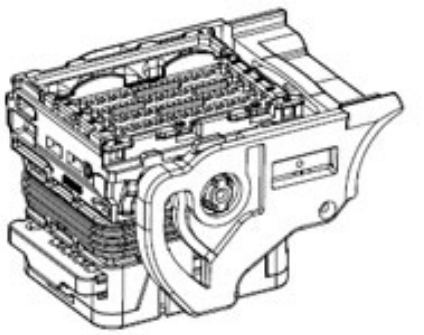
This document was generated on 05/19/2010

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: 0643193219
Status: Active
Overview: cmc_connectors
Description: .635mm (.025"), 1.50mm (.059") CMC Receptacle, 32 Circuits, Right Wire Output, Brown 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	64319
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)	32
Circuits Detail	8 x 1.5mm & 40 x 0.635mm terminals
Color - Resin	Brown
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-64319-001
Product Specification	PS-64319-001
Sales Drawing	SD-64319-001, SD-98993-001

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.

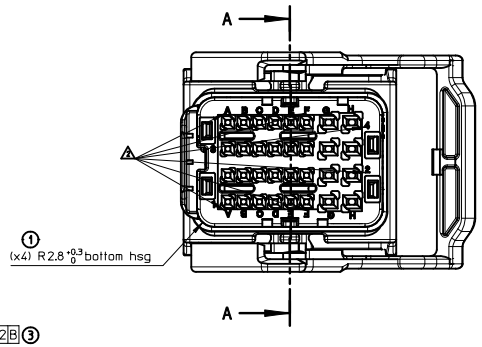
Search Parts in this Series
64319Series

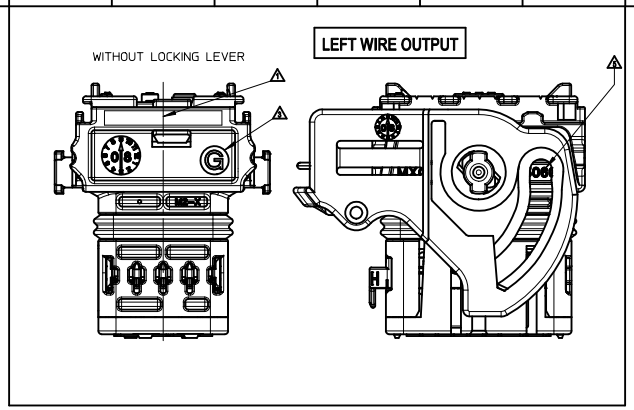
Mates With
Single 32 Circuit CMC Header - Please Contact Molex

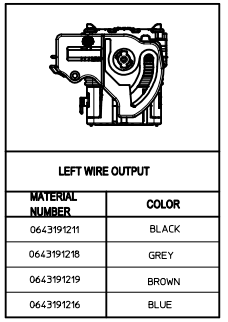
Use With
CMC CP Terminals 64322 , 64323. CMC Wire Cap 643191201. Sealing Plugs 643251010 , 643251023

This document was generated on 05/19/2010

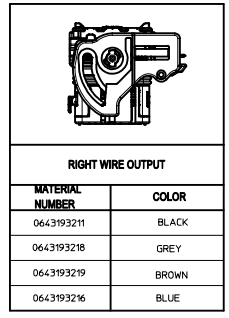
PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION



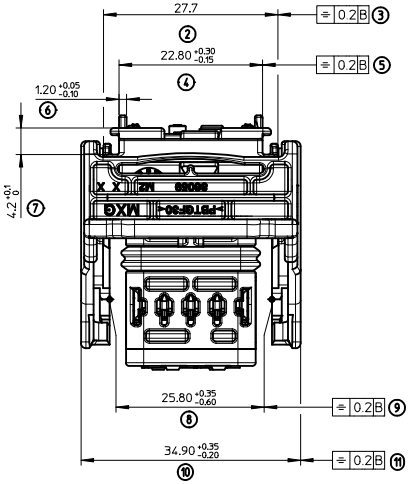


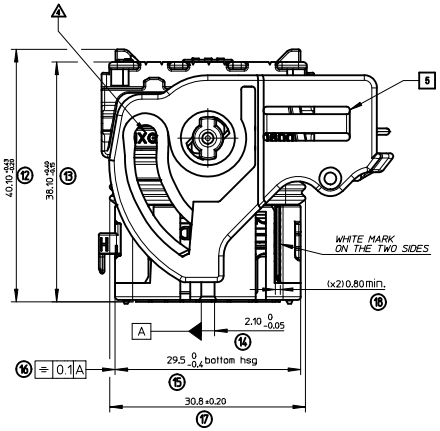


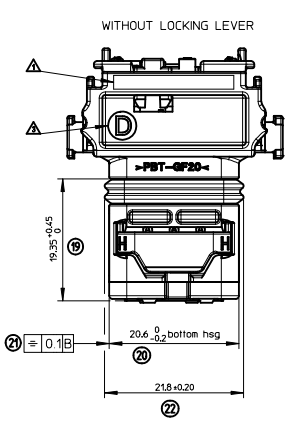
LEFT WIRE OUTPUT	
MATERIAL NUMBER	COLOR
0643191211	BLACK
0643191218	GREY
0643191219	BROWN
0643191216	BLUE

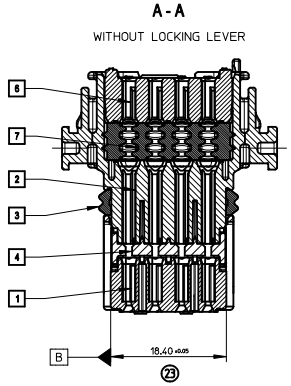


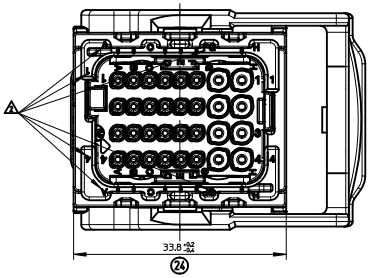
RIGHT WIRE OUTPUT	
MATERIAL NUMBER	COLOR
0643193211	BLACK
0643193218	GREY
0643193219	BROWN
0643193216	BLUE

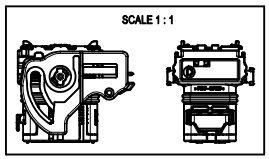












7	MAT SEAL	Silicon	GREEN
6	BACK GRID 32W	>PBT-GF20<	GREY
5	LOCKING LEVER 32W	>PBT-GF30<	BLACK
4	SECONDARY LOCK	>PBT-GF20<	GREEN
3	PERIPHERAL SEAL 32W	Silicon	BLUE
2	BACK PART	>PBT-GF20<	BLACK
1	FRONT PART	>PBT-GF20<	COLOR LINKED TO KEYING
POS.	DESIGNATION	MATERIAL	COLOR

MARKINGS :

⚠1 - Assembled part tracability:
Day + Year

⚠2 - Terminal cavities identification

⚠3 - Lever position indicator:
"D" LETTER VISIBLE = "LEVER ON THE RIGHT"
"G" LETTER VISIBLE = "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-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 Ø1.40MM MIN AND Ø2.80MM MAX

4-THE CONNECTOR FITS WITH WIRE CAP (32 WAY) MOLEX P/N 0643191201

5-BLIND PLUG FOR CP 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

UPDATED DRAWING
EC NO: DRWN:GDESBRUERES 2009/06/03
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

TITLE: CMC CONNECTOR 32 WAY MAT SEAL VERSION

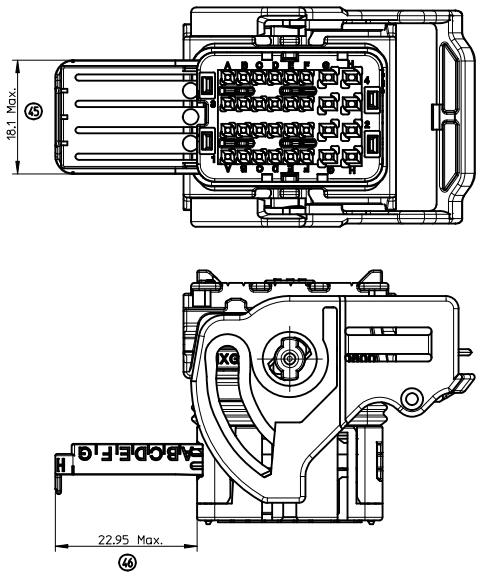
MOLEX INCORPORATED

MATERIAL NO.: SEE SHEET 2
DOCUMENT NO.: SD-64319-001
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

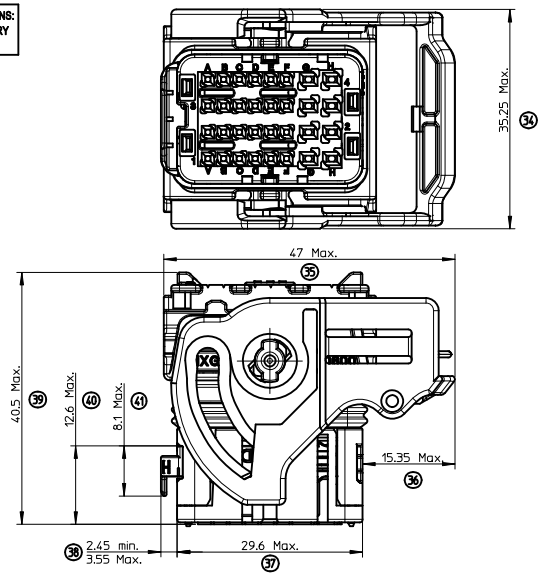
CONNECTOR OVERALL DIMENSIONS: SECONDARY LOCKING FULLY OPENED FOR TERMINALS INSERTION

RIGHT WIRE OUTPUT

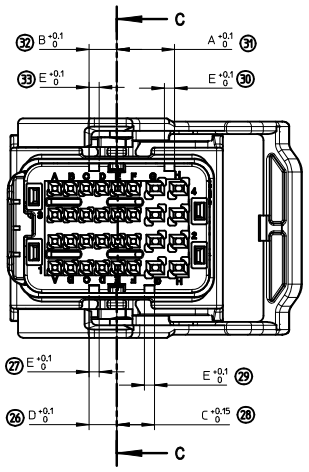


CONNECTOR OVERALL DIMENSIONS: SECONDARY LOCKING IN DELIVERY POSITION

RIGHT WIRE OUTPUT

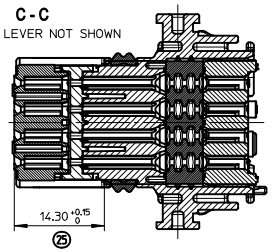


CODING POSITION



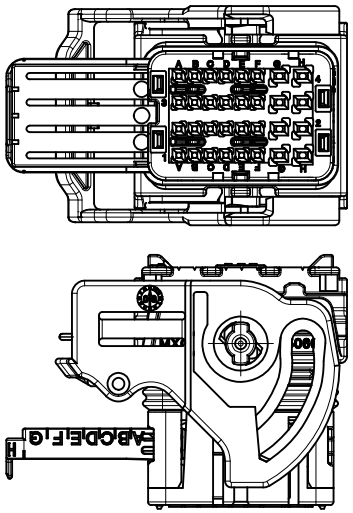
C - C

LOCKING LEVER NOT SHOWN



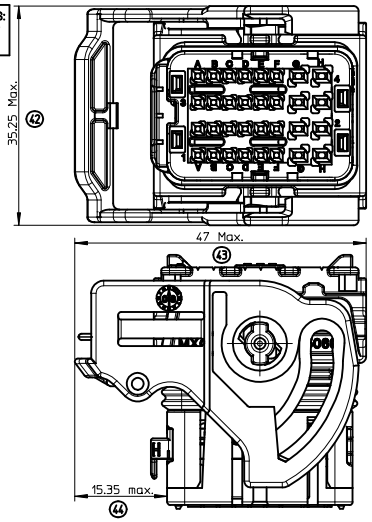
CONNECTOR OVERALL DIMENSIONS: SECONDARY LOCKING FULLY OPENED FOR TERMINALS INSERTION

LEFT WIRE OUTPUT



CONNECTOR OVERALL DIMENSIONS: SECONDARY LOCKING IN DELIVERY POSITION

LEFT WIRE OUTPUT



COLOR	CODING	A	B	C	D	E
BLACK	1	9.2	4.4	6	4.4	1.6
GREY	2	7.6	6	9.2	6	1.6
BROWN	3	6	7.6	9.2	9.2	1.6
BLUE	5	4.4	7.6	6	6	1.6

TERMINALS USED

CAVITY N°	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	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	
G1 to H4 G1 to H4	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 2009/06/03
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

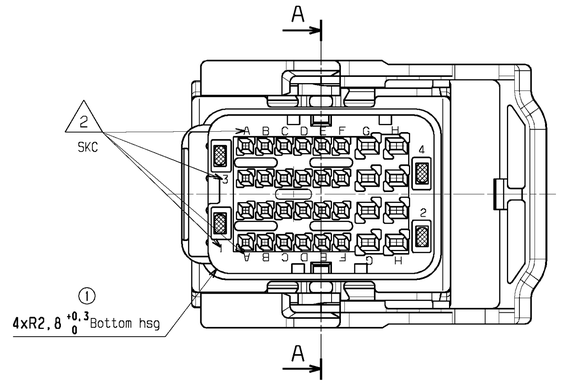
DRAWN BY: T.BADAROUX DATE: 2007/07/16
CHECKED BY: P.GRANDCLAUD DATE: 2007/07/16
APPROVED BY: C.BOUCHAN DATE: 2007/07/16
MATERIAL NO.: SEE CHART SH.2

TITLE: CMC CONNECTOR 32 WAY MAT SEAL VERSION

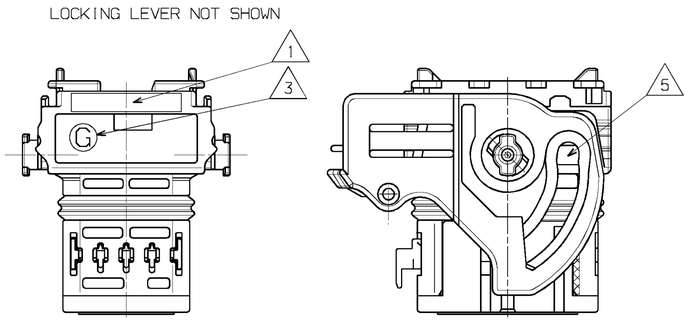
MOLEX INCORPORATED

DOCUMENT NO.: SD-64319-001
SHEET NO.: 2 OF 2
SIZE: A1

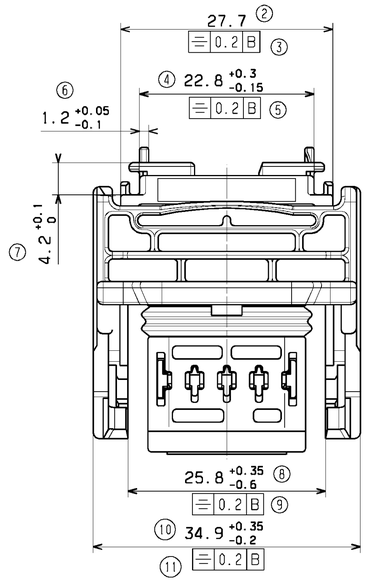
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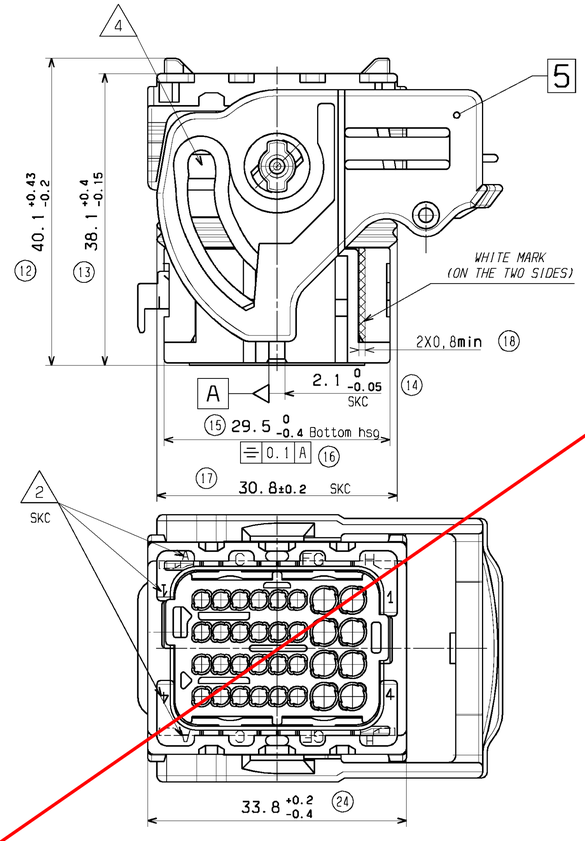


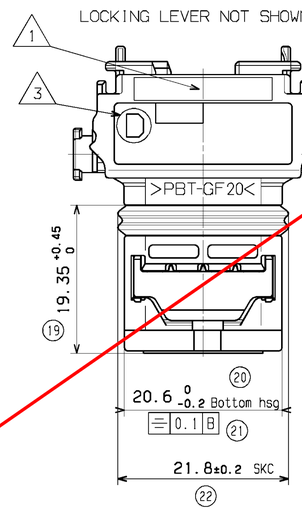
32W FEMALE HOUSING LEFT WIRE OUTPUT

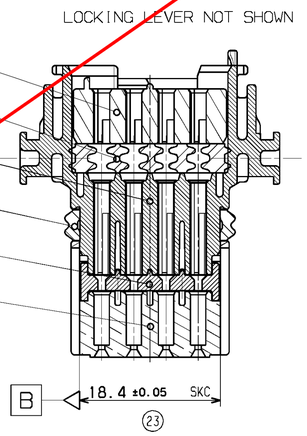


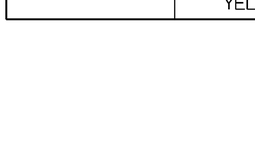
Scale 2:1



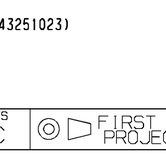








FEMALE HOUSING 32 WAY LEFT WIRE OUTPUT	
MATERIAL NUMBER	COLOR
0643191211	BLACK
0643191218	GREY
0643191219	BROWN
	GREEN
0643191216	BLUE
	YELLOW



FEMALE HOUSING 32 WAY RIGHT WIRE OUTPUT	
MATERIAL NUMBER	COLOR
0643193211	BLACK
0643193218	GREY
0643193219	BROWN
	GREEN
0643193216	BLUE
	YELLOW

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

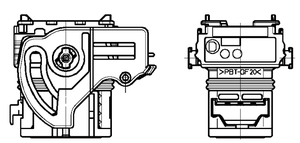
QUANTITY PER INDIVIDUAL SHEET
0 | 0 | 0 | SKC: 13

MATERIAL NUMBER	MARK	DESIGNATION	MATERIAL	COLOR
0989930295	7	MATT SEAL	SILICONE SKC	GREEN
0989930256	6	BACK GRID 32 WAYS	PBT-GF20 SKC	BLUE
0989930241	5	LOCKING LEVER SIZE 2	PBT-GF30 SKC	BLACK
0989930235	4	SECONDARY LOCK	PBT-GF20 SKC	GREEN
0986560001	3	PERIPHERAL SEAL SIZE 2	SILICONE SKC	BLUE
0989930211	2	BACK PART	PBT-GF20 SKC	BLACK
0989930221 0989930228 0989930226 0989930229	1	FRONT PART	PBT-GF20 SKC	COLOR ASSOCIATED TO KEYING

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

SCALE 1:1



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

VOID AND SUPERSEDED BY SD-64319-001 rev C

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 T2 (32WAY) MOLEX P/N 0643191201

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: 27,6 g

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 T2 32 WAY MATT SEAL VERSION

molex MOLEX INCORPORATED

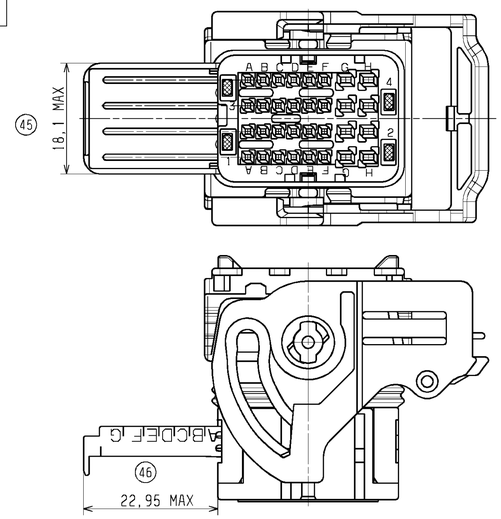
MATERIAL NO.: SEE CHART
DOCUMENT NO.: SD-98993-001
SHEET NO.: 1 OF 2

SIZE A1

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

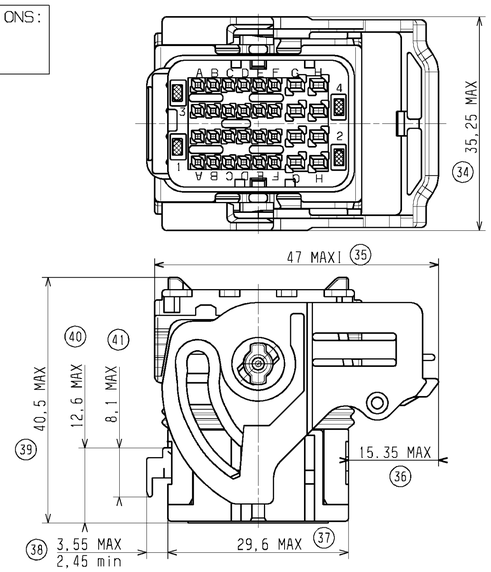
CONNECTOR OVERALL DIMENSIONS:
SECONDARY LOCKING FULLY OPENED
FOR TERMINAL INSERTION

RIGHT WIRE OUTPUT



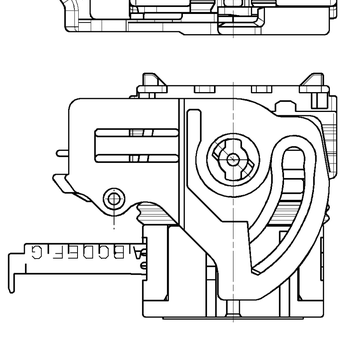
CONNECTOR OVERALL DIMENSIONS:
SECONDARY LOCKING IN
DELIVERY POSITION

RIGHT WIRE OUTPUT



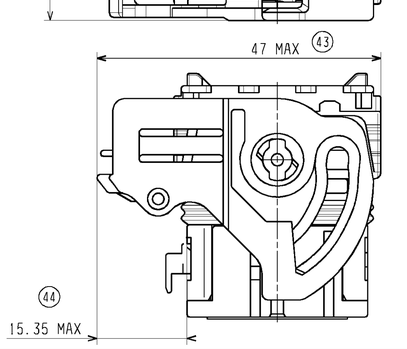
CONNECTOR OVERALL DIMENSIONS:
SECONDARY LOCKING FULLY OPENED
FOR TERMINAL INSERTION

LEFT WIRE OUTPUT

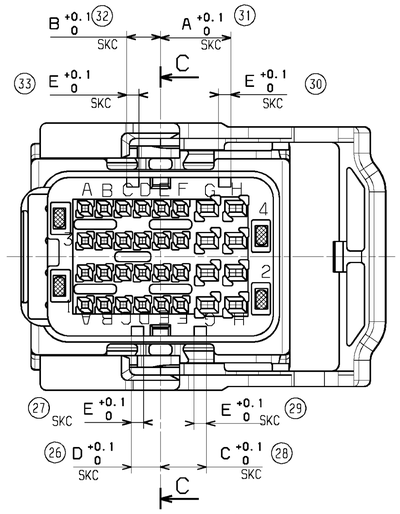


CONNECTOR OVERALL DIMENSIONS:
SECONDARY LOCKING IN
DELIVERY POSITION

LEFT WIRE OUTPUT

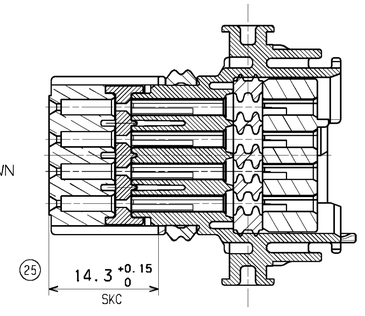


CODING POSITION



C-C

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	9,2	4,4	6	4,4	1,6
GREY	2	7,6	6	9,2	6	1,6
BROWN	3	6	7,6	9,2	9,2	1,6
GREEN	4	7,6	9,2	4,4	4,4	1,6
BLUE	5	4,4	7,6	6	6	1,6
YELLOW	6	9,2	7,6	4,4	7,6	1,6

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

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 T2 32 WAY MATT SEAL VERSION

molex MOLEX INCORPORATED

MATERIAL NO.: SEE SHEET 1
DOCUMENT NO.: SD-98993-001
SHEET NO.: 2 OF 2
SIZE: A1

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