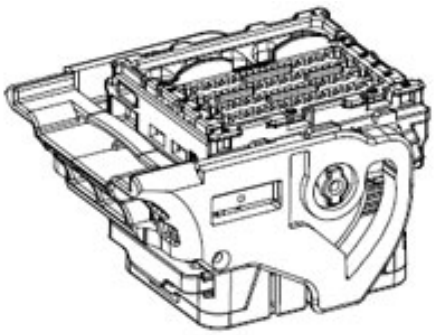
This document was generated on 05/19/2010

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: 0643201315
Status: Active
Overview: cmc_connectors
Description: .635mm (.025"), 1.50mm (.059"), CMC Receptacle, 48 Circuits, Left Wire Output, Green 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	Green
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

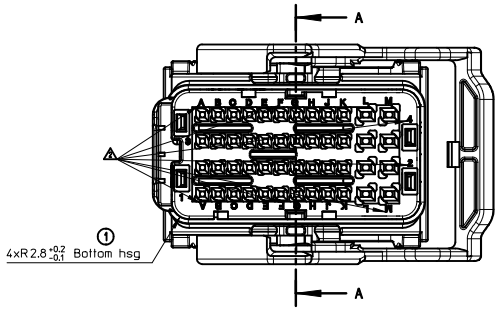
Please visit the Contact Us section for any non-product compliance questions.

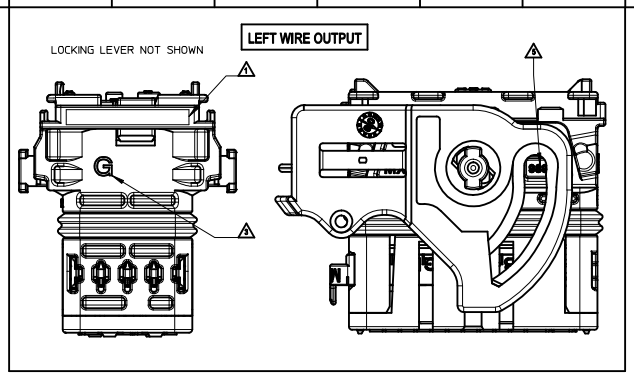
Search Parts in this Series
64320Series

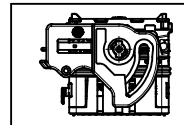
Use With
CMC CP Female Terminal 64322 , 64323.
Circuit Way Plugs 643251010 , 643251023.
CMC Wire Cap 643201301.

This document was generated on 05/19/2010

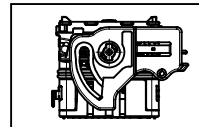
PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION



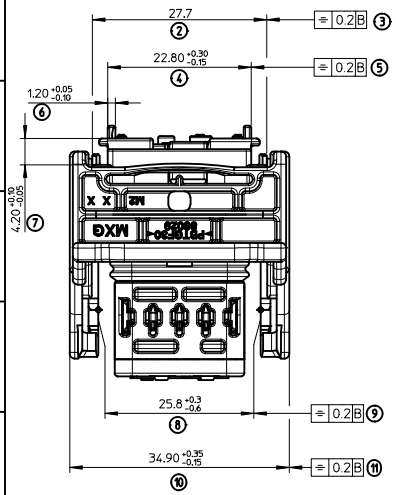


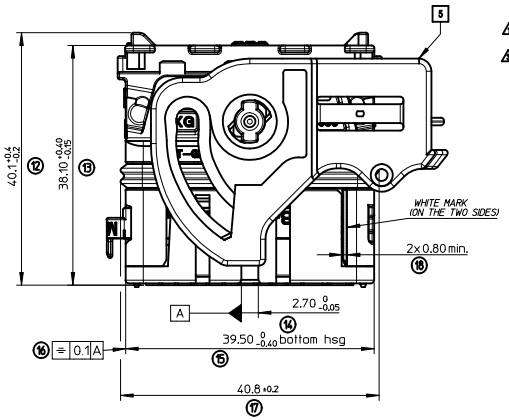


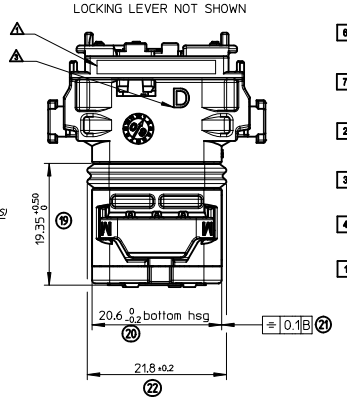
LEFT WIRE OUTPUT	
MATERIAL NUMBER	COLOR
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0643201318	GREY
0643201319	BROWN
0643201315	GREEN

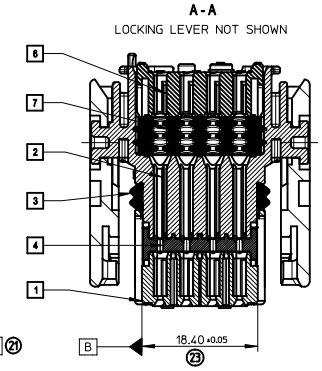


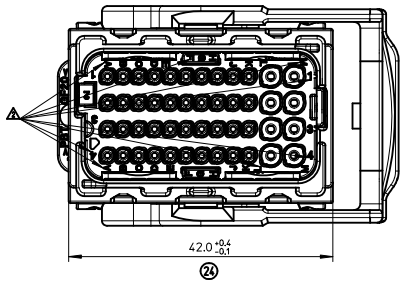
RIGHT WIRE OUTPUT	
MATERIAL NUMBER	COLOR
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0643203318	GREY
0643203319	BROWN
0643203315	GREEN

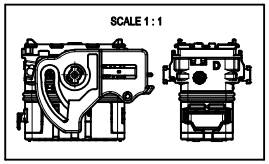












7	MAT SEAL	Silicon	BLUE
6	BACK GRID 48W	>PBT-GF20<	GREY
5	LOCKING LEVER 48W	>PBT-GF30<	BLACK
4	SECONDARY LOCK	>PBT-GF20<	GREY
3	PERIPHERAL SEAL 48W	Silicon	RED
2	BACK PART	>PBT-GF20<	BLACK
1	FRONT PART	>PBT-GF20<	COLOR LINKED TO KEYING
REF.	DESIGNATION	MATERIAL	COLOR

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

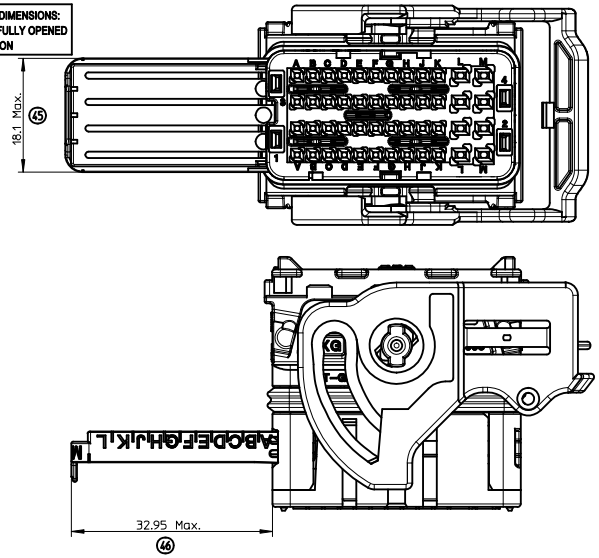
TITLE: CMC CONNECTOR 48 WAY MAT SEAL VERSION

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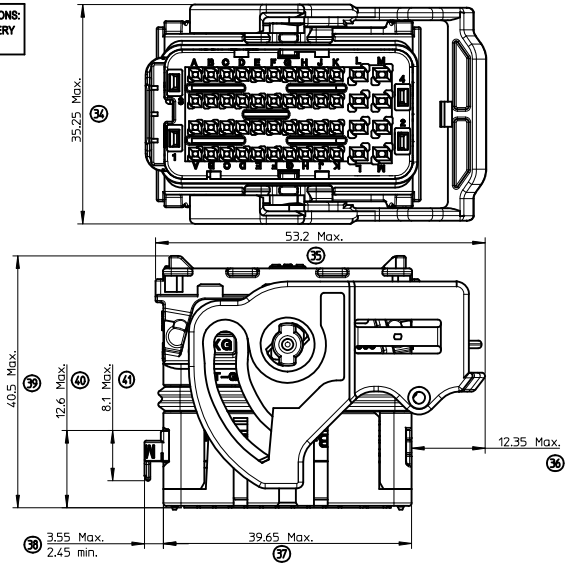
CONNECTOR OVERALL DIMENSIONS: SECONDARY LOCKING FULLY OPENED FOR TERMINAL INSERTION

RIGHT WIRE OUTPUT



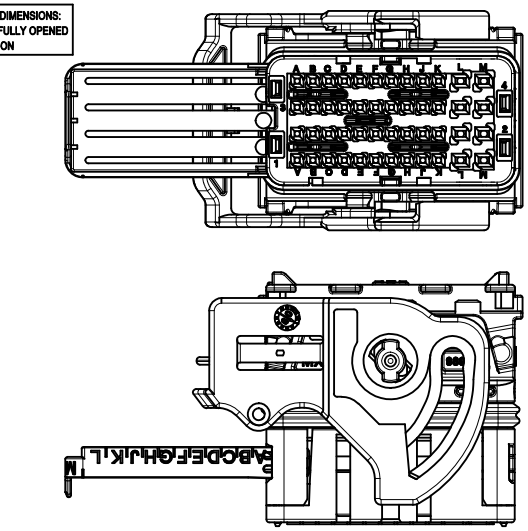
CONNECTOR OVERALL DIMENSIONS: SECONDARY LOCKING IN DELIVERY POSITION

RIGHT WIRE OUTPUT



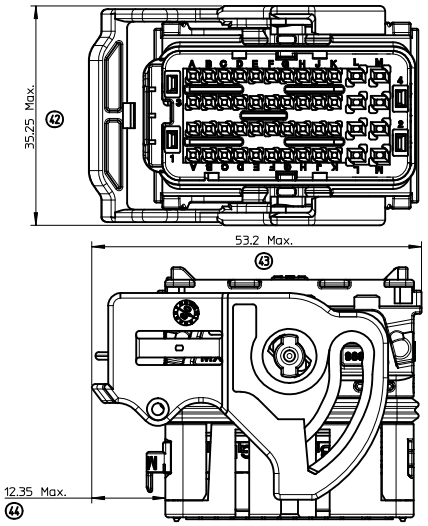
CONNECTOR OVERALL DIMENSIONS: SECONDARY LOCKING FULLY OPENED FOR TERMINAL INSERTION

LEFT WIRE OUTPUT

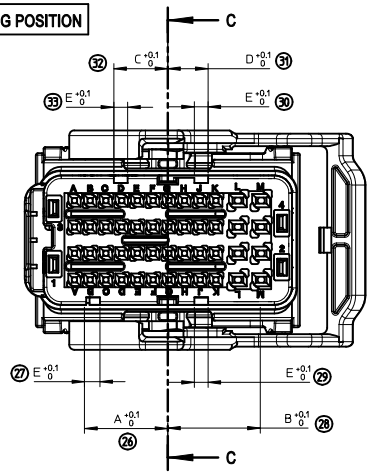


CONNECTOR OVERALL DIMENSIONS: SECONDARY LOCKING IN DELIVERY POSITION

LEFT WIRE OUTPUT

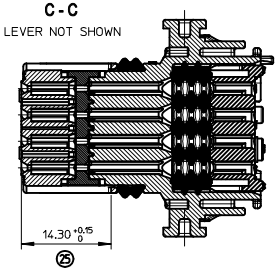


CODING POSITION



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 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	
	CP 0.6 0.75mm2	Tin plated	0643221029	Ø1.60 min / Ø1.90 Max
		Gold plated	0643221219	
L1 to L4 M1 to M4	CP 1.5 0.5mm2 to 1mm2	Tin plated	0643231029	Ø1.40 min / Ø2.15 Max
		Gold plated	0643231319	
	CP 1.5 >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

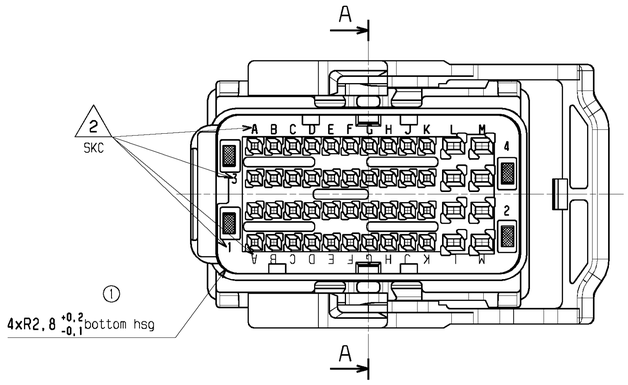
DIMENSION STYLE: MM ONLY
SCALE: 2.5:1
DESIGN UNITS: METRIC
FIRST ANGLE PROJECTION

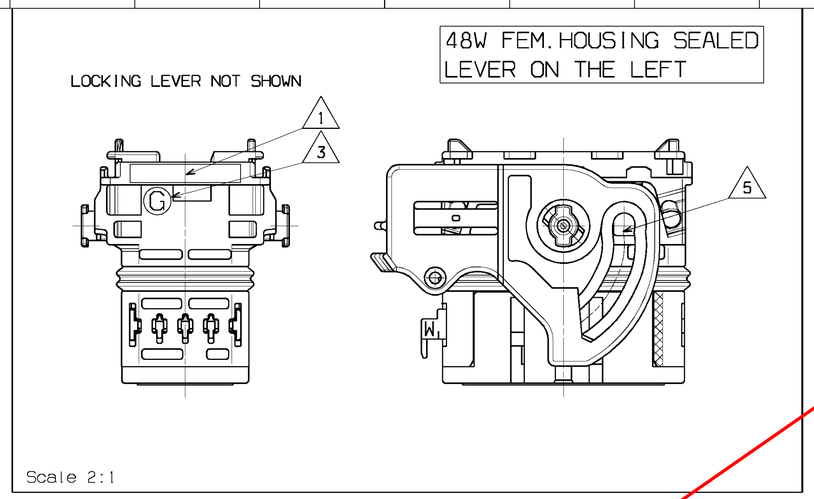
DRAWN BY: T.BADAROUX DATE: 2007/07/16
CHECKED BY: P.GRANDCLAUD DATE: 2007/07/16
APPROVED BY: C.BOUCHAN DATE: 2007/07/16
MATERIAL NO.: SEE CHART SH.2
DOCUMENT NO.: SD-64320-001
SHEET NO.: 2 OF 2
SIZE: A1

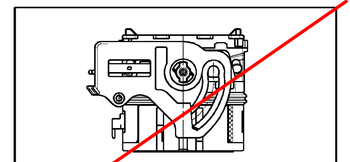
TITLE: CMC CONNECTOR 48 WAY MAT SEAL VERSION

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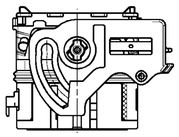






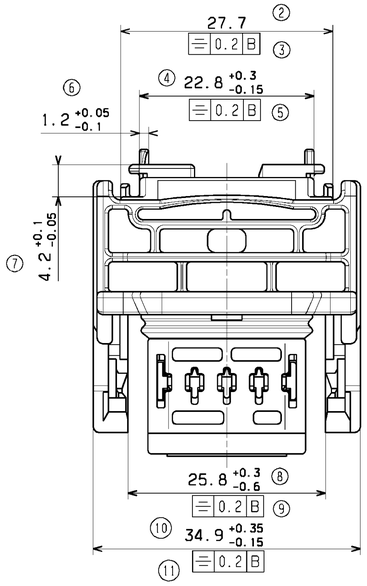
LEVER ON THE LEFT

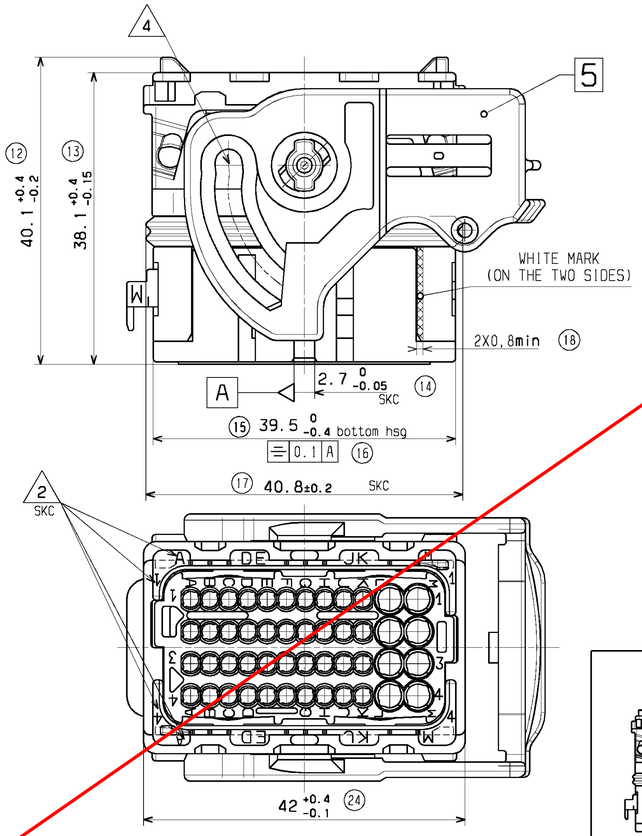
MATERIAL NUMBER	COLOR
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0643201318	GREY
0643201319	BROWN
0643201315	GREEN
	BLUE
	YELLOW

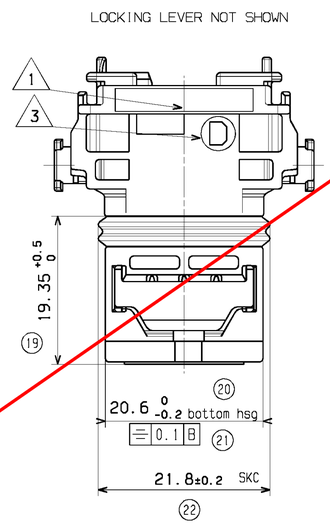


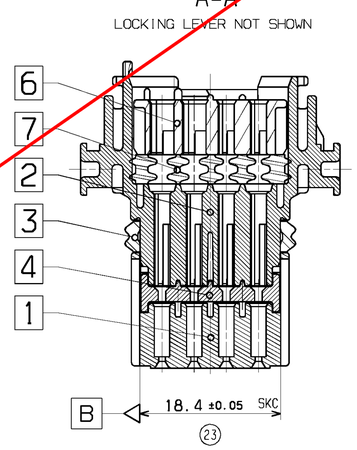
LEVER ON THE RIGHT

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







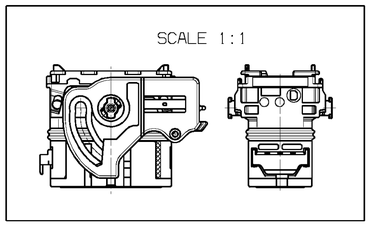


SKC: CS CHARACTERISTICS
- DENOTES S.P.C DIMENSIONS
- DENOTES CRITICAL DIMENSIONS
- DENOTES FUNCTIONAL DIMENSIONS

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 0989930328 0989930325 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

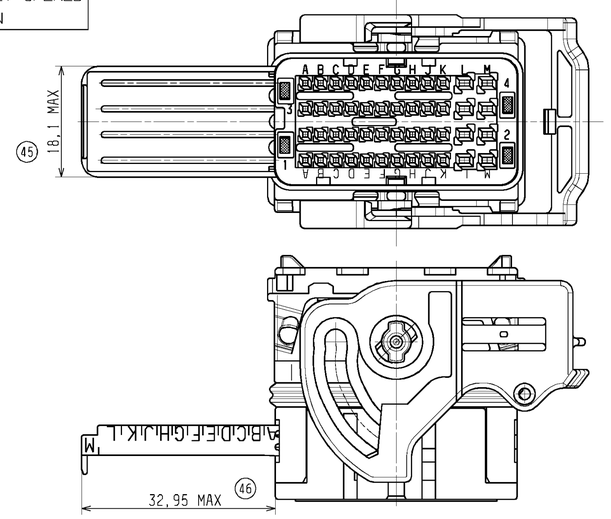
MOLEX INCORPORATED

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

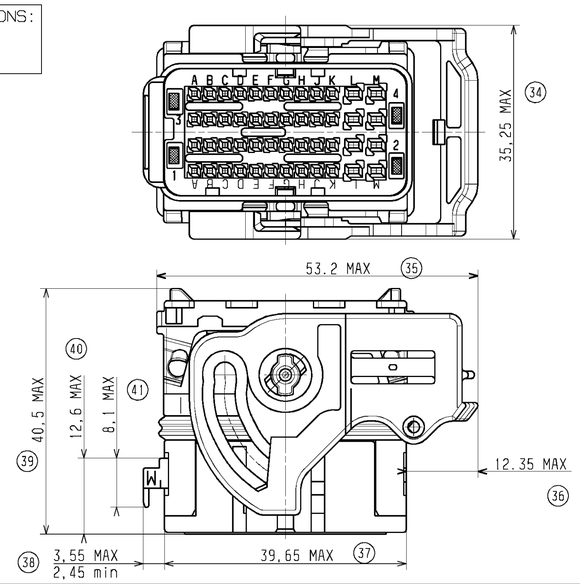
CONNECTOR OVERALL DIMENSIONS:
SECONDARY LOCKING FULLY OPENED
FOR TERMINAL INSERTION

RIGHT WIRE OUTPUT



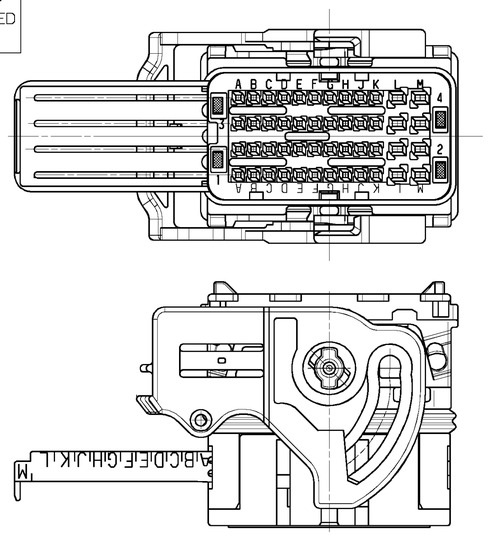
CONNECTOR OVERALL DIMENSIONS:
SECONDARY LOCKING IN
DELIVERY POSITION

RIGHT WIRE OUTPUT



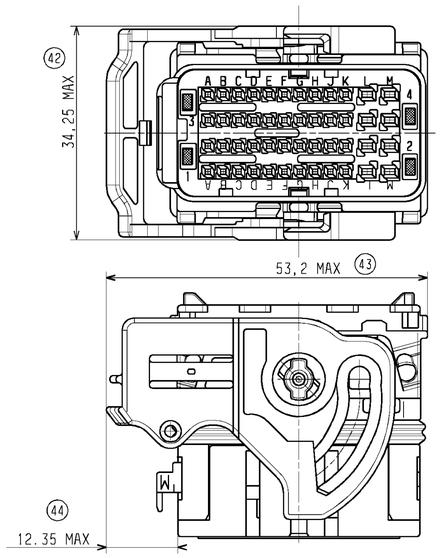
CONNECTOR OVERALL DIMENSIONS:
SECONDARY LOCKING FULLY OPENED
FOR TERMINAL INSERTION

LEFT WIRE OUTPUT

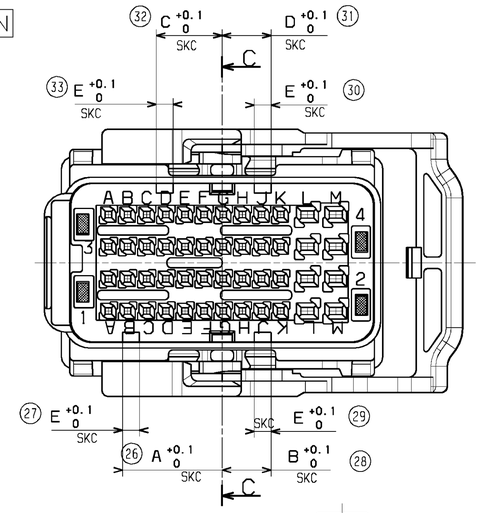


CONNECTOR OVERALL DIMENSIONS:
SECONDARY LOCKING IN
DELIVERY POSITION

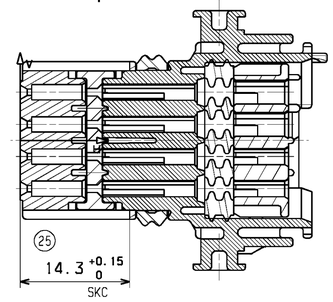
LEFT WIRE OUTPUT



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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