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Part Number: [0643212018](#)
Status: **Active**
Overview: [cmc_connectors](#)
Description: .635mm (.025"), 1.50mm (.059"), 2.80mm (.110"), CMC Receptacle, 53 Circuits, Right Wire Output, Gray 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 Gray
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

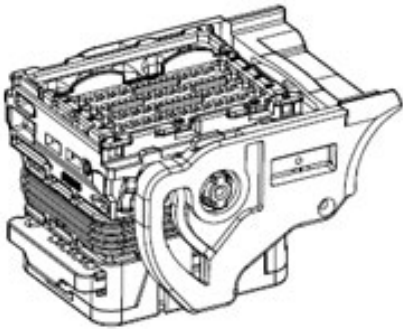


image - Reference only

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

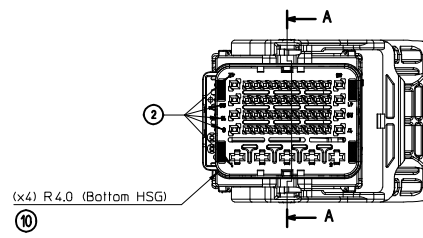
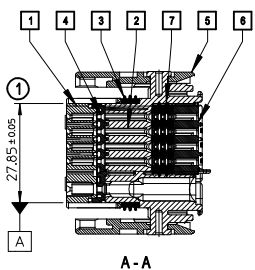
[64321Series](#)

Mates With

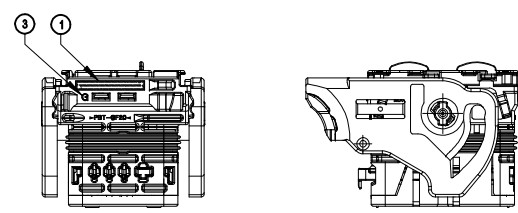
53 Circuit CMC Header 98997-1002 -
Please Contact Molex for details

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)

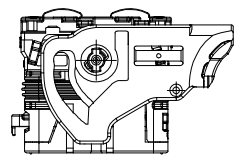
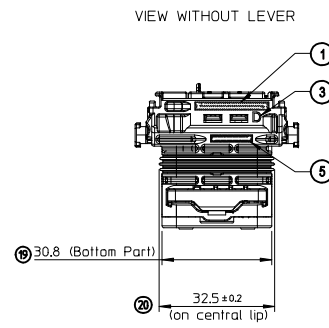
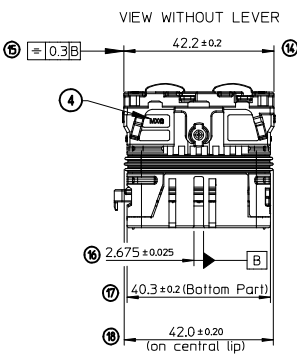
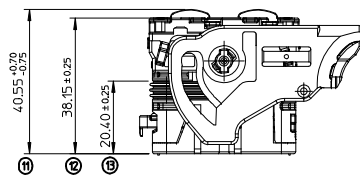
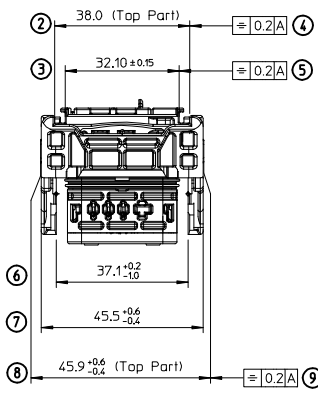
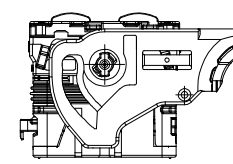
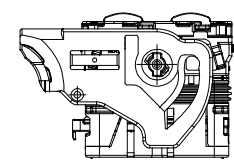


CMC 53W EQUIPED LEVER ON THE LEFT ("G" POSITION)

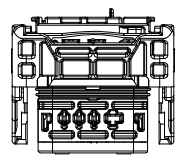


LEVER IN "G" POSITION (LEFT) (Position shown below)	
MOLEX P/N	COLOR
0643211011	BLACK
0643211018	GREY
0643211019	BROWN

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

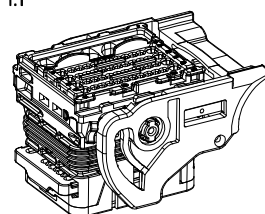
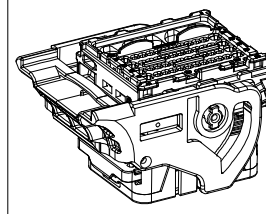


1:1



ISOMETRIC VIEWS

1:1



LEVER "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)

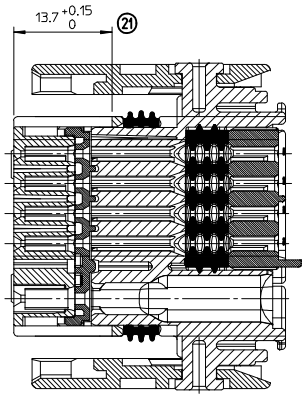
* - Clamping areas on male connector.

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

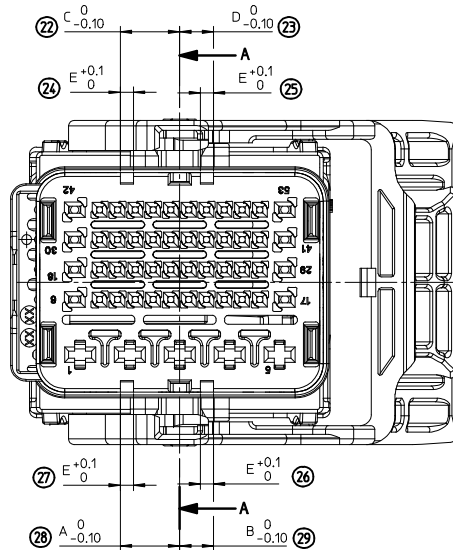
ACCORDING FPIR EC NO: G2009-0092 DRAWN: G. DESBRUERES 2008/10/23 CHKD: O. PLESSIS 2008/11/05 APPR: C. BOULCHAN 2008/11/05	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 1:1	DESIGN UNITS METRIC	 FIRST ANGLE PROJECTION	
			mm	INCH	DRAWN BY G. DESBRUERES	DATE 2007/09/05	TITLE CMC FEMALE MODULE 53W GENERIC SALES DRAWING		
		4 PLACES	± ---	± ---	CHECKED BY O. PLESSIS	DATE 2007/09/06			
		3 PLACES	± ---	± ---	APPROVED BY L. STICKEIR	DATE 2007/09/07	MOLEX INCORPORATED		
		2 PLACES	± 0.05	± ---	MATERIAL NO. SEE CHARTS				
		1 PLACE	± 0.1	± ---	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

CODINGS

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



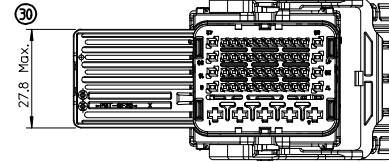
B - B
2:1



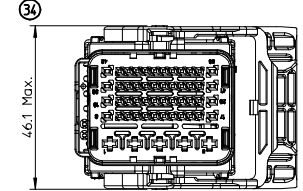
COLOR	CODING	A ⁰ _{-0.1}	B ⁰ _{-0.1}	C ⁰ _{-0.1}	D ⁰ _{-0.1}	E ^{+0.1} ₀
BLACK	1	8.4	4.8	8.4	4.8	1.8
GREY	2	8.4	6.6	6.6	6.6	1.8
BROWN	3	8.4	8.4	4.8	10.2	1.8

MODULE OVERALL DIMENSIONS:

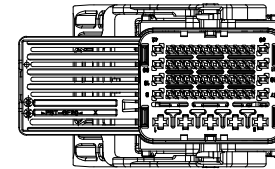
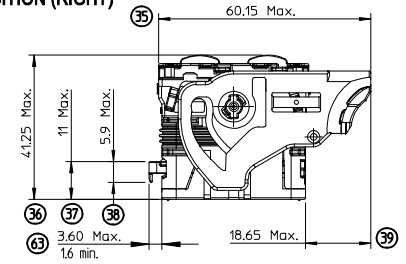
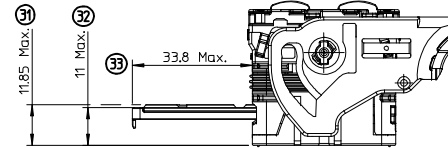
TPA: UNLOCKED POSITION



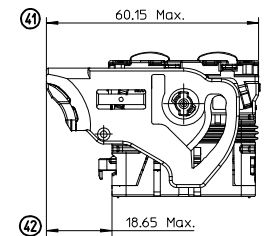
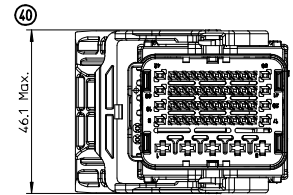
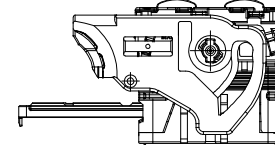
TPA: DELIVERY POSITION



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		

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			mm	INCH	DRAWN BY G. DESBRUERES 2007/09/05	DATE 2007/09/05	TITLE CMC FEMALE MODULE 53W GENERIC SALES DRAWING		
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		3 PLACES	± ---	± ---	APPROVED BY L. STICKEIR 2007/09/07	DATE 2007/09/07			
		2 PLACES	± 0.05	± ---	MATERIAL NO. SEE SHEET 1		DOCUMENT NO. SD-64321-001	SHEET NO. 2 OF 2	
		1 PLACE	± 0.1	± ---	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				
ANGULAR ± 2 °									

B	REV	SIZE A2	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION
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