

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: [0643202311](#)
Status: **Active**
Overview: [cmc_connectors](#)
Description: .635mm (.025"), 1.50mm (.059"), CMC Receptacle, 36 Circuits, Left Wire Output, Black Coding, Mat Sealed, Row 1 Closed

Documents:
[3D Model](#)
[Drawing \(PDF\)](#)

[Application Specification \(PDF\)](#)
[RoHS Certificate of Compliance \(PDF\)](#)

General

Product Family	Crimp Housings
Series	64320
Comments	* Current tested on a 5 terminals loaded connector, current for temperature increase of 40°C . Current max = 6.0A for 0.635mm Terminal (0.75mm² wire) and 12.0A for 1.5mm Terminal (2.0mm² wire) *
More Detailed Tech Information	Sealed, high-density, modular connecting system for Power Train and Body Electronics applications in cars, trucks, busses
Overview	cmc_connectors
Product Name	CMC

Physical

Circuits (maximum)	36
Circuits Detail	6 x 1.5mm, 30 x 0.635mm terminals
Color - Resin	Black
Gender	Female
Glow-Wire Compliant	No
Keying to Mating Part	Yes
Lock to Mating Part	Yes
Material - Resin	Polyester
Number of Rows	3
Packaging Type	Carton
Panel Mount	No
Pitch - Mating Interface (in)	0.100 In, 0.146 In
Pitch - Mating Interface (mm)	2.54 mm, 3.70 mm
Polarized to Mating Part	Yes
Stackable	No
Temperature Range - Operating	-40°C to +125°C

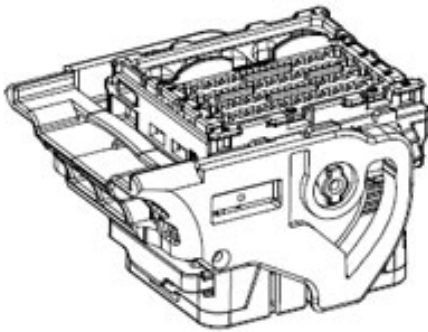
Electrical

Current - Maximum per Contact	12A, 6A
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Material Info

Reference - Drawing Numbers

Packaging Specification	PK-64320-001
Sales Drawing	SD-64320-003, SD-98644-006



Series

image - Reference only

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](#)

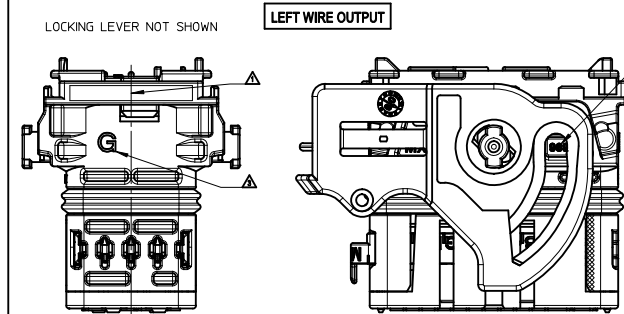
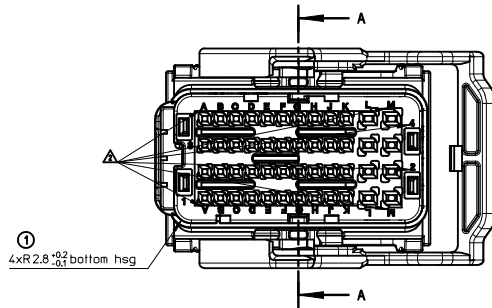
Please visit the [Contact Us](#) section for any non-product compliance questions.

Search Parts in this Series
[64320Series](#)

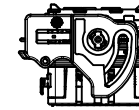
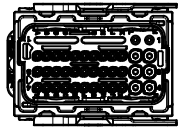
Mates With
[36638](#) CMC Header

Use With
CMC CP Female Terminal [64322](#) , [64323](#).
Circuit Way Plugs [643251010](#) , [643251023](#).
CMC Wire Cap [643201301](#). CMC 48 Circuit Header [36638](#)

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

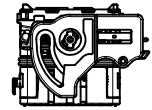


LINE N°1 CLOSED
YELLOW BACK GRID VERSION



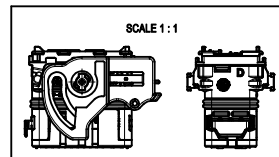
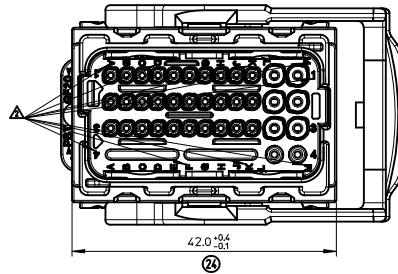
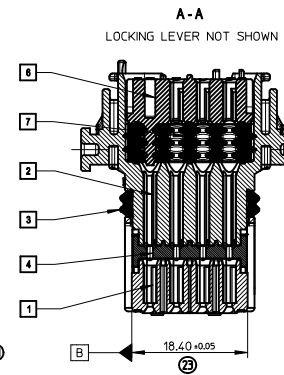
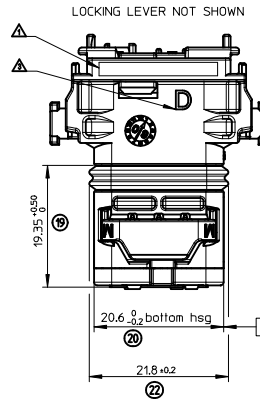
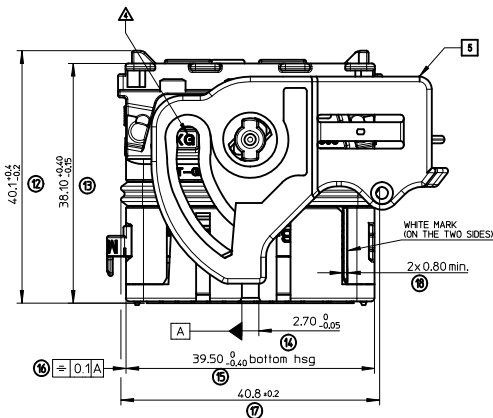
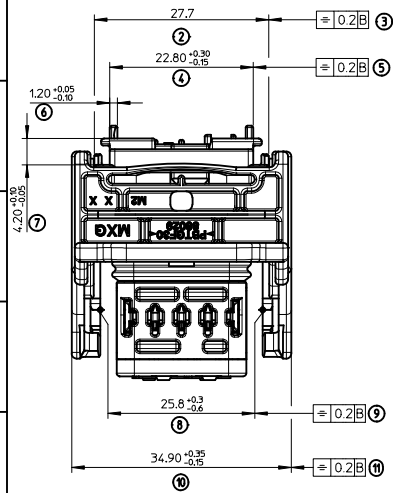
LEFT WIRE OUTPUT

MATERIAL NUMBER	COLOR
0643202311	BLACK
0643202319	BROWN



RIGHT WIRE OUTPUT

MATERIAL NUMBER	COLOR
0643204311	BLACK
0643204319	BROWN



NOTES:

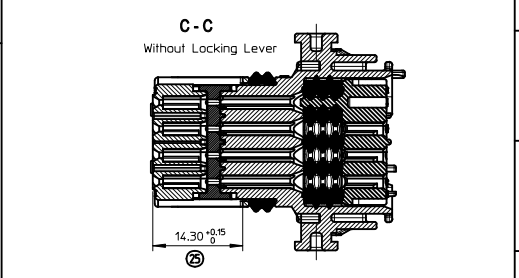
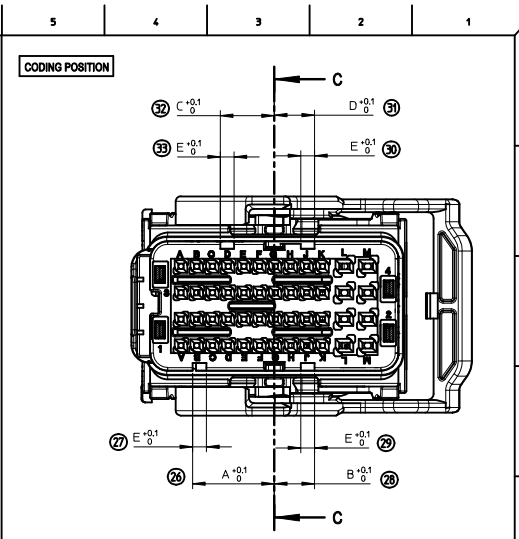
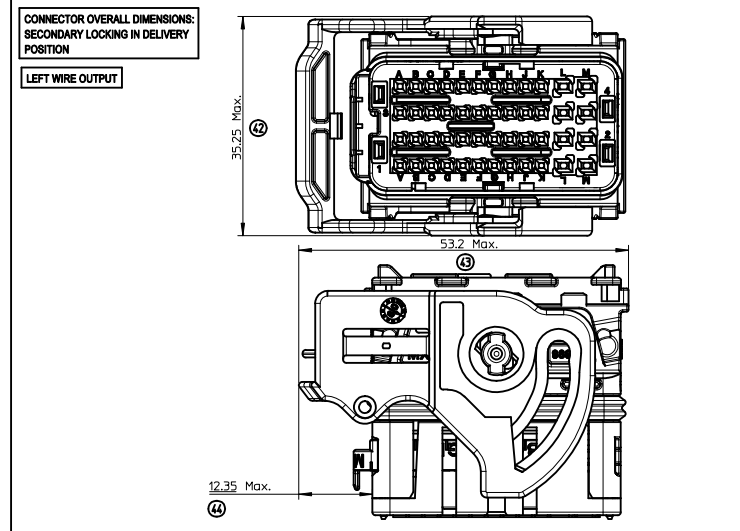
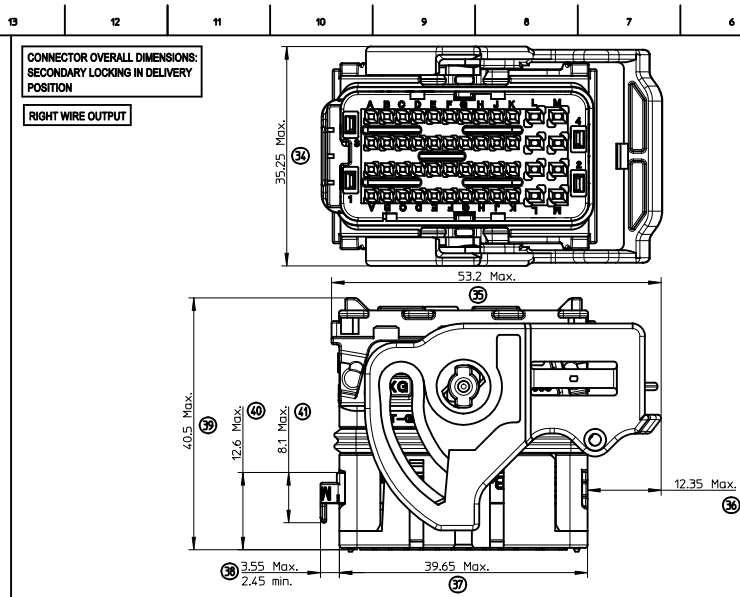
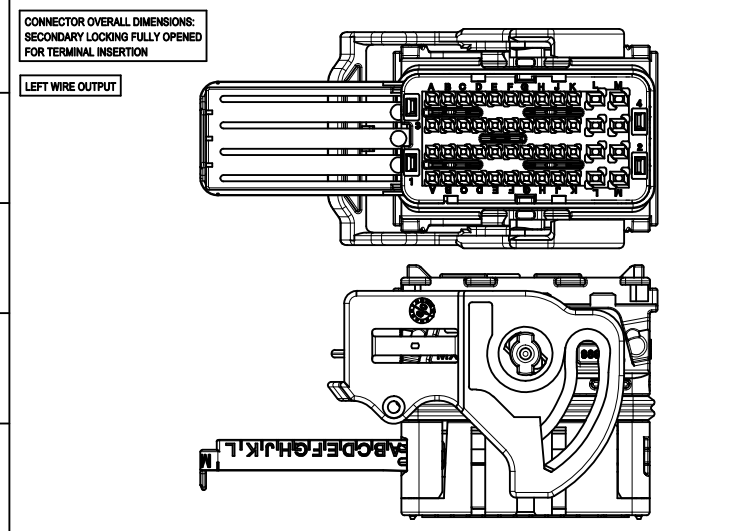
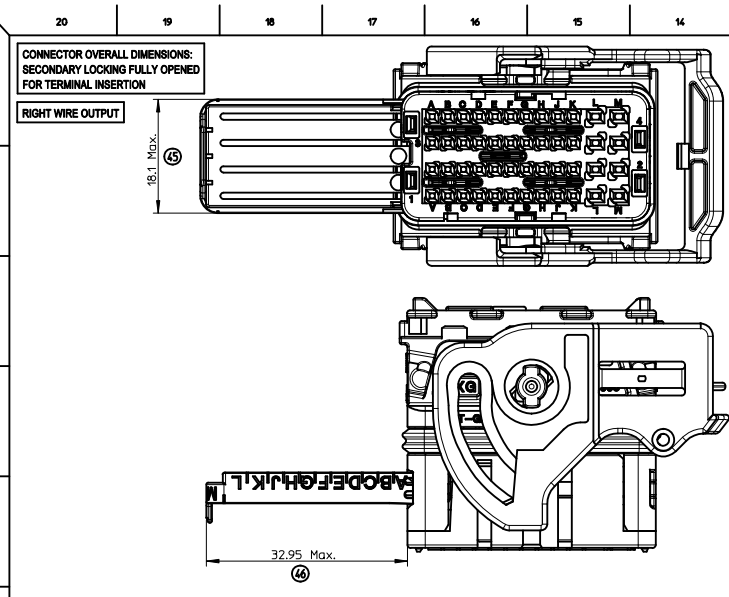
- 1-FOR ILLUSTRATION PURPOSE THE FEMALE HOUSING SHOWN IS: THE RIGHT WIRE OUTPUT VERSION CODING 1
- 2-APPLICATION SPECIFICATION: AS-64319-001
- 3-WIRES EXTERNAL DIAMETER USED: FOR CP0.6 TERMINAL: USED WIRES WITH AN EXTERNAL DIAMETER BETWEEN Ø1.25MM MIN AND Ø1.90MM MAX FOR CP1.5 TERMINAL: USED WIRES WITH AN EXTERNAL DIAMETER BETWEEN Ø1.40MM MIN AND Ø2.80MM MAX
- 4-THE CONNECTOR FITS WITH WIRE CAP (48 WAY) MOLEX P/N 0643201301
- 5-BLIND PLUG FOR 0.6 AND 1.5 CAVITIES (MOLEX P/N 0643251010 AND 0643251023) MUST BE USED ON THIS PART.
- 6-DELIVERED PRODUCT WEIGHT: 33.8 g

7	MAT SEAL	SILICON	BLUE
8	BACK GRID 36W	>PBT-GF20<	YELLOW
9	LOCKING LEVER 48W	>PBT-GF30<	BLACK
4	SECONDARY LOCK	>PBT-GF20<	GREY
3	PERIPHERAL SEAL 48W	SILICON	RED
2	BACK PART	>PBT-GF20<	BLACK
1	FRONT PART	>PBT-GF20<	BLACK
POS.	DESIGNATION	MATERIAL	COLOR LINKED TO KEYING

MARKINGS :

- ▲ - Assembled part traceability: Day + Year
- ▲ - Terminal cavities identification
- ▲ - Lever position indicator: 'G' LETTER VISIBLE = Part with 'LEVER ON THE RIGHT' 'G' LETTER VISIBLE = Part with 'LEVER ON THE LEFT'
- ▲ - Supplier identification
- ▲ - Material identification

UPDATED DRAWING EC NO: B DRAWING DESIGNED BY: 2009/06/03 CHKD: C. BOUCHAN APPR: REV	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)				DIMENSION STYLE MM ONLY		SCALE 2.5:1	DESIGN UNITS METRIC	 FIRST ANGLE PROJECTION	
		mm		INCH		DRAWN BY T. BADAROUX	DATE 2008/05/23	TITLE CMC CONNECTOR 36 WAY MAT SEAL VERSION			
		4 PLACES	± 0.1	± 0.004	± 0.004	CHECKED BY	DATE	MOLEX MOLEX INCORPORATED			
		3 PLACES	± 0.1	± 0.004	± 0.004	P. GRANDCLAUD	2008/05/23				
		2 PLACES	± 0.1	± 0.004	± 0.004	APPROVED BY	DATE				
		1 PLACE	± 0.1	± 0.004	± 0.004	C. BOUCHAN	2008/05/23				
		ANGULAR ± 0.2°				MATERIAL NO.		DOCUMENT NO.		SHEET NO.	
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				SEE SHEET 2		SD-64320-003		1 OF 2	
						SIZE A		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			



COLOR	KEYING	A	B	C	D	E
BLACK	1	13	6.4	8.6	6.4	2.2
GREY	2	10.8	8.6	13	8.6	2.2
BROWN	3	8.6	10.8	13	13	2.2
GREEN	4	10.8	13	6.4	6.4	2.2

TERMINALS USED				
CAVITY N°	FEMALE TERMINALS (Section mm2)	PLATING	MOLEX PIN°	min / MAX WIRE INSULATION DIAMETER (mm)
A1 to K1 A2 to K2 A3 to K3 A4 to K4	CP 0.6 0.35mm2	Tin plated	0643221019	Ø1.25 min / Ø1.40 Max
		Gold plated	0643221229	
	CP 0.6 0.5mm2	Tin plated	0643221039	Ø1.40 min / Ø1.70 Max
		Gold plated	0643221239	
L1 to L4 M1 to M4	CP 0.6 0.75mm2	Tin plated	0643221029	Ø1.60 min / Ø1.90 Max
		Gold plated	0643221219	
	CP 15 0.5mm2 to 1mm2	Tin plated	0643231029	Ø1.40 min / Ø2.15 Max
		Gold plated	0643231319	
	CP 15 >1mm2 to 2mm2	Tin plated	0643231039	Ø2.10 min / Ø2.80 Max
		Gold plated	0643231219	

UPDATED DRAWING
EC NO: 03
DRAWING: 06/03
CHKDC: BOUCHAN
APPR: [REDACTED]

DESCRIPTION: [REDACTED]

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± 0.1	± 0.004
3 PLACES	± 0.1	± 0.004
2 PLACES	± 0.1	± 0.004
1 PLACE	± 0.1	± 0.004

ANGULAR ± 2°

DRAFT WHERE APPLICABLE
MUST REMAIN
WITHIN DIMENSIONS

DIMENSION STYLE
MM ONLY

DRAWN BY: T. BADAROUX
CHECKED BY: P. GRANDCLAUD
APPROVED BY: C. BOUCHAN
DATE: 2008/05/23

SCALE: 2.5:1

DESIGN UNITS: METRIC

FIRST ANGLE PROJECTION

CMC CONNECTOR 36 WAY
MAT SEAL VERSION

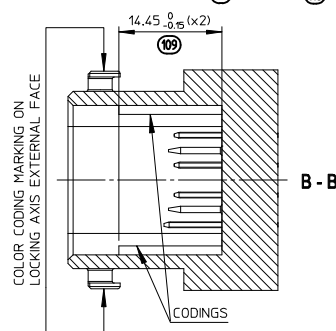
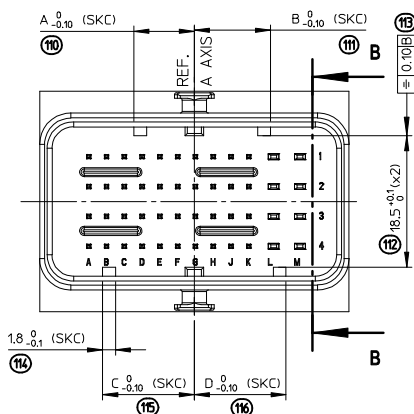
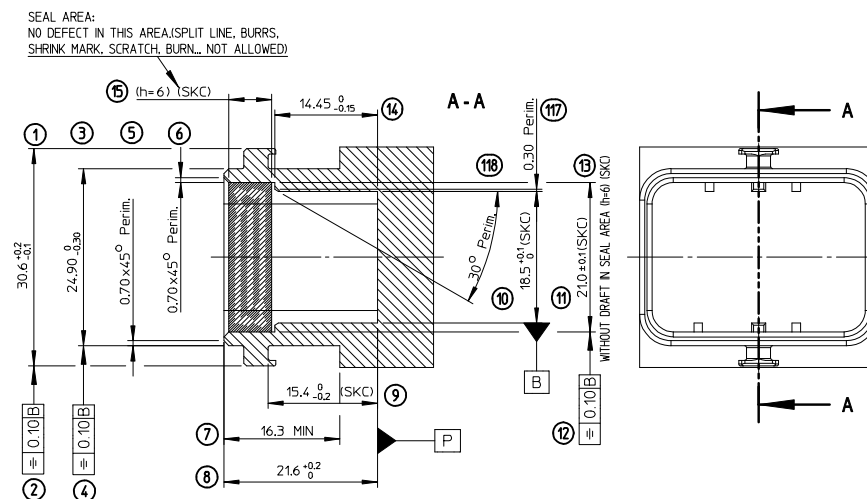
MOLEX INCORPORATED

DOCUMENT NO: SD-64320-003

SHEET NO: 2 OF 2

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX
INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

INTERFACES FOR HYBRID MODULES T2 (32 WAY) AND T3 (48 WAY)



(CODING 2 SHOWN)

HEADER'S CODINGS FOR MODULE T2 (32W)					
COLOR	CODINGS	DIM. A	DIM. B	DIM. C	DIM. D
BLACK	1	9.1	4.3	5.9	4.3
GREY	2	7.5	5.9	9.1	5.9
BROWN	3	5.9	7.5	9.1	9.1
GREEN	4	7.5	9.1	4.3	4.3
BLUE	5	4.3	7.5	5.9	5.9
YELLOW	6	9.1	7.5	4.3	7.5

(CODING 3 SHOWN)

HEADER'S CODINGS FOR MODULE T3 (48W)					
COLOR	CODINGS	DIM. A	DIM. B	DIM. C	DIM. D
BLACK	1	12.9	6.3	8.5	6.3
GREY	2	10.7	8.5	12.9	8.5
BROWN	3	8.5	10.7	12.9	12.9
GREEN	4	10.7	12.9	6.3	6.3
BLUE	5	6.3	10.7	8.5	8.5
YELLOW	6	12.9	10.7	6.3	10.7

(SKC)	SPECIAL KEY CHARACTERISTIC
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QUANTITY PER INDIVIDUAL SHEET

 $(SKC) = 20$

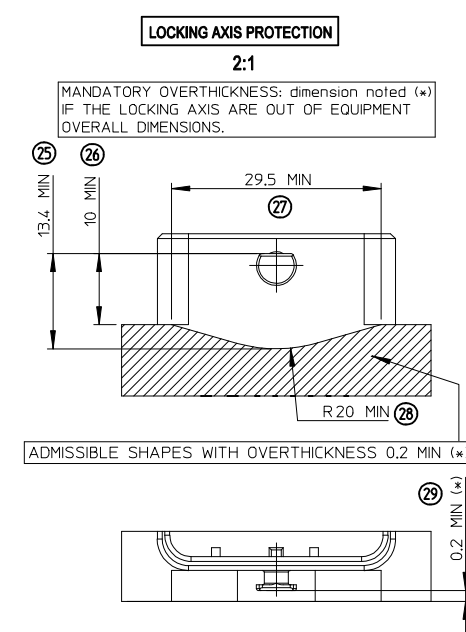
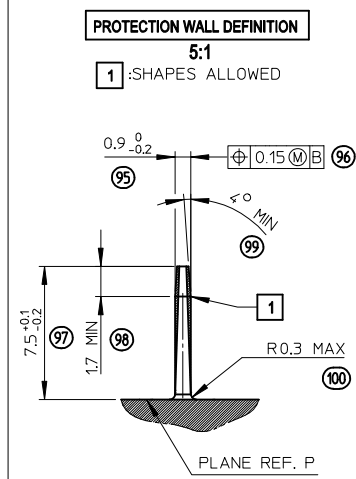
NOTE:

1- HEADER: ELASTICITY MODULUS: 8000Mpa min.
(INITIAL CONDITION BEFORE AGEING)

tb_frame_A2_P_AM_F
Rev. E 2006/04/15

REVISED	EC NO: G2009-0185	DRWN:GODESBRUERES	2008/12/10
		CHK'D: J. GIURIATO	2008/12/11
		APPR: OPLESSI,S	2008/12/15

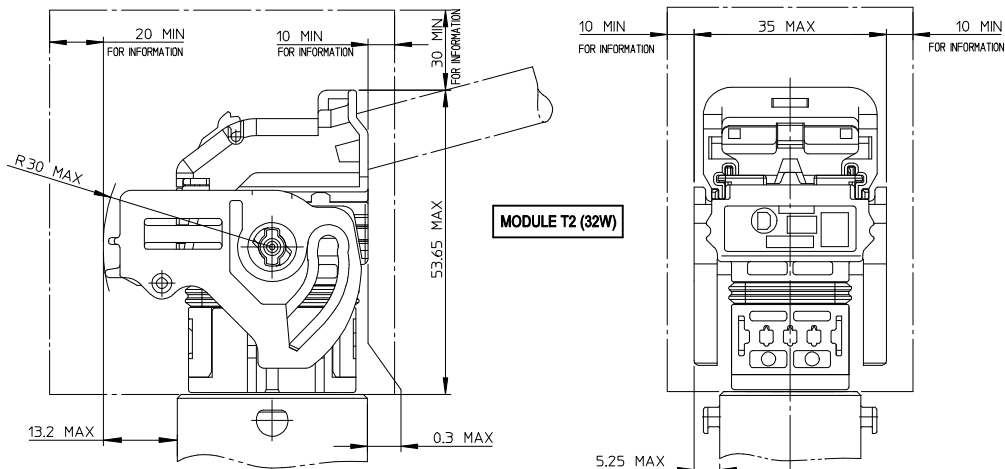
GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 2:1	DESIGN UNITS METRIC	 FIRST ANGLE PROJECTION
	mm INCH	DRAWN BY DATE		INTERFACES FOR MODULES 32 & 48 CKT CMC GENERIC SALES DRAWING  MOLEX INCORPORATED		
4 PLACES	± --- ± ---	G.DESBRUERES 2008/10/02				
3 PLACES	± --- ± ---	CHECKED BY DATE				
2 PLACES	± 0.10 ± ---	J.GIURIATO 2008/10/03				
1 PLACE	± 0.10 ± ---	APPROVED BY DATE				
ANGULAR ± 2 °		O.PLESSIS 2008/10/06				
		MATERIAL NO.		DOCUMENT NO.		SHEET NO.
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		N/A		SD-98644-006		1 OF 3
SIZE A2		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION				



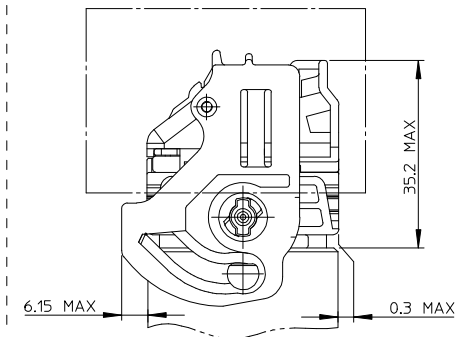
tb_frame_A2_P_AM_F Rev. E 2006/04/15	12	11	10	9	8	7	6	5	4	3	2	1
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CONNECTOR ON HEADER - OVERALL DIMENSIONS

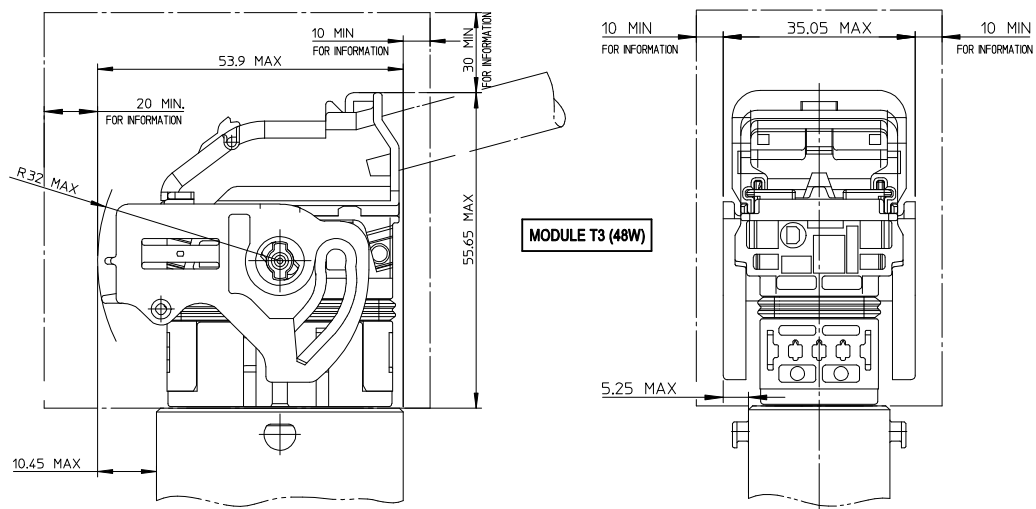
UNLOCKED CONNECTOR - OVERALL DIMENSIONS



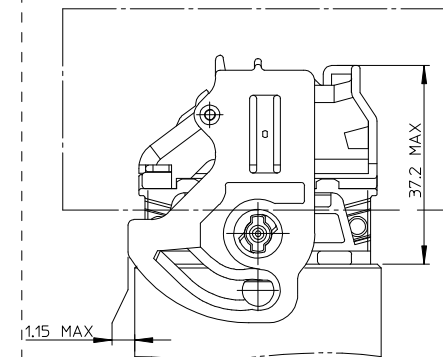
LOCKED CONNECTOR - OVERALL DIMENSIONS



UNLOCKED CONNECTOR - OVERALL DIMENSIONS

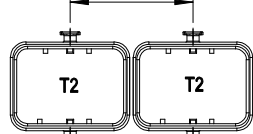


LOCKED CONNECTOR - OVERALL DIMENSIONS

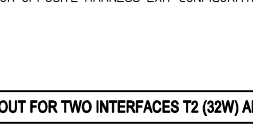


LAYOUT FOR TWO INTERFACES T2 (32W)

FOR SAME HARNESS EXIT CONFIGURATION
40.0 MIN

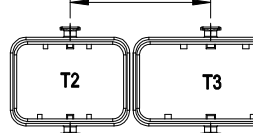


FOR OPPOSITE HARNESS EXIT CONFIGURATION
50.0 MIN



LAYOUT FOR TWO INTERFACES T2 (32W) AND T3 (48W)

FOR SAME HARNESS EXIT CONFIGURATION
39.5 MIN

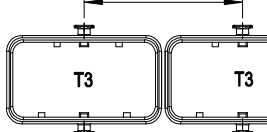


FOR OPPOSITE HARNESS EXIT CONFIGURATION
53.5 MIN



LAYOUT FOR TWO INTERFACES T3 (48W)

FOR SAME HARNESS EXIT CONFIGURATION
44.5 MIN



FOR OPPOSITE HARNESS EXIT CONFIGURATION
53.5 MIN



MULTI-HEADERS LAYOUT

LEGEND:



FREE VOLUME FOR MANUAL LOCKING AND UNLOCKING
DIMENSIONS GIVEN FOR INFORMATION ONLY TO BE
CONFIRMED BASED UPON VEHICLE CONFIGURATION.

(SKC) SPECIAL KEY CHARACTERISTIC

QUANTITY PER INDIVIDUAL SHEET

(SKC) = 0

NOTE:

1- T2 = 32 WAY / T3 = 48 WAY

REVISED

ELC NO: G2009-0185
DRAWN: G. DESBRUERES 2008/12/10
CHKD: J. GIURIATO 2008/12/11
APPR: O. PLESSIS 2008/12/15

DESCRIPTION

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± 0.10	± 0.004
3 PLACES	± 0.15	± 0.006
2 PLACES	± 0.20	± 0.008
1 PLACE	± 0.30	± 0.012
ANGULAR	± 2 °	

DRAFT WHERE APPLICABLE
MUST REMAIN
WITHIN DIMENSIONS

DIMENSION STYLE

MM ONLY

DRAWN BY	DATE
G. DESBRUERES	2008/10/02
CHECKED BY	DATE
J. GIURIATO	2008/10/03
APPROVED BY	DATE
O. PLESSIS	2008/10/06
MATERIAL NO.	
N/A	

SIZE
A2

SCALE

1:1

DESIGN UNITS

METRIC

FIRST ANGLE PROJECTION

INTERFACES FOR MODULES
32 & 48 CKT CMC
GENERIC SALES DRAWING

MOLEX INCORPORATED

DOCUMENT NO. SD-98644-006

SHEET NO.
3 OF 3

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