

**PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION**

**Part Number:** [0643192211](#)  
**Status:** **Active**  
**Overview:** [cmc connectors](#)  
**Description:** .635mm (.025"), 1.50mm (.059"), CMC Receptacle, 24 Circuits, Left Wire Output, Black Coding, Mat Sealed, Row 1 Closed

**Documents:**

[3D Model](#) [Application Specification \(PDF\)](#)  
[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)

**General**

Product Family	Crimp Housings
Series	<a href="#">64319</a>
Comments	* Current tested on a 5 terminals loaded connector, current for temperature increase of 40°C . Current max = 6.0A for 0.635mm Terminal (0.75mm <sup>2</sup> wire) and 12.0A for 1.5mm Terminal (2.0mm <sup>2</sup> wire) *
More Detailed Tech Information	Sealed, high-density, modular connecting system for Power Train and Body Electronics applications in cars, trucks, busses
Overview	<a href="#">cmc connectors</a>
Product Name	CMC

**Physical**

Circuits (maximum)	24
Circuits Detail	6 x 1.5mm, 18 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

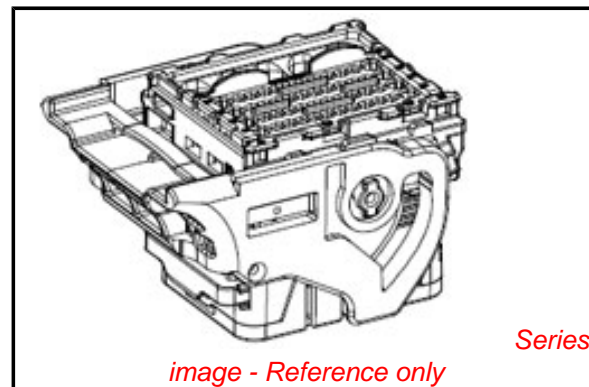
**Electrical**

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

**Reference - Drawing Numbers**

Packaging Specification	PK-64319-001
Sales Drawing	SD-64319-003, SD-98644-006



**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](mailto: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**

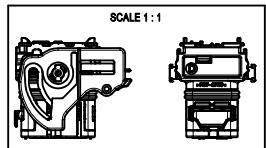
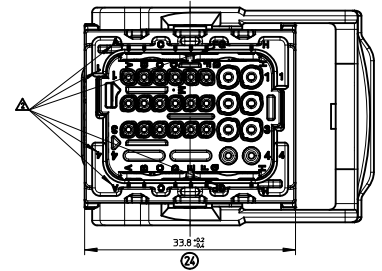
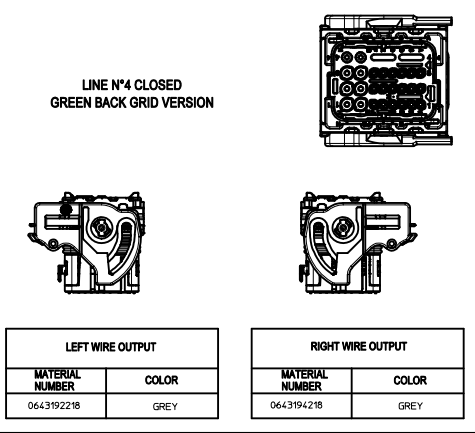
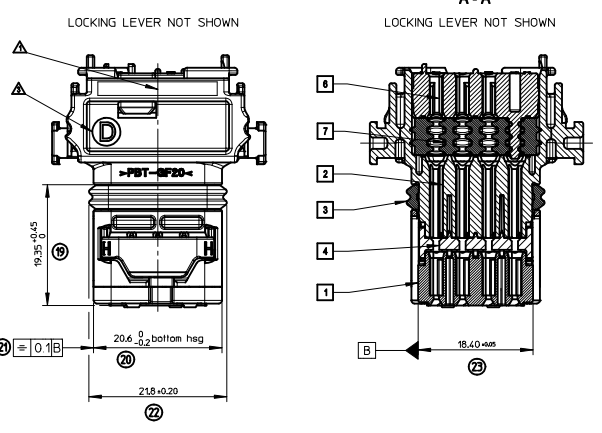
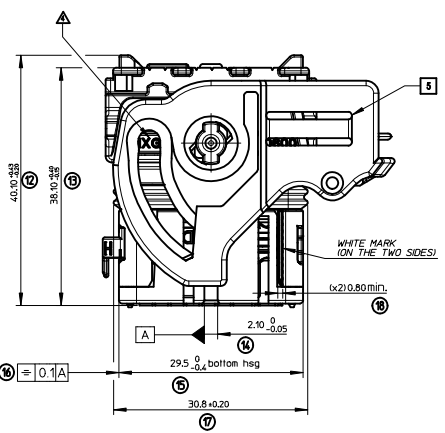
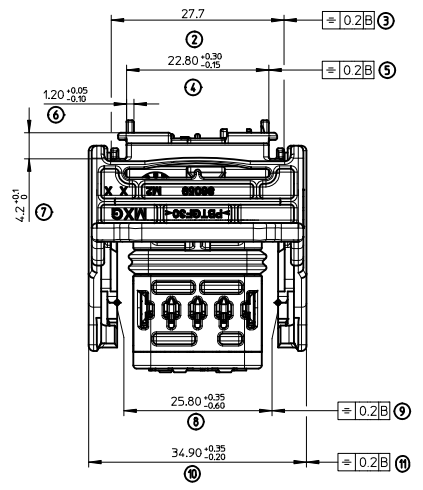
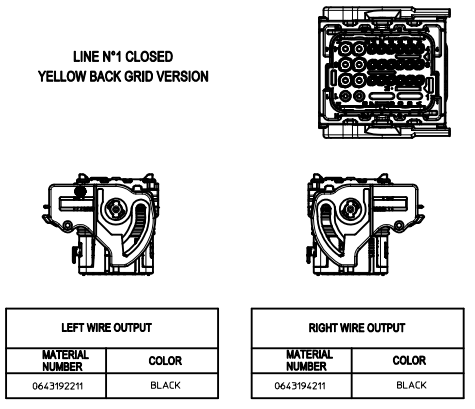
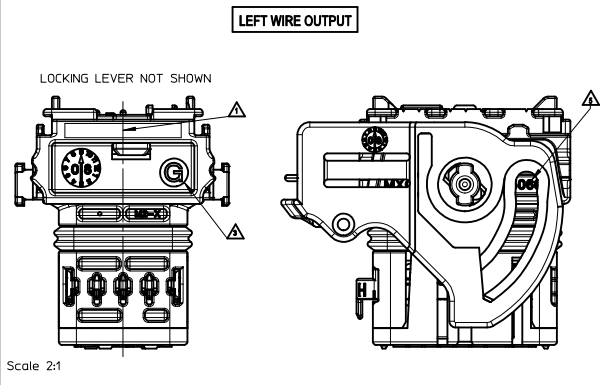
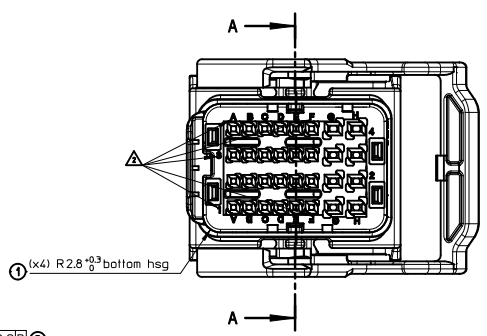
[64319Series](#)

**Mates With**

Single 32 Circuit CMC Header - Please Contact Molex

**Use With**

CMC CP Terminals [64322](#) , [64323](#). CMC Wire Cap [643191201](#). Sealing Plugs [643251010](#) , [643251023](#)



**NOTES:**

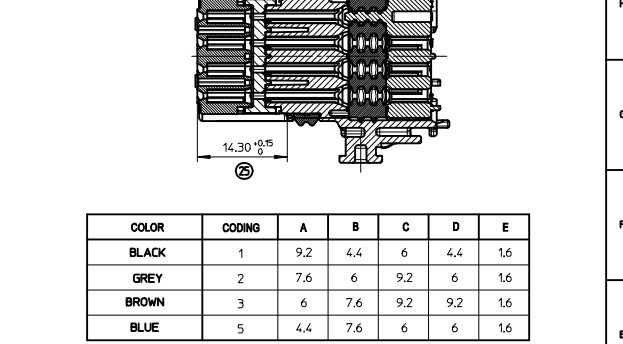
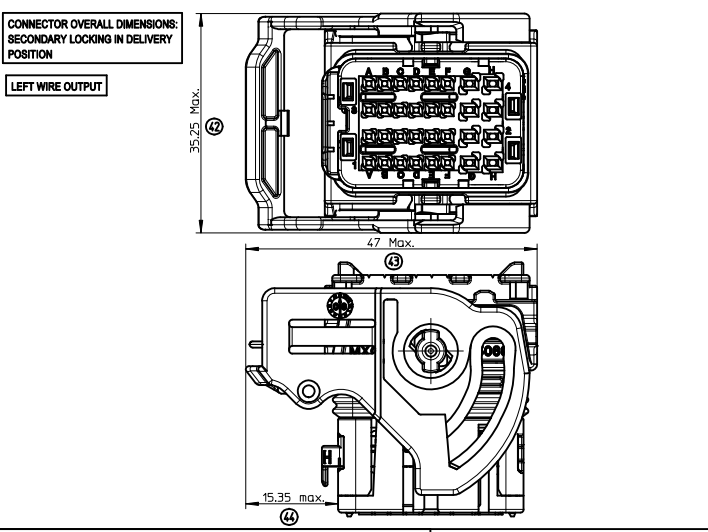
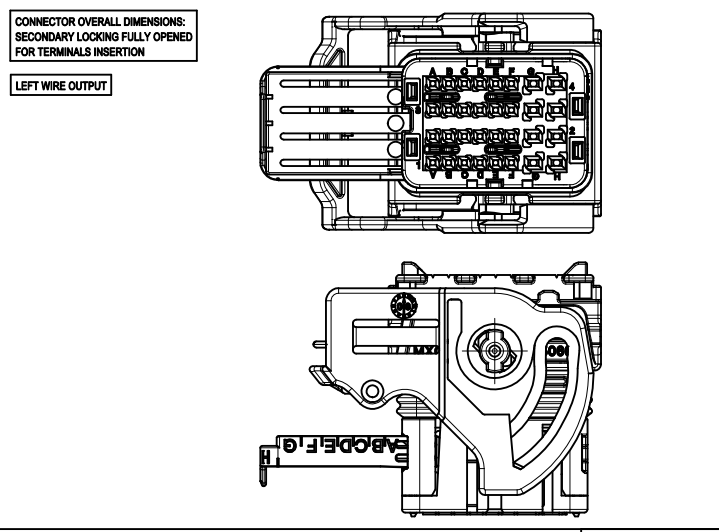
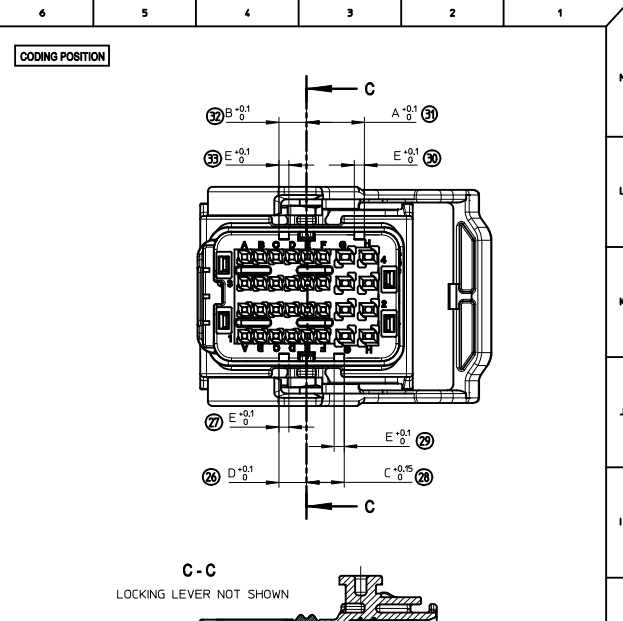
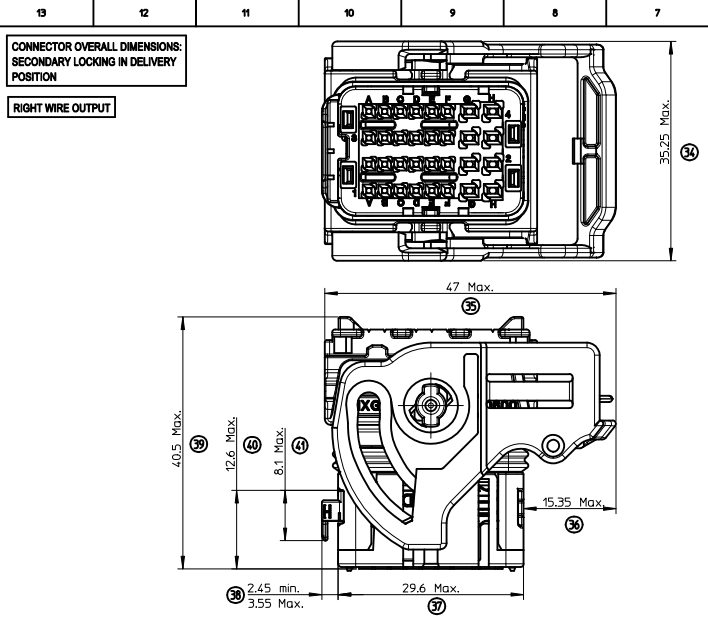
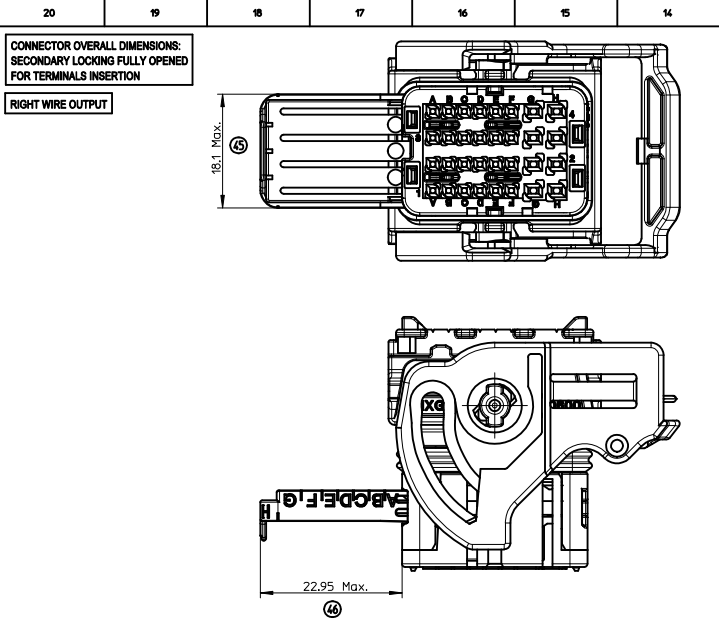
- 1-FOR ILLUSTRATION PURPOSE THE FEMALE HOUSING VERSION IS THE RIGHT WIRE OUTPUT VERSION CODING 1
- 2-APPLICATION SPECIFICATION: AS-64319-001
- 3-WIRES EXTERNAL DIAMETER USED: FOR CP0.6 TERMINAL: USE WIRES WITH AN EXTERNAL DIAMETER BETWEEN Ø1.25MM MIN AND Ø1.90MM MAX FOR CP1.5 TERMINAL: USE WIRES WITH AN EXTERNAL DIAMETER BETWEEN Ø1.00MM MIN AND Ø2.80MM MAX
- 4-THE CONNECTOR FITS WITH WIRE CAP (32 WAY) MOLEX P/N 0643191201
- 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: 27.6 g

7	MAT SEAL	Silicon	GREEN
8	BACK GRID 24W	>PBT-GF20<	COLOR LINKED TO LINE CLOSED
9	LOCKING LEVER 32W	>PBT-GF30<	BLACK
4	SECONDARY LOCK	>PBT-GF20<	GREEN
5	PERIPHERAL SEAL 32W	Silicon	BLUE
2	BACK PART	>PBT-GF20<	BLACK
1	FRONT PART	>PBT-GF20<	COLOR LINKED TO KEYING
POS.	DESIGNATION	MATERIAL	COLOR

**MARKINGS:**

- ▲ - Assembled part Iracability: Day + Year
- ▲ - Terminal cavities identification
- ▲ - Lever position indicator: "D" 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: 009106/04 DRIVINGESBRIERRES, 2009/06/04 CHIKDIE-BOUCHAN APPR:	GENERAL TOLERANCES (UNLESS SPECIFIED) mm INCH 4 PLACES ± --- ± --- 3 PLACES ± --- ± --- 2 PLACES ± 0.1 ± --- 1 PLACE ± 0.1 ± --- ANGULAR ± 2 °	DIMENSION STYLE MM ONLY	SCALE 2.5:1	DESIGN UNITS METRIC	FIRST ANGLE PROJECTION
		DRAWN BY T. BADAROUX 2008/05/23	DATE 2008/05/23	CHECKED BY P. GRANDCLAUD 2008/05/23	DATE 2008/05/23
APPROVED BY C. BOUCHAN 2008/05/23		DATE 2008/05/23		MOLEX INCORPORATED	
MATERIAL NO. SD-64319-003		DOCUMENT NO. SD-64319-003		SHEET NO. 1 OF 2	
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					



**TERMINALS USED**

CAVITY #	FEMALE TERMINALS (Section mm2)	PLATING	MOLEX P/N	min / MAX WIRE INSULATION DIAMETER (mm)
A1 to F1 A2 to F2 A3 to F3 A4 to F4	CP 0.6 0.35mm2	Tin plated	0643221019	Ø125 min / Ø140 Max
		Gold plated	0643221229	
	CP 0.6 0.5mm2	Tin plated	0643221039	Ø140 min / Ø170 Max
		Gold plated	0643221239	
G1 to H4 G1 to H4	CP 0.6 0.75mm2	Tin plated	0643221029	Ø160 min / Ø190 Max
		Gold plated	0643221219	
	CP 15 0.5mm2 to 1mm2	Tin plated	0643231029	Ø140 min / Ø215 Max
		Gold plated	0643231319	
	CP 15 >1mm2 to 2mm2	Tin plated	0643231039	Ø210 min / Ø280 Max
		Gold plated	0643231219	

UPDATED DRAWING  
 EC NO: 0  
 DRAWING DESIGNED BY: 2009/06/04  
 CHKDC: BOUCHAN  
 APPR: [REDACTED]

GENERAL TOLERANCES  
(UNLESS SPECIFIED)

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

ANGULAR ± 2°

DRAFT WHERE APPLICABLE  
MUST REMAIN  
WITHIN DIMENSIONS

DIMENSION STYLE  
**MM ONLY**

DRAWN BY: T. BADAROUX  
DATE: 2008/05/23

CHECKED BY: P. GRANDCLAUD  
DATE: 2008/05/23

APPROVED BY: C. BOUCHAN  
DATE: 2008/05/23

MATERIAL NO. [REDACTED]

DOCUMENT NO. [REDACTED]

SCALE: 2.5:1  
 DESIGN UNITS: METRIC  
 FIRST ANGLE PROJECTION

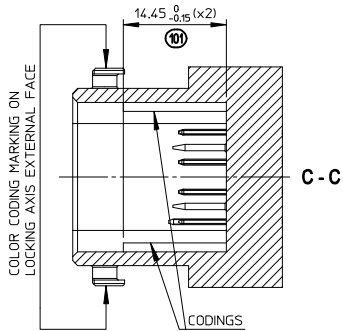
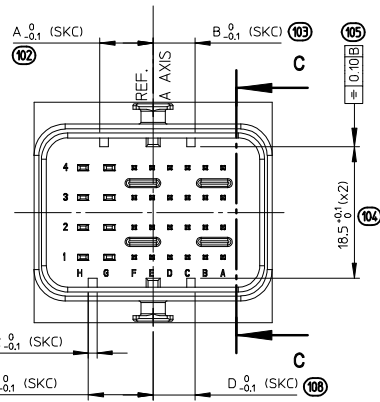
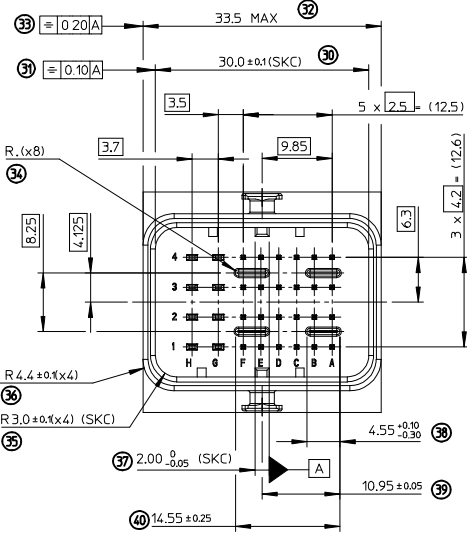
TITLE: CMC CONNECTOR 24 WAY  
MAT SEAL VERSION

MOLEX INCORPORATED

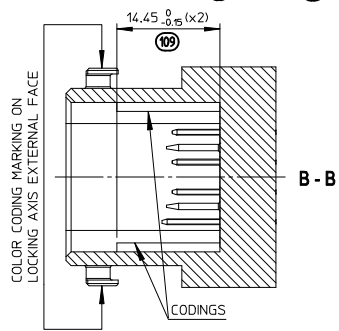
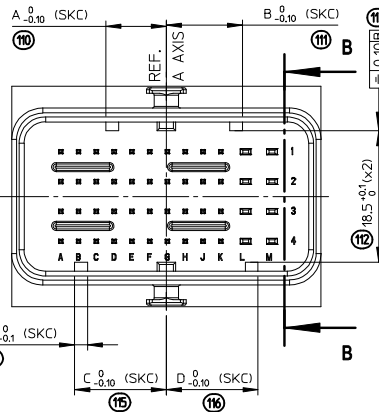
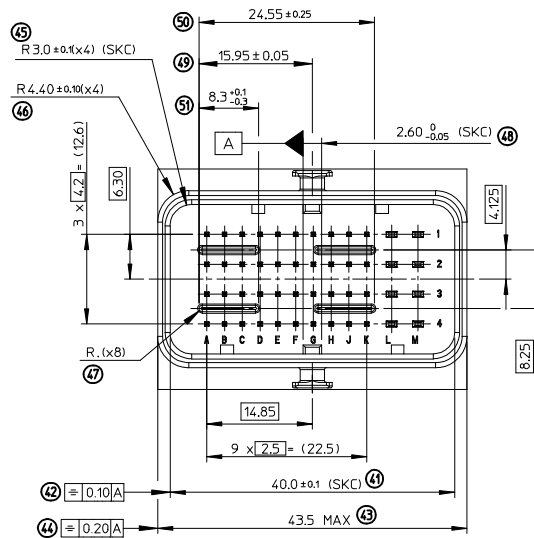
SHEET NO. 2 OF 2  
 SD-64319-003

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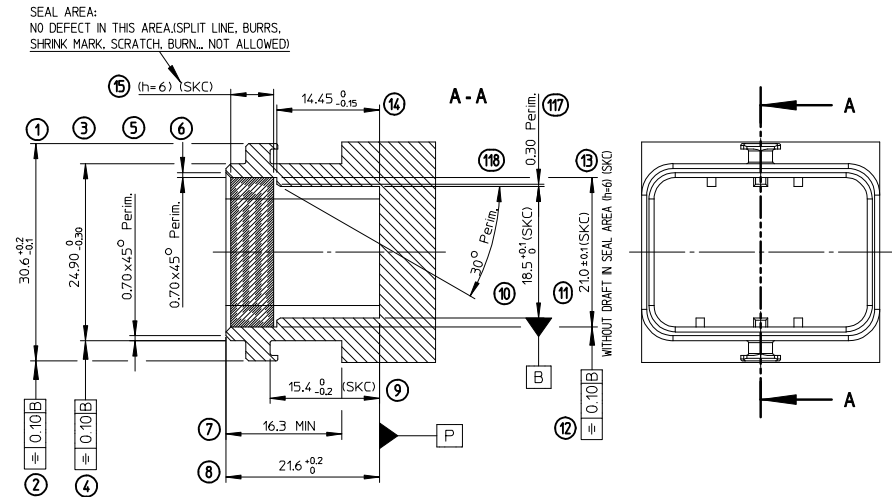
**INTERFACE FOR HYBRID MODULE T2 (32 WAY)**



**INTERFACE FOR HYBRID MODULE T3 (48 WAY)**



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



**HEADERS CODINGS**

(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)

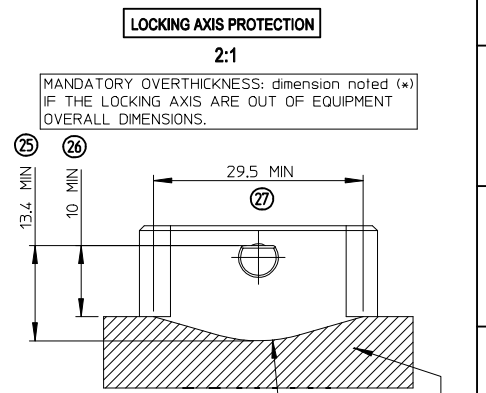
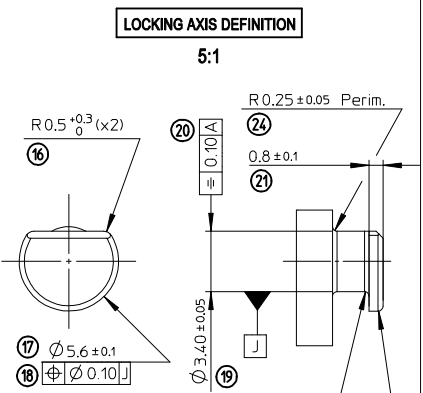
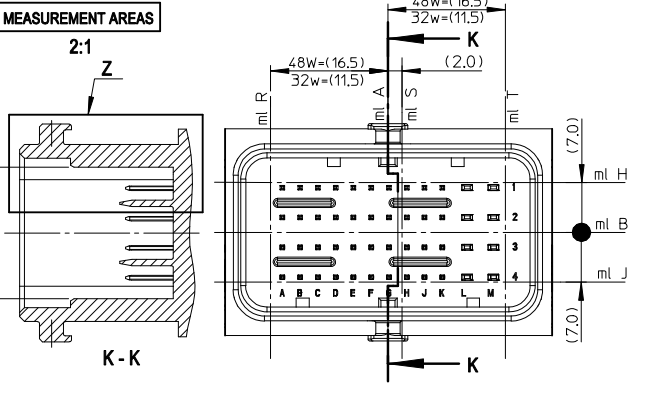
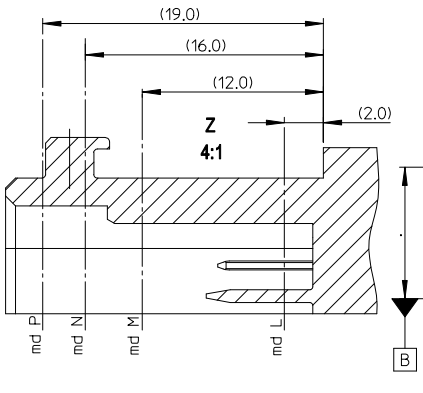
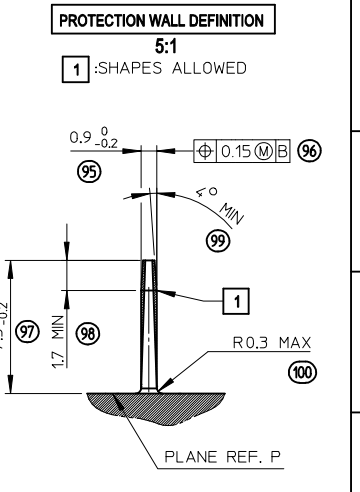
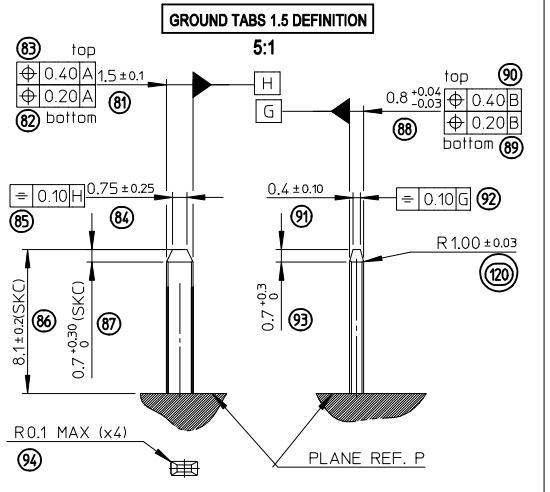
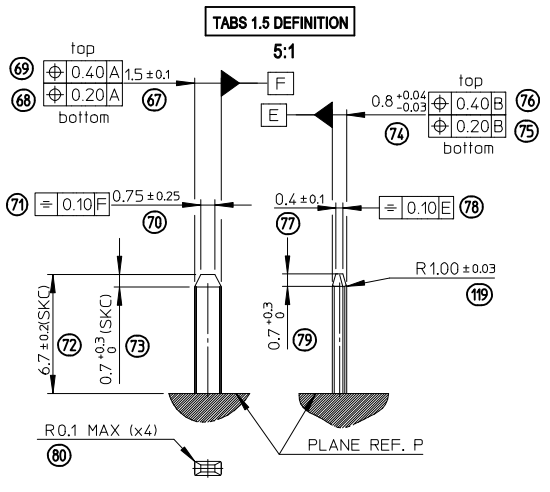
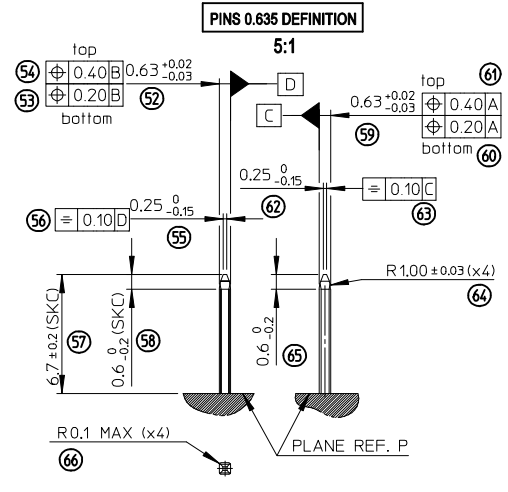
HEADER'S CODINGS FOR MODULE T3 (48W)					
COLOR	CODINGS	DIM. A	DIM. B	DIM. C	DIM. D
BLACK	1	12.9	6.3	8.5	6.3
GREY	2	10.7	8.5	12.9	8.5
BROWN	3	8.5	10.7	12.9	12.9
GREEN	4	10.7	12.9	6.3	6.3
BLUE	5	6.3	10.7	8.5	8.5
YELLOW	6	12.9	10.7	6.3	10.7

(SKC) SPECIAL KEY CHARACTERISTIC  
 QUANTITY PER INDIVIDUAL SHEET  
 (SKC) = 20

**NOTE:**

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

REVISED EC NO: GZ009-0185 DRWN: GDESBRUERES 2008/12/10 CHKD: J.GIURIATO 2008/12/11 APPR: O.PLESSIS 2008/12/15	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE <b>MM ONLY</b>	SCALE <b>2:1</b>	DESIGN UNITS <b>METRIC</b>	FIRST ANGLE PROJECTION
		4 PLACES ± --- ± --- 3 PLACES ± --- ± --- 2 PLACES ± 0.10 ± --- 1 PLACE ± 0.10 ± --- ANGULAR ± 2°	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
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		INTERFACES FOR MODULES 32 & 48 CKT CMC GENERIC SALES DRAWING <b>MOLEX INCORPORATED</b>				
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION						



### T2 (32W)

POS N°	NOMINAL DIM.	MEASURE LINE ml	MEASURE DEPTH md
1	30.6 +0.20/-0.10		
3	24.9 0/-0.30	A, R, T	M, P
	24.5 MIN 24.9 MAX	A, R, T	L
8	21.6 ±0.20/0	MIN / MAX	
10	18.5 ±0.10/0	A	L, M
11	21.0 ±0.10	A, R, S, T	N, P
	20.8 MIN 21.1 MAX	R, S, T	L
30	30 ±0.10	B, H, J	N, P
	29.8 MIN 30.1 MAX	B, H, J	L
32	33.5 MAX	B, H, J	P
35	R3.0 ±0.10		L, N, P
37	2.0 0/-0.05		L, M
102-103-107-108	SEE CHART SHEET 1	CODING	L, M
104	18.5 ±0.10/0	CODING	L, M
106	1.2 0/-0.10	CODING	L, M

### T3 (48W)

POS N°	NOMINAL DIM.	MEASURE LINE ml	MEASURE DEPTH md
1	30.6 +0.20/-0.10		
3	24.9 0/-0.30	A, R, T	M, P
	24.5 MIN 24.9 MAX	A, R, T	L
8	21.6 ±0.20/0	MIN / MAX	
10	18.5 ±0.10/0	A	L, M
11	21.0 ±0.10	A, R, S, T	N, P
	20.8 MIN 21.1 MAX	R, S, T	L
41	40 ±0.10	B, H, J	N, P
	39.8 MIN 40.1 MAX	B, H, J	L
43	43.5 MAX	B, H, J	P
45	R3.0 ±0.10		L, N, P
48	2.6 0/-0.05		L, M
110-111-115-116	SEE CHART SHEET 1	CODING	L, M
112	18.5 ±0.10/0	CODING	L, M
114	1.8 0/-0.10	CODING	L, M

MEASUREMENT CHARTS FOR INTERFACES SIZES T2 / T3

REVISED  
EC NO: G2009-0185  
DRAWN: GDEBRUERES 2008/12/10  
CHKD: J. GIURIATO 2008/12/11  
APPR: O.PLESSIS 2008/12/15

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES ±	---	---
3 PLACES ±	---	---
2 PLACES ±	0.10	---
1 PLACE ±	0.10	---

ANGULAR ± 2°

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE  
**MM ONLY**

DRAWN BY: G. DESBRUERES 2008/10/02  
DATE: 2008/10/02

CHECKED BY: J. GIURIATO 2008/10/03  
DATE: 2008/10/03

APPROVED BY: O. PLESSIS 2008/10/06  
DATE: 2008/10/06

MATERIAL NO. N/A

SCALE: 1:1  
DESIGN UNITS: METRIC  
FIRST ANGLE PROJECTION

TITLE: INTERFACES FOR MODULES 32 & 48 CKT CMC  
GENERIC SALES DRAWING

MOLEX INCORPORATED

DOCUMENT NO. SD-98644-006  
SHEET NO. 2 OF 3

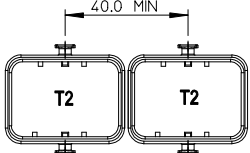
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

# CONNECTOR ON HEADER - OVERALL DIMENSIONS

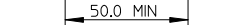
MULTI-HEADERS LAYOUT

### LAYOUT FOR TWO INTERFACES T2 (32W)

FOR SAME HARNESS EXIT CONFIGURATION

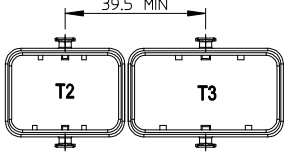


FOR OPPOSITE HARNESS EXIT CONFIGURATION

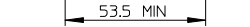


### LAYOUT FOR TWO INTERFACES T2 (32W) AND T3 (48W)

FOR SAME HARNESS EXIT CONFIGURATION

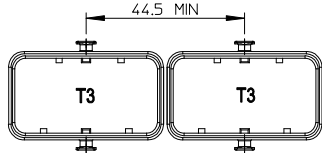


FOR OPPOSITE HARNESS EXIT CONFIGURATION

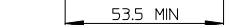


### LAYOUT FOR TWO INTERFACES T3 (48W)

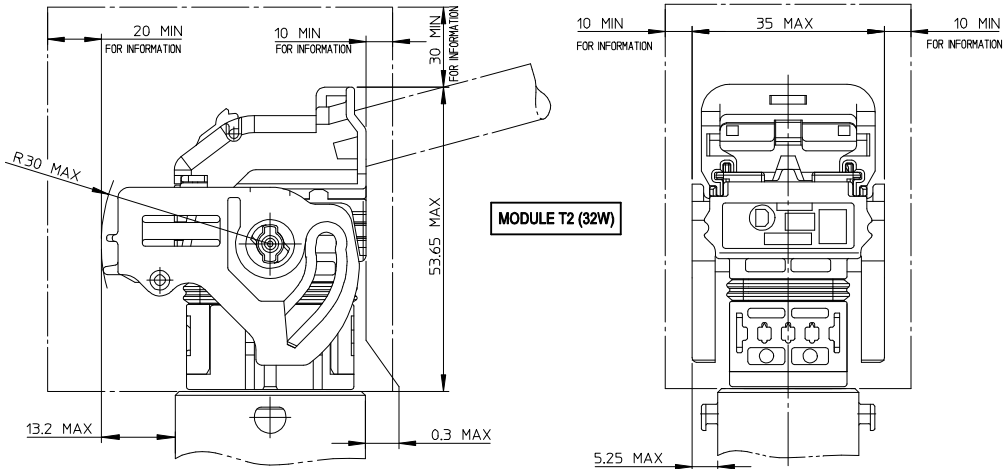
FOR SAME HARNESS EXIT CONFIGURATION



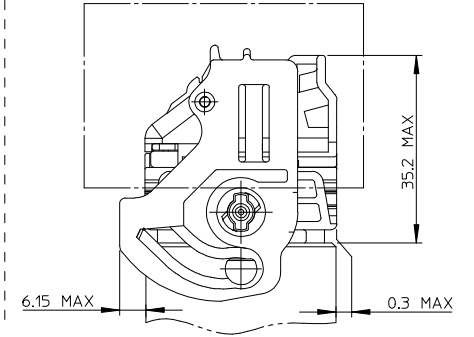
FOR OPPOSITE HARNESS EXIT CONFIGURATION



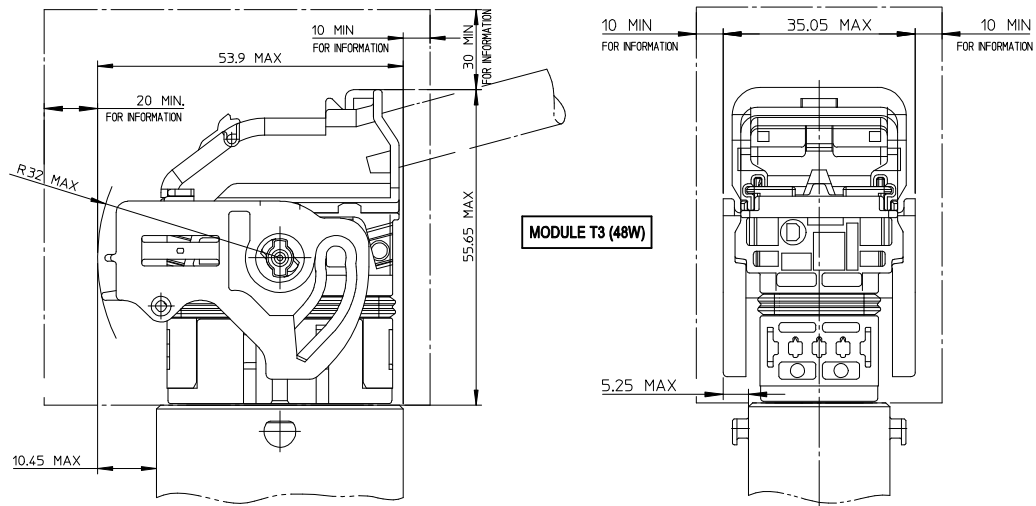
### UNLOCKED CONNECTOR - OVERALL DIMENSIONS



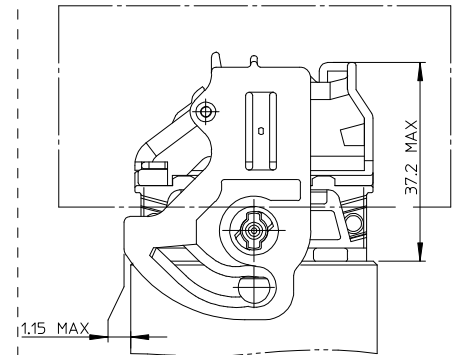
### LOCKED CONNECTOR - OVERALL DIMENSIONS



### UNLOCKED CONNECTOR - OVERALL DIMENSIONS



### LOCKED CONNECTOR - OVERALL DIMENSIONS



### 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  
ECL NO: G2009-0185  
DRAWN: DESBRUERES 2008/12/10  
CHKD: J. GIURIATO 2008/12/11  
APPR: PLESSIS 2008/12/15

DESCRIPTION

### GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± 0.10	± 0.004
3 PLACES	± 0.15	± 0.005
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	DATE
DRAWN BY	G. DESBRUERES 2008/10/02
CHECKED BY	J. GIURIATO 2008/10/03
APPROVED BY	O. PLESSIS 2008/10/06
MATERIAL NO.	N/A

### SCALE

1:1	DESIGN UNITS
METRIC	

### FIRST ANGLE PROJECTION

TITLE	DATE
INTERFACES FOR MODULES 32 & 48 CKT CMC GENERIC SALES DRAWING	
MOLEX INCORPORATED	
DOCUMENT NO.	SD-98644-006
SHEET NO.	3 OF 3

SIZE A2  
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