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Part Number: [0643211011](#)
Status: **Active**
Overview: [cmc_connectors](#)
Description: .635mm (.025"), 1.50mm (.059"), 2.80mm (.110"), CMC Receptacle, 53 Circuits, Left Wire Output, Black Coding, Mat Sealed

Documents:

[3D Model](#)
[Application Specification \(PDF\)](#)
[Drawing \(PDF\)](#)
[Product Specification PS-64321-001 \(PDF\)](#)
[RoHS Certificate of Compliance \(PDF\)](#)

General

Product Family Crimp Housings
Series [64321](#)
Comments * Current tested on a fully loaded connector, current for temperature increase of 40°C. Current max = 21.0A for 2.8mm Terminal (5.0mm² wire), 12.0A for 1.5mm Terminal (2.0mm² wire), 2.5A for 0.635mm Terminal (0.75mm² wire) *

More Detailed Tech Information Sealed, high-density, power, modular connecting system for Power Train and Body Electronics applications in cars, trucks, busses

Overview [cmc_connectors](#)
Product Name CMC

Physical

Circuits (maximum) 53
Circuits Detail 5x 2.8mm, 8 x 1.5mm, 40 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 5
Packaging Type Carton
Panel Mount No
Pitch - Mating Interface (in) 0.100 In, 0.138 In, 0.276 In
Pitch - Mating Interface (mm) 2.54 mm, 3.50 mm, 7.00 mm
Polarized to Mating Part Yes
Stackable No
Temperature Range - Operating -40°C to +125°C

Electrical

Current - Maximum per Contact 12A, 2.5A, 21A

Material Info

Reference - Drawing Numbers

[Application Specification](#) AS-64321-001
[Product Specification](#) PS-64321-001
[Sales Drawing](#) SD-64321-001

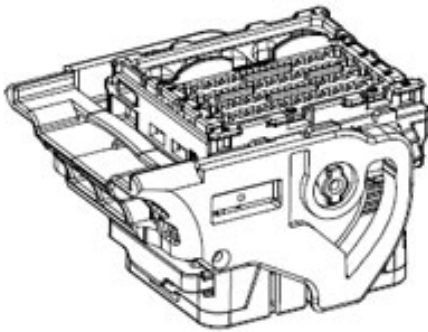


image - Reference only

Series

EU RoHS

ELV and RoHS Compliant
REACH SVHC
Not Reviewed
Halogen-Free Status

China RoHS



Not Reviewed

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

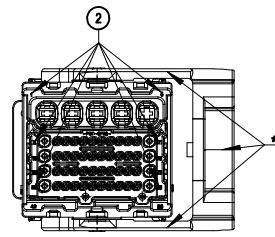
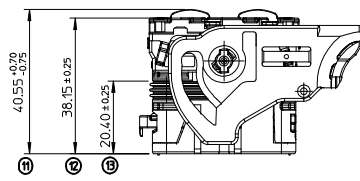
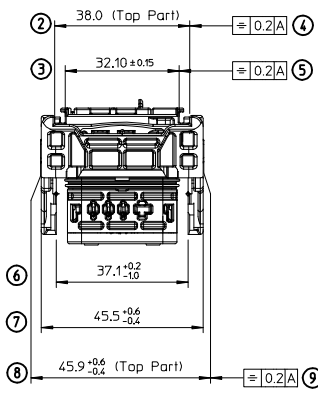
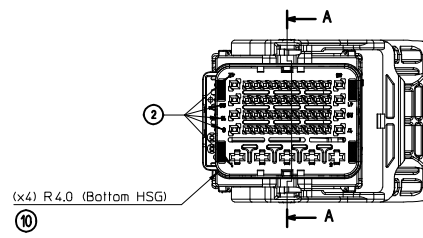
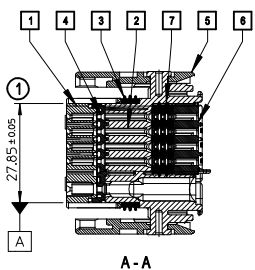
[64321Series](#)

Mates With

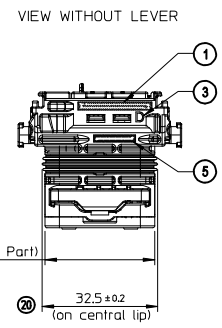
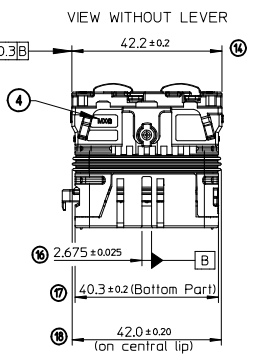
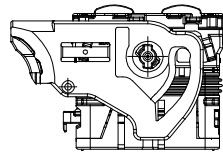
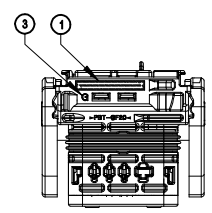
53 Circuit CMC Header 98997-1002 -
Please Contact Molex for details

Use With

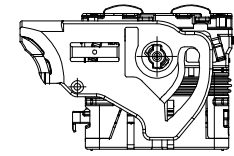
Female Terminals [64322](#) CP 0.635 (.025"), [64323](#) CP 1.5 (.059"). Circuit Way Plugs [643251010](#) , [643251023](#) , [643251091](#). CMC Wire Cap [643211101](#). Header [989971002](#) (contact Molex on Header)



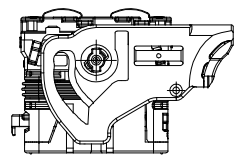
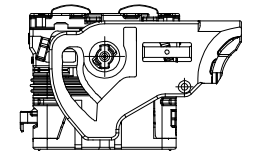
CMC 53W EQUIPED LEVER ON THE LEFT ("G" POSITION)



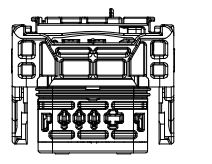
LEVER IN "G" POSITION (LEFT) (Position shown below)	
MOLEX P/N	COLOR
0643211011	BLACK
0643211018	GREY
0643211019	BROWN



LEVER IN "D" POSITION (RIGHT) (Position shown below)	
MOLEX P/N	COLOR
0643212011	BLACK
0643212018	GREY
0643212019	BROWN

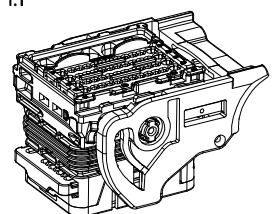
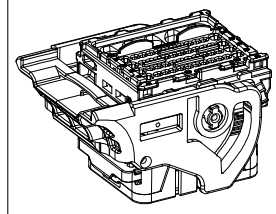


1:1



ISOMETRIC VIEWS

1:1



LEVER IN "G" POSITION (LEFT)

LEVER "D" POSITION (RIGHT)

MARKINGS:

- 1 - Tracking N° for assembled connector. (Year & Day)
- 2 - Cavities Identification (N°).
- 3 - Lever sens indicator. Visible letter "D" = Housing with lever on the RIGHT. (Lever on the opposite side of the SL Key) Visible letter "G" = Housing with lever on the LEFT. (Lever on the side of the SL Key)
- 4 - Supplier logo.
- 5 - Molex Area.

NOTES:

- 1- The represented female connector is the "D" version (Way out on the Right), Black coding.
- 2- Application Spec.: AS-64321-001
- 3- Plugs & caps used:
 - Cavities 0.6: plug: 0643251010
 - Cavities 1.5: plug: 0643251023
 - Cavities 2.8: cap: 0643251091
- 4- Weight: 50.8 g
- 5- The assembled female connector matches with the cover CMC 53W (P/N: 0643211101)

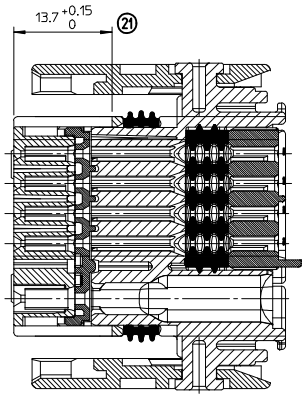
* - Clamping areas on male connector.

POS.	QTY	DESCRIPTION	MATERIAL	COLOR
7	1	BACK SEAL "GROMMET"	Silicon	ORANGE
6	1	REAR SEAL COVER	>PBT-GF20<	GREY
5	1	LOCKING LEVER R&L S4	>PBT-GF30<	BLACK
4	1	TPA	>PBT-GF20<	YELLOW
3	1	PERIMETER SEAL SIZE 4	Silicon	ORANGE
2	1	HOUSING TOP PART	>PBT-GF20<	BROWN
1	1	HOUSING BOTTOM PART	>PBT-GF20<	BLACK BROWN GREY

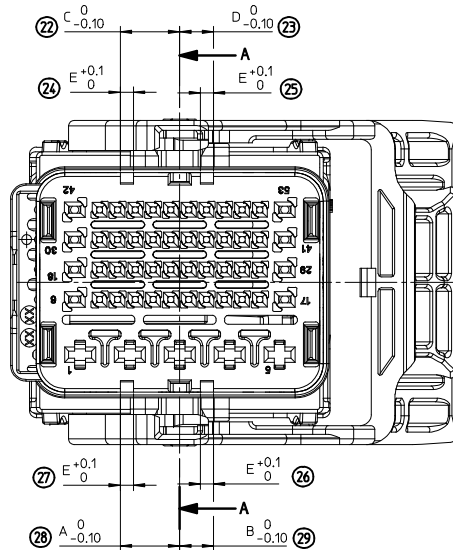
ACCORDING FPIR EC No: G2009-0092 DRAWN: GDESBRUERES 2008/10/23 CHKD: O.PLESSIS 2008/11/05 APPR: CBOULCHAN 2008/11/05	DESCRIPTION		GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 1:1	DESIGN UNITS METRIC	 FIRST ANGLE PROJECTION
				mm	INCH	DRAWN BY DATE	TITLE		
			4 PLACES	± ---	± ---	G. DESBRUERES 2007/09/05	CMC FEMALE MODULE 53W GENERIC SALES DRAWING		
			3 PLACES	± ---	± ---	CHECKED BY DATE			
			2 PLACES	± 0.05	± ---	O. PLESSIS 2007/09/06			
			1 PLACE	± 0.1	± ---	APPROVED BY DATE			
B	REV		ANGULAR ± 2 °		L. STICKEIR 2007/09/07	 MOLEX INCORPORATED			
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		MATERIAL NO.		DOCUMENT NO.	SHEET NO.	
					SEE CHARTS		SD-64321-001	1 OF 2	
					THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION				

CODINGS

FEMALE HOUSING WITH THE LEVER ON "D" (RIGHT) POSITION.



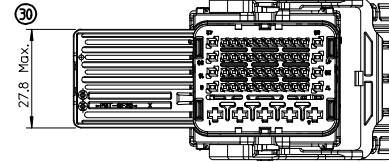
B - B
2:1



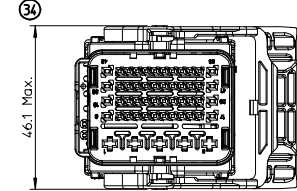
COLOR	CODING	A _{-0.1} ⁰	B _{-0.1} ⁰	C _{-0.1} ⁰	D _{-0.1} ⁰	E _{-0.1} ^{+0.1}
BLACK	1	8.4	4.8	8.4	4.8	1.8
GREY	2	8.4	6.6	6.6	6.6	1.8
BROWN	3	8.4	8.4	4.8	10.2	1.8

MODULE OVERALL DIMENSIONS:

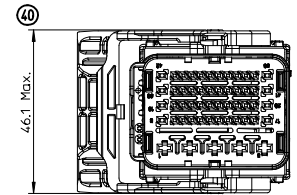
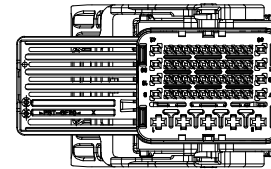
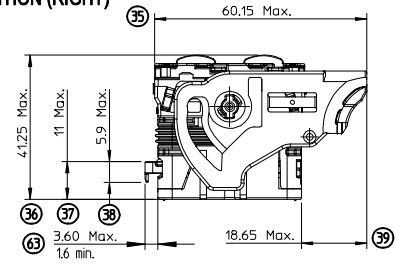
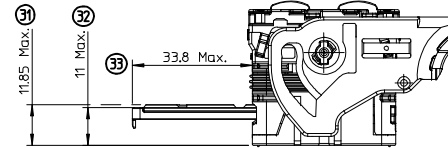
TPA: UNLOCKED POSITION



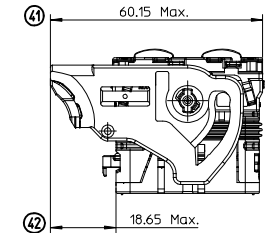
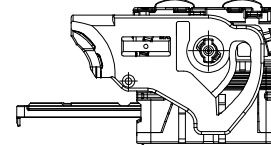
TPA: DELIVERY POSITION



LEVER IN "D" POSITION (RIGHT)



LEVER IN "G" POSITION (LEFT)



TERMINALS' P/N(S)

CAVITIES N°	FEMALE TERMINALS (Section mm2)	PLATING	MOLEX P/N	WIRE SEAL	min / MAX WIRE INSULATION DIAMETER
7 to 16 19 to 28 31 to 40 43 to 52	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		
6, 17, 18 29, 30, 41 42, 53	CP 1.5 (0.5mm2 to 1mm2)	Tin plated	0643231029		Ø1.45 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		
	CP 2.8 (>0.5mm2 to 1mm2)	Tin plated	0643241049	0643251162	Ø1.40 min. / Ø2.15 Max.
		Gold plated	0643241149		
1 to 5	CP 2.8 (>1mm2 to 2mm2)	Tin plated	0643241039	0643251175	Ø2.10 min. / Ø2.80 Max.
		Gold plated	0643241139		
	CP 2.8 (>2mm2 to 3mm2)	Tin plated	0643241029	0643251188	Ø2.65 min. / Ø3.45 Max.
		Gold plated	0643241129		
	CP 2.8 (>3mm2 to 5mm2)	Tin plated	0643241019	0643251196	Ø3.40 min. / Ø4.00 Max.
		Gold plated	0643241119		

ACCORDING FPIR EC NO: G2009-0092 DRAWN: G. DESBRUERES 2008/10/23 CHKD: O. PLESSIS 2008/11/05 APPR: C. BOUCHAN 2008/11/05	DESCRIPTION		GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 1.5:1	DESIGN UNITS METRIC	FIRST ANGLE PROJECTION	
				mm	INCH	DRAWN BY G. DESBRUERES 2007/09/05	DATE	TITLE CMC FEMALE MODULE 53W GENERIC SALES DRAWING		
			4 PLACES	± ---	± ---	CHECKED BY O. PLESSIS 2007/09/06	DATE	MOLEX INCORPORATED		
			3 PLACES	± ---	± ---					
			2 PLACES	± 0,05	± ---	APPROVED BY L. STICKEIR 2007/09/07	DATE	DOCUMENT NO. SD-64321-001		
			1 PLACE		± 0.1	± ---	MATERIAL NO. SEE SHEET 1		SHEET NO. 2 OF 2	
			ANGULAR		± 2 °					
B	REV		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SIZE A2	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION				