☐ INCH ☒ mm ONLY		SHT	REV	
		4 PLACES ± 0.1 $\pm$	mm	INCH	DRAWN BY & DATE NLS 31/03/04		TITLE: 48 POS MALE CONNECTOR ACCORDING DIN 41612 STYLE R/2 CONTACTS ARRANGEMENT		MATERIAL NO. 85013-2036	DRAWING NO. E-85013-2036	SHEET NO. 1 OF 1
		3 PLACES ± 0.1 $\pm$	mm	INCH	CHECKED BY & DATE G.L. 31/03/04		MOLEX INCORPORATED				
		2 PLACES ± 0.1 $\pm$	mm	INCH	APPROVED BY & DATE G.L. 31/03/04		CAD FILENAME E-85013-2036.S01				
A	REV	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION.							



VIEW ON MATING SIDE

Q	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
D	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Q	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	

A = 48 STANDARD CONTACTS L = 13.3

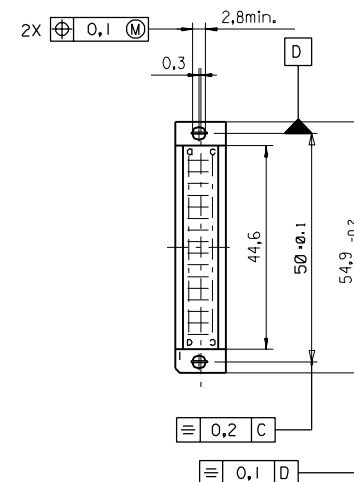
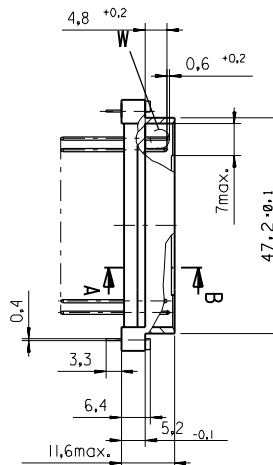
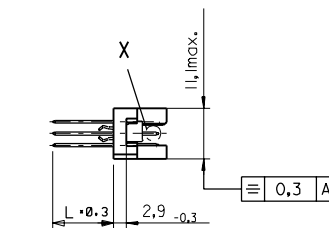
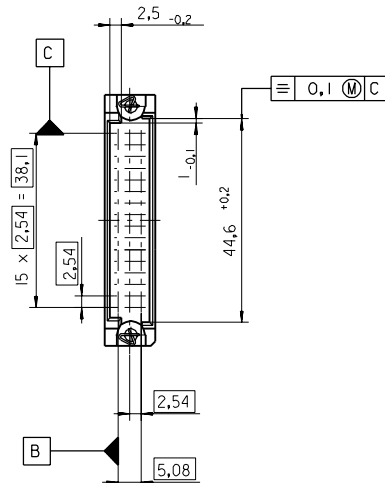
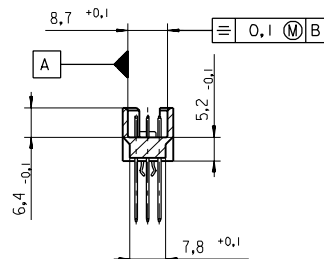
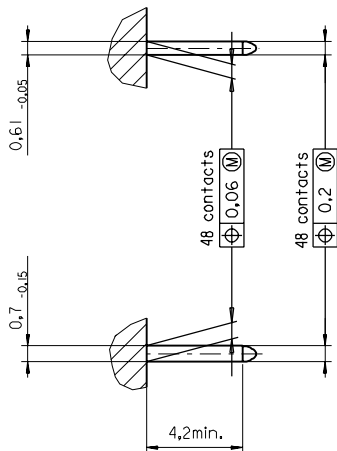
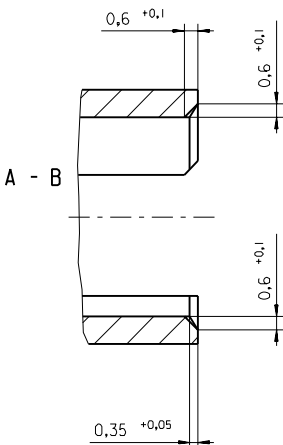
MARKING	STANDARD
PERFORMANCE LEVEL	G2/0 = CONTACT AREA LEVEL2 / TERMINATION TIN
FLUX PROOF	NO
FIXING CLIP	NO
DIMENSIONS	SD-85013-0002 SHT 1

A	G2/0	a1-16 b1-16 c1-16
CONTACT SYMBOL	PERFORMANCE LEVEL	CONTACT POSITION NUMBER

EC NO. I 2002-XXXX DRAWN: S 31/03/04 CHK: G.L. 31/03/04 APPR: G.L. 31/03/04		QUALITY SYMBOLS MAJOR CRITICAL	GENERAL TOLERANCES (UNLESS SPECIFIED)		SCALE	DESIGN UNITS		THIRD ANGLE PROJECTION	DIMENSIONS:		SHT	REV
			☐ mm ☒ INCH		☒ mm ☐ INCH	☐ mm ☒ INCH ONLY		REVISE ON CAD ONLY				
			DRAWN BY & DATE N.S 07/02/02		TITLE: 48 POS MALE CONNECTOR ACCORDING DIN 41612 STYLE R/2 CONTACTS ARRANGEMENT							
			CHECKED BY & DATE G.L. 07/02/02									
B		REV	APPROVED BY & DATE G.L. 07/02/02		CAD FILENAME S850132036.S01					MATERIAL NO. 85013-2036		DRAWING NO. SD-85013-2036
			ANGULAR ±		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION.				SIZE D

View X
5:1

View W
5:1



first release see ECN No. 1887		REVISIONS		FIRST ANGLE PROJECTION		REVISE ONLY ON CAD SYSTEM				SH. REV.			
		FOR PREVIOUS REVISIONS SEE URL LIST		UNLESS OTHERWISE SPECIFIED TOLERANCES: ANGULAR ±2°		CAD/CAM PROJECT NAME		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INC. & SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					
				INCH METRIC		85013000							
BI		LTR		3 PLACE ± . ±		Ca		TITLE 48 pos. Male connector acc. DIN 41612 style R/2 Dimensions		SHEET NO. 1 OF		DATE 95/06/08	
				2 PLACE ± . ±		CHK'D BY							
				1 PLACE ± . ±		KN							
				DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		APP'D BY		molex MOLEX EUROPE		DWG NO. SDA-85013-0002		SIZE B	
		DESIGN DIMENSION ☒ MM ☐ IN.		SCALE									
		EQUIVALENT DIMENSION ☐ MM ☐ IN.		IF TWO DIMENSIONS ARE SHOWN THE UPPER IS THE DESIGN DIMENSION, LOWER IS SECONDARY.									

View on mating side

C	A	A	A	A	A	A	A	A	A
D	A	A	A	A	A	A	A	A	A
O	A	A	A	A	A	A	A	A	A

1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
12	12
13	13
14	14
15	15
16	16

A = 48 standard contacts L=13,3

Marking	Standard
Performance level	G2/0 = Contact area perform. level2 / Termination tin
Flux proof	no
Fixing clip	no
Dimensions	SDA-85013-0002 sht.1
Technical Data	PS-85013-0001

A	G2/0	a1-l6	b1-l6	c1-l6
Contact symbol	Perform. level	Contact position number		

first release see ECN No. 1868	REVISIONS	FOR PREVIOUS REVISIONS SEE MRI LIST				UNLESS OTHERWISE SPECIFIED TOLERANCES: ANGULAR $\pm 2^\circ$ INCH METRIC	DRWG BY	SIGN	CAD/CAM PROJECT NAME	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INC. & SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION	REV.																	
		LTR	3 PLACE $\pm$.	2 PLACE $\pm$.	1 PLACE $\pm$.							TITLE	48 pos. Male connector acc. DIN 41612 style R/2 contacts arrangement	SHEET NO. 1 OF 1	DATE 95/06/07	SIZE A												
																	SCALE	CHK'D BY	KN	APP'D BY	SIGN	PART NO.	DWG NO.	85013-2036	SDA-85013-2036			
																										DESIGN DIMENSION	EQUIVALENT DIMENSION	IF TWO DIMENSIONS ARE SHOWN THE UPPER IS THE DESIGN DIMENSION, LOWER IS SECONDARY