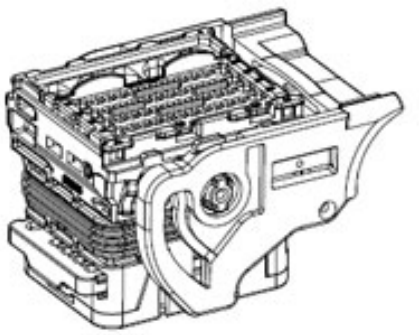
This document was generated on 05/19/2010

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

**Part Number:** 0643203318
**Status:** Active
**Overview:** cmc_connectors
**Description:** .635mm (.025"), 1.50mm (.059"), CMC Receptacle, 48 Circuits, Right Wire Output, Gray Coding, Mat Sealed



*Series image - Reference only*

**Documents:**

3D Model
Drawing (PDF)
Application Specification (PDF)
Product Specification PS-64319-001 (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) | 48 |
| Circuits Detail | 8 x 1.5mm & 40 x 0.635mm terminals |
| Color - Resin | Gray |
| Gender | Female |
| Glow-Wire Compliant | No |
| Keying to Mating Part | Yes |
| Lock to Mating Part | Yes |
| Material - Resin | Polyester |
| Number of Rows | 4 |
| 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 |

## Material Info

## Reference - Drawing Numbers

| | |
|---|---|
| Application Specification | AS-64319-001 |
| Packaging Specification | PK-64320-001 |
| Product Specification | PS-64319-001 |
| Sales Drawing | SD-64320-001, SD-98993-008 |

**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

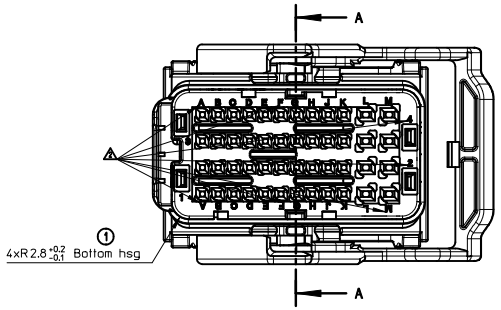
Please visit the Contact Us section for any non-product compliance questions.

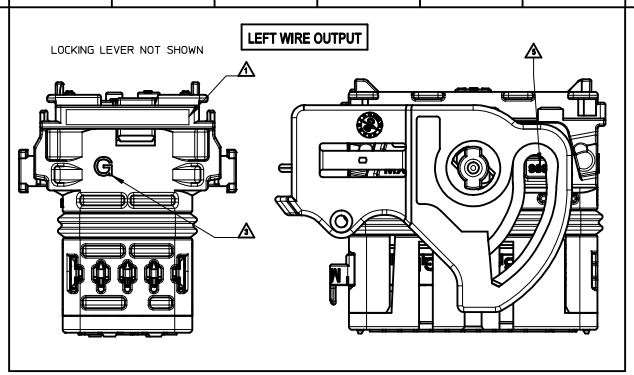
**Search Parts in this Series**
64320Series

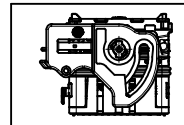
**Use With**
CMC CP Female Terminal 64322 , 64323.
Circuit Way Plugs 643251010 , 643251023.
CMC Wire Cap 643201301.

This document was generated on 05/19/2010

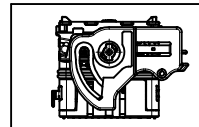
**PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION**



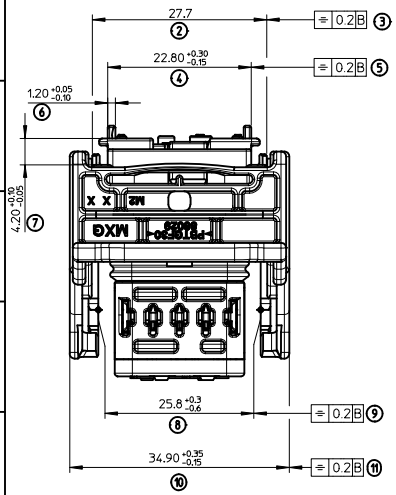



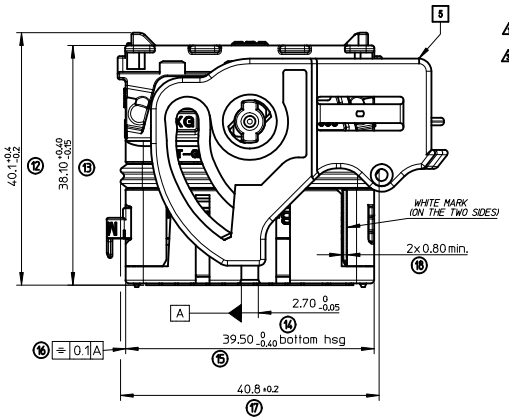



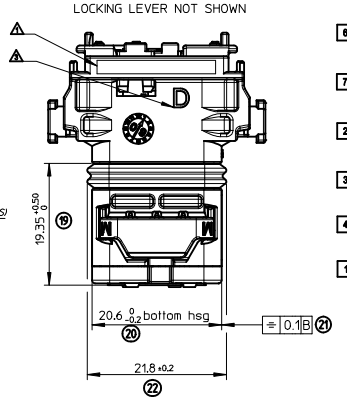
| LEFT WIRE OUTPUT | |
|---|---|
| MATERIAL NUMBER | COLOR |
| 0643201311 | BLACK |
| 0643201318 | GREY |
| 0643201319 | BROWN |
| 0643201315 | GREEN |

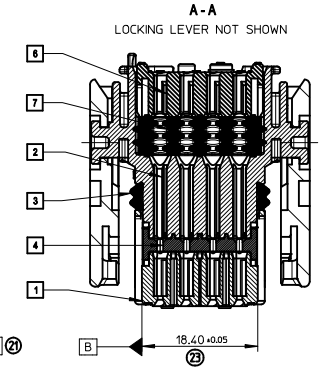


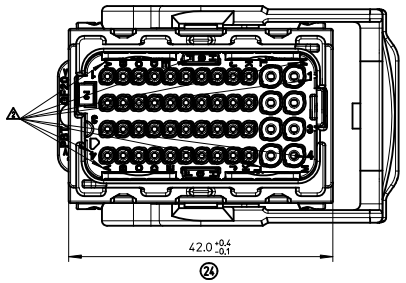
| RIGHT WIRE OUTPUT | |
|---|---|
| MATERIAL NUMBER | COLOR |
| 0643203311 | BLACK |
| 0643203318 | GREY |
| 0643203319 | BROWN |
| 0643203315 | GREEN |

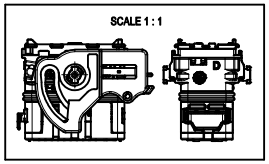



| | | | |
|---|---|---|---|
| 7 | MAT SEAL | Silicon | BLUE |
| 6 | BACK GRID 48W | >PBT-GF20< | GREY |
| 5 | LOCKING LEVER 48W | >PBT-GF30< | BLACK |
| 4 | SECONDARY LOCK | >PBT-GF20< | GREY |
| 3 | PERIPHERAL SEAL 48W | Silicon | RED |
| 2 | BACK PART | >PBT-GF20< | BLACK |
| 1 | FRONT PART | >PBT-GF20< | COLOR LINKED TO KEYING |
| REF. | DESIGNATION | MATERIAL | COLOR |

**MARKINGS :**

A - Assembled part tracability
Day + Year

A - Terminal cavities identification

A - Lever position indicator:
"D" LETTER VISIBLE= part with "LEVER ON THE RIGHT"
"G" LETTER VISIBLE= part with "LEVER ON THE LEFT"

A - Supplier identification

A - Material identification

**NOTES:**

1-FOR ILLUSTRATION PURPOSE THE FEMALE HOUSING SHOWN 15 THE RIGHT WIRE OUTPUT VERSION CODING 1

2-APPPLICATION 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 Ø1.40MM 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

UPDATED DRAWING
EC NO: DRWN:GDESBRUERES 2009/06/02
CHKD:C.BOUCHAN
APPR:
REV: D
DESCRIPTION

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

DRAWN BY: T.BADAROUX DATE: 2007/07/16
CHECKED BY: P.GRANDCLAUD DATE: 2007/07/16
APPROVED BY: C.BOUCHAN DATE: 2007/07/16
MATERIAL NO.: SEE SHEET 2
DOCUMENT NO.: SD-64320-001
SHEET NO.: 1 OF 2
SIZE: A1

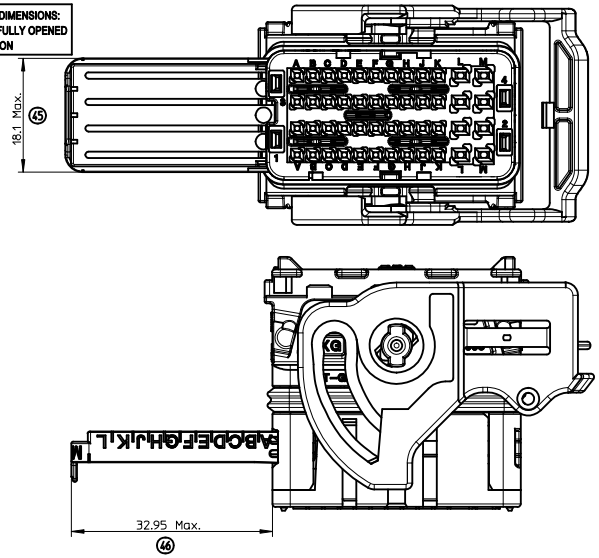
TITLE: CMC CONNECTOR 48 WAY MAT SEAL VERSION

MOLEX INCORPORATED

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

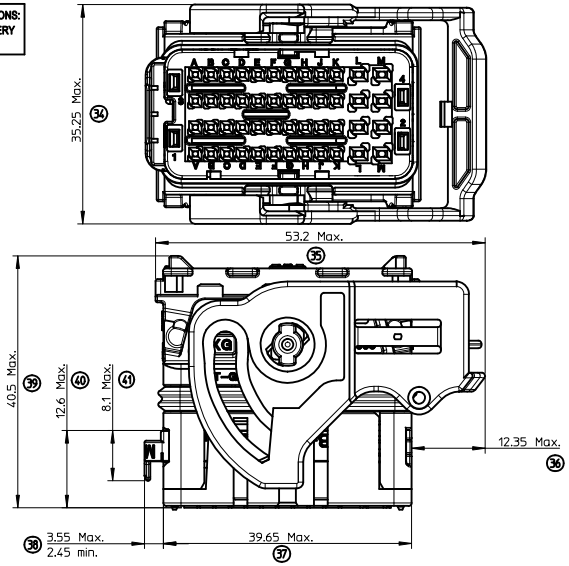
CONNECTOR OVERALL DIMENSIONS: SECONDARY LOCKING FULLY OPENED FOR TERMINAL INSERTION

RIGHT WIRE OUTPUT



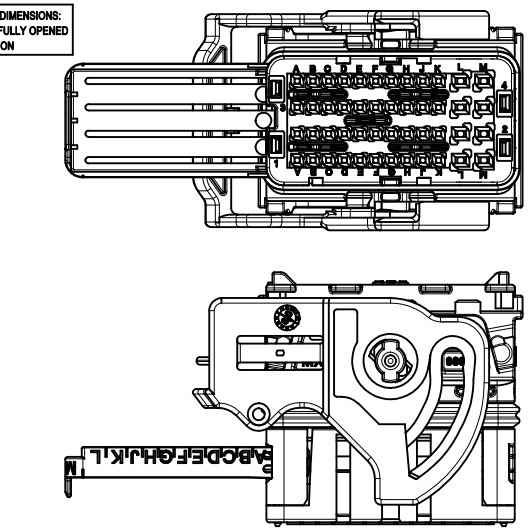

CONNECTOR OVERALL DIMENSIONS: SECONDARY LOCKING IN DELIVERY POSITION

RIGHT WIRE OUTPUT



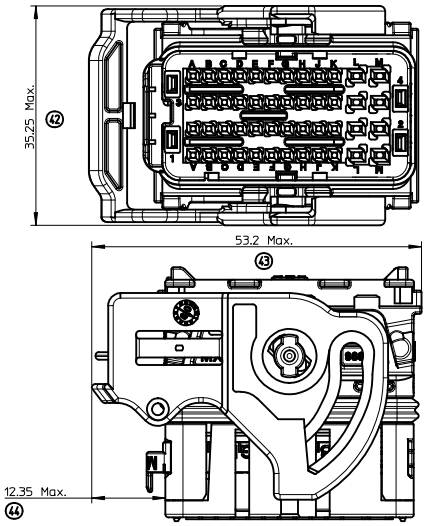

CONNECTOR OVERALL DIMENSIONS: SECONDARY LOCKING FULLY OPENED FOR TERMINAL INSERTION

LEFT WIRE OUTPUT

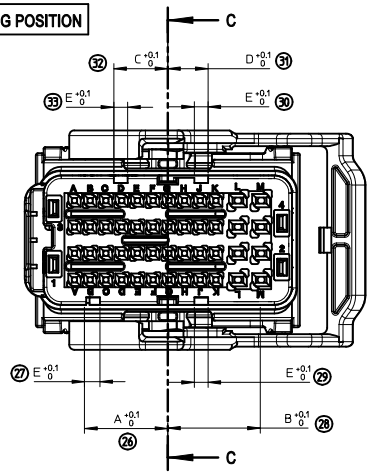


CONNECTOR OVERALL DIMENSIONS: SECONDARY LOCKING IN DELIVERY POSITION

LEFT WIRE OUTPUT

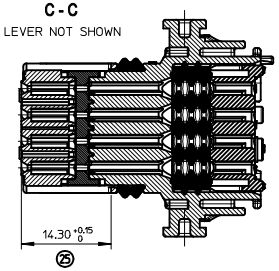



CODING POSITION




C - C

LOCKING LEVER NOT SHOWN




| COLOR | CODING | 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 P/N° | min / MAX WIRE INSULATION DIAMETER (mm) |
|---|---|---|---|---|
| A1 to K1<br>A2 to K2<br>A3 to K3<br>A4 to K4 | CP 0.6<br>0.35mm2 | Tin plated | 0643221019 | Ø1.25 min / Ø1.40 Max |
| | | Gold plated | 0643221229 | |
| | CP 0.6<br>0.5mm2 | Tin plated | 0643221039 | Ø1.40 min / Ø1.70 Max |
| | | Gold plated | 0643221239 | |
| | CP 0.6<br>0.75mm2 | Tin plated | 0643221029 | Ø1.60 min / Ø1.90 Max |
| | | Gold plated | 0643221219 | |
| L1 to L4<br>M1 to M4 | CP 1.5<br>0.5mm2 to 1mm2 | Tin plated | 0643231029 | Ø1.40 min / Ø2.15 Max |
| | | Gold plated | 0643231319 | |
| | CP 1.5<br>>1mm2 to 2mm2 | Tin plated | 0643231039 | Ø2.10 min / Ø2.80 Max |
| | | Gold plated | 0643231219 | |

UPDATED DRAWING
EC NO: DRWN:GDESBRUERES 2009/06/02
CHKD:C.BOUCHAN
APPR:
REV: D
DESCRIPTION

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

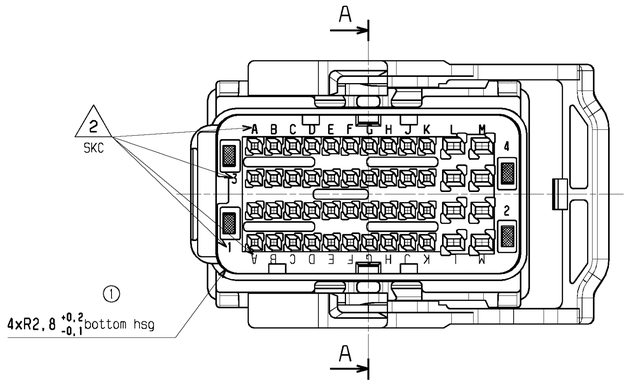
DIMENSION STYLE: MM ONLY
SCALE: 2.5:1
DESIGN UNITS: METRIC
FIRST ANGLE PROJECTION

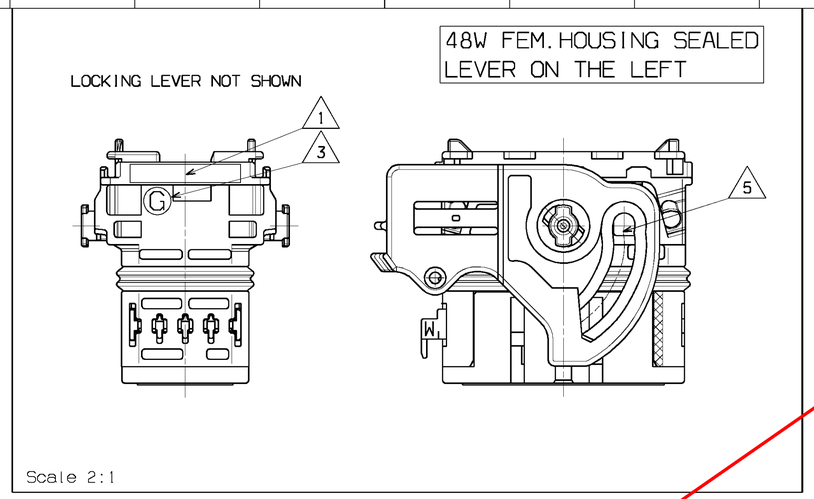
DRAWN BY: T.BADAROUX DATE: 2007/07/16
CHECKED BY: P.GRANDCLAUD DATE: 2007/07/16
APPROVED BY: C.BOUCHAN DATE: 2007/07/16
MATERIAL NO.: SEE CHART SH.2
DOCUMENT NO.: SD-64320-001
SHEET NO.: 2 OF 2
SIZE: A1

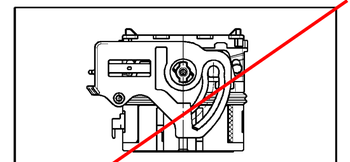
TITLE: CMC CONNECTOR 48 WAY MAT SEAL VERSION

MOLEX INCORPORATED

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

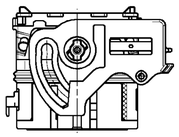


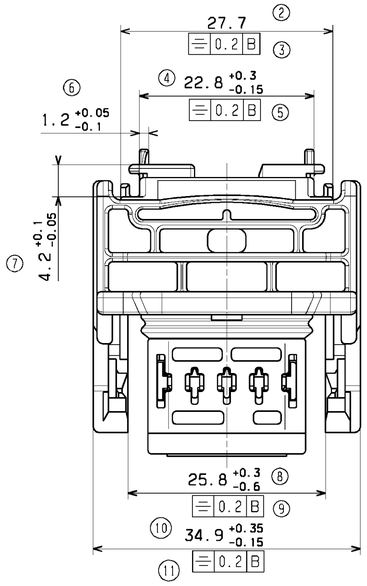
LEVER ON THE LEFT

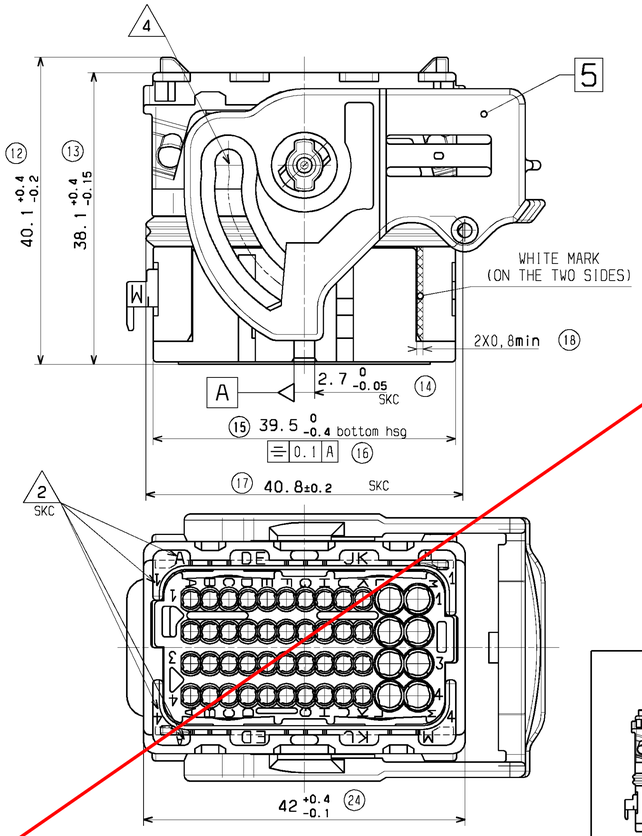
| MATERIAL NUMBER | COLOR |
|---|---|
| 0643201311 | BLACK |
| 0643201318 | GREY |
| 0643201319 | BROWN |
| 0643201315 | GREEN |
| | BLUE |
| | YELLOW |

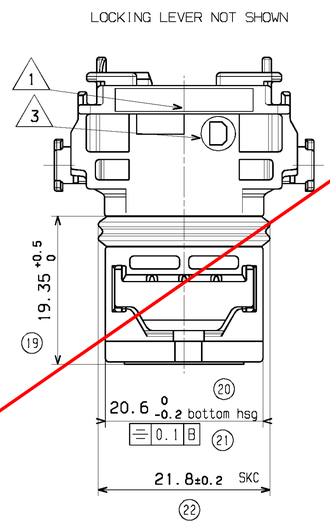


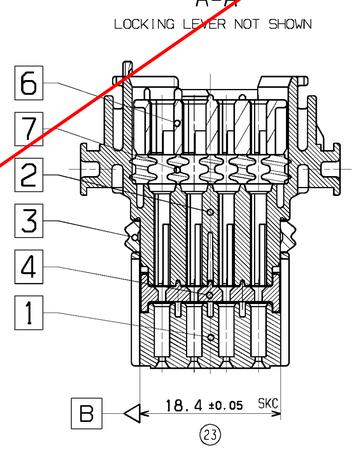
LEVER ON THE RIGHT

| MATERIAL NUMBER | COLOR |
|---|---|
| 0643203311 | BLACK |
| 0643203318 | GREY |
| 0643203319 | BROWN |
| 0643203315 | GREEN |
| | BLUE |
| | YELLOW |



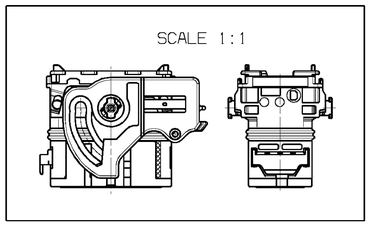




SKC: CS CHARACTERISTICS
- DENOTES S.P.C DIMENSIONS
- DENOTES CRITICAL DIMENSIONS
- DENOTES FUNCTIONAL DIMENSIONS

QUANTITY PER INDIVIDUAL SHEET

0 | 0 | 0 | SKC: 13

| | | | | |
|---|---|---|---|---|
| 0989930396 | 7 | MATT SEAL | SILICONE SKC | BLUE |
| 0989930356 | 6 | BACK GRID 48 WAY | PBT-GF20 SKC | BLUE |
| 0989930341 | 5 | LOCKING LEVER SIZE 3 | PBT-GF30 SKC | BLACK |
| 0989930338 | 4 | SECONDARY LOCK | PBT-GF20 SKC | GREY |
| 0986560002 | 3 | PERIPHERAL SEAL SIZE 3 | SILICONE SKC | RED |
| 0989930311 | 2 | BACK PART | PBT-GF20 SKC | BLACK |
| 0989930321<br>0989930328<br>0989930325<br>0989930329 | 1 | FRONT PART | PBT-GF20 SKC | COLOR ASSOCIATED TO KEYING |
| MATERIAL NUMBER | MARK | DESIGNATION | MATERIAL | COLOR |




MARKINGS

1. Assembled part tracability day + year
2. Terminal cavities identification
3. Lever position indicator:
   "D"LETTER VISIBLE= part with "LEVER ON THE RIGHT"
   "G"LETTER VISIBLE= part with "LEVER ON THE LEFT"
4. Supplier identification
5. Material identification

NOTES

1-FOR ILLUSTRATION PURPOSE THE FEMALE HOUSING SHOWN IS THE RIGHT WIRE OUTPUT VERSION CODING 1

2-INTERFACE DEFINITION, OVERALL DIMENSION AND LOCATION ON HEADER AS PER RSD-98644-005

3-CAVITIES TERMINALS DESIGN AS PER

6-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 Ø1,80MM MIN AND Ø2,80MM MAX

7-THE CONNECTOR FITS WITH WIRE CAP T3 (48WAY) MOLEX P/N 0643201301

8-BLIND PLUG FOR 0,6 AND 1,5 CAVITIES (MOLEX P/N 0643251010 AND 0643251023) MUST BE USED ON THIS PART

9-DELIVERED PRODUCT WEIGHT: 33,8 g

VOID AND SUPERSEDED BY SD-64320-001 rev C

UPDATED DRAWING
EC NO:G2008-0367 2008/04/21
DRWN:TBADAROUX 2008/04/21
CH'KD:PGRANDCLAUDE 2008/04/21
APPR:CBOUCHAN 2008/04/21
DESCRIPTION
REV C

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

DRAWN BY: TBADAROUX DATE: 2007/07/16
CHECKED BY: PGRANDCLAUDE DATE: 2007/07/16
APPROVED BY: CBOUCHAN DATE: 2007/07/16

TITLE: CMC CONNECTOR 48 WAY
MATT SEAL VERSION

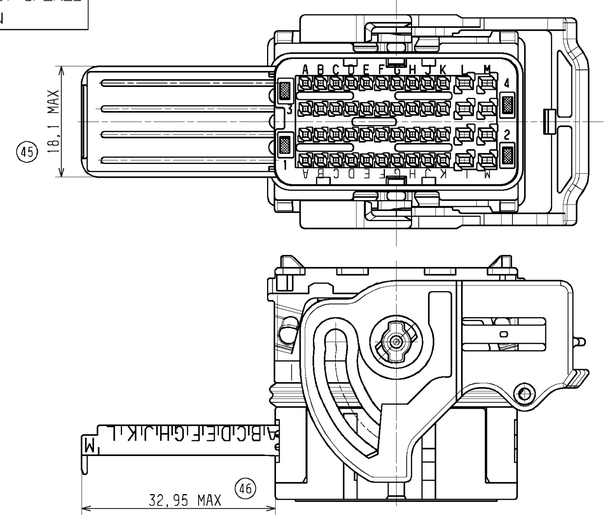
MOLEX INCORPORATED

MATERIAL NO.: SEE CHART
DOCUMENT NO.: SD-98993-008
SHEET NO.: 1 OF 2
SIZE: A1

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

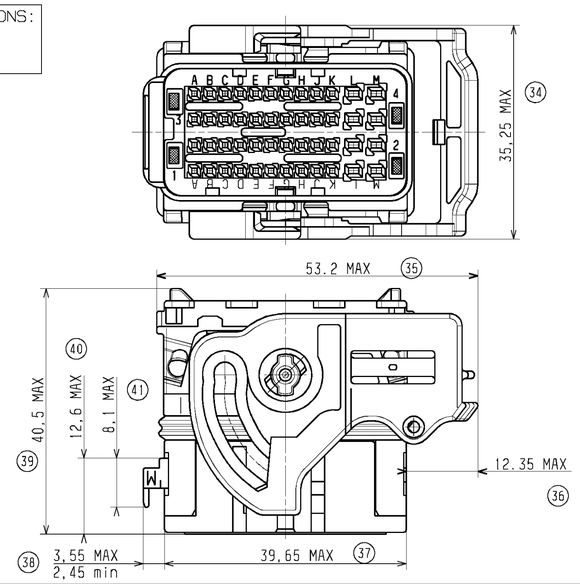
CONNECTOR OVERALL DIMENSIONS:
SECONDARY LOCKING FULLY OPENED
FOR TERMINAL INSERTION

RIGHT WIRE OUTPUT



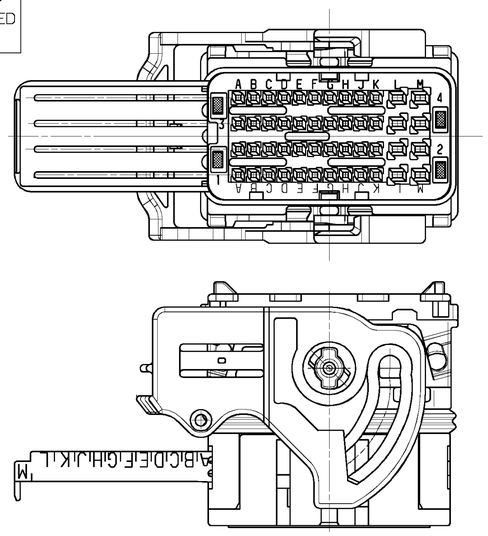

CONNECTOR OVERALL DIMENSIONS:
SECONDARY LOCKING IN
DELIVERY POSITION

RIGHT WIRE OUTPUT



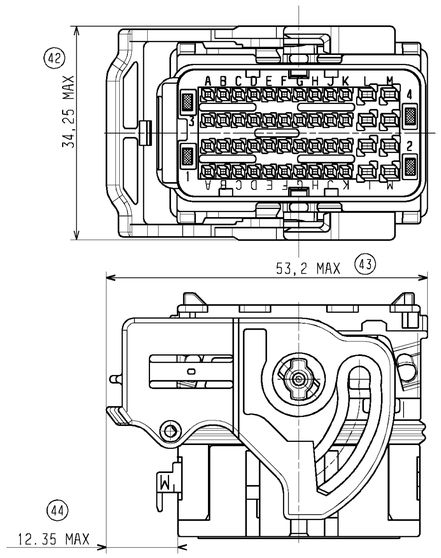

CONNECTOR OVERALL DIMENSIONS:
SECONDARY LOCKING FULLY OPENED
FOR TERMINAL INSERTION

LEFT WIRE OUTPUT

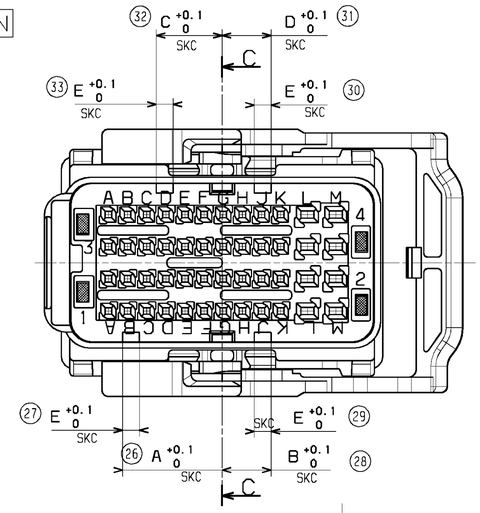


CONNECTOR OVERALL DIMENSIONS:
SECONDARY LOCKING IN
DELIVERY POSITION

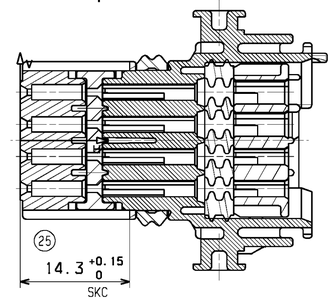
LEFT WIRE OUTPUT




## CODING POSITION




C-C
LOCKING LEVER NOT SHOWN




| COLOR | KEYING | A +0.1 0 | B +0.1 0 | C +0.1 0 | D +0.1 0 | E +0.1 0 |
|---|---|---|---|---|---|---|
| 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 |
| BLUE | 5 | 6,4 | 10,8 | 8,6 | 8,6 | 2,2 |
| YELLOW | 6 | 13 | 10,8 | 6,4 | 10,8 | 2,2 |

| TERMINALS USED | | MOLEX PART NUMBER | | | |
|---|---|---|---|---|---|
| | | TIN PLATED TERMINAL | | GOLD PLATED TERMINAL 1.27µm min | |
| CAVITIES IDENTIFICATION | FEMALE TERMINAL 0,635 A1 to F1 A2 to F2 A3 to F3 A4 to F4 | (0,35 to 0,44 mm2) 0643221019 | (0,5 mm2) 0643221039 | (0,35 to 0,44 mm2) 0643221229 | (0,5 mm2) 0643221239 |
| | | | (0,75 mm2) 0643221029 | | (0,75 mm2) 0643221219 |
| | FEMALE TERMINAL 1.50 G1 to G4 H1 to H4 | ( 1 mm2) 0643231029 | (>1 to 2 mm2) 0643231039 | ( 1 mm2) 0643231319 | (>1 to 2 mm2) 0643231219 |
| | | | | | |

SKC: CS CHARACTERISTICS
DENOTES S.P.C DIMENSIONS
DENOTES CRITICAL DIMENSIONS
DENOTES FUNCTIONAL DIMENSIONS
QUANTITY PER INDIVIDUAL SHEET
0 0 0 SKC: 9

UPDATED DRAWING
EC NO:G2008-0367 2008/04/21
DRWN:TBADAROUX 2008/04/21
CH'KD:PGRANDCLAUDE 2008/04/21
APPR:CBOUCHAN 2008/04/21
DESCRIPTION
REV C

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
SCALE: 2:1
DESIGN UNITS: METRIC
FIRST ANGLE PROJECTION

DRAWN BY TBADAROUX DATE 2007/07/16
CHECKED BY PGRANDCLAUDE DATE 2007/07/16
APPROVED BY CBOUCHAN DATE 2007/07/16

TITLE
CMC CONNECTOR 48 WAY
MATT SEAL VERSION

molex MOLEX INCORPORATED

MATERIAL NO. SEE SHEET 1
DOCUMENT NO. SD-98993-008
SHEET NO. 2 OF 2
SIZE A1

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