



# APPLICATION SPECIFICATION

## POWER CMC HYBID CONNECTORS

### CIRCUIT SIZES: 22, 28 AND 53



CMC Connectors 22, 28 and 53-circuits, 64326, 64318 and 64321 series



CP Terminals 0.6mm, 1.5mm and 2.8mm, 64322, 64323 and 64324 series

REVISION: <b>D</b>	ECR/ECN INFORMATION: EC No: <b>G2013-0246</b> DATE: <b>2013 / 02 / 15</b>	TITLE: <b>APPLICATION SPECIFICATION POWER CMC 22-28 and 53 Circuits SEAL VERSION</b>	SHEET No. <b>1 of 9</b>
DOCUMENT NUMBER: <b>AS-64318-002</b>	CREATED / REVISED BY: <b>P.GOURBIN</b>	CHECKED BY: <b>C.BOUCHAN</b>	APPROVED BY: <b>O.PLESSIS</b>



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Revision	MODIFICATION	SHEET	Date YYYY/MM/DD
A	First edition. (Replace AS-64326-001 / AS-64318-001 / AS-64321-001).	All	2011/08/30
B	Single Wire Seal drawing P/N, wire seal P/N, P/N, Wire length inside connector, Twisted wire, closing TPA Force.	6/10/13/15/ 24/26	2011/11/25
C	New part for pogo pin test pen	38	2012/04/04
D	2 documents: 1 for P/N and 1 for how to use	All	2013/02/15

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DOCUMENT NUMBER: <b>AS-64318-002</b>	CREATED / REVISED BY: <b>P.GOURBIN</b>	CHECKED BY: <b>C.BOUCHAN</b>	APPROVED BY: <b>O.PLESSIS</b>



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## TABLE OF CONTENTS

### 1.0 PRESENTATION

- 1.1 PRODUCT INTRODUCTION
- 1.2 OVERVIEW
- 1.3 AVAILABLE DOCUMENTS
- 1.4 PART NUMBER

REVISION: <b>D</b>	ECR/ECN INFORMATION: EC No: <b>G2013-0246</b> DATE: <b>2013 / 02 / 15</b>	TITLE: <b>APPLICATION SPECIFICATION POWER CMC 22-28 and 53 Circuits SEAL VERSION</b>	SHEET No. <b>3 of 9</b>
DOCUMENT NUMBER: <b>AS-64318-002</b>	CREATED / REVISED BY: <b>P.GOURBIN</b>	CHECKED BY: <b>C.BOUCAN</b>	APPROVED BY: <b>O.PLESSIS</b>



# APPLICATION SPECIFICATION

## 1.0 PRESENTATION

### 1.1 PRODUCT INTRODUCTION

Power CMC Connectors are a wire-to-board connection system.

**Key features of CMC connectors are:**

**Sealed** → High performing matte seal and single wire seal




**High-density** → Fine pitch size for compact PCB design

**Hybrid** → 3 different terminal sizes used CP 0.6, CP 1.5 and CP 2.8mm

**Modular** → Different numbers of circuit sizes, color coding and 2 wire output orientations are available

Power CMC Connectors are to be used with Molex CP Terminals CP 0.6mm, CP1.5mm and CP 2.8mm, series 64322, 64323 and series 64324.

**Overview of power CMC Connector interfaces in Standard Version using CP 0.6, CP 1.5 and CP 2.8mm:**

Connectors	22 ckt	28 ckt	53 ckt
0.6 mm CP (pcs)	20	18	40
1.5 mm CP (pcs)	0	5	8
2.8 mm CP (pcs)	2	5	5
Existing colors coding	Blk, Ble, Brn	Blk, Gry, Brn	Blk, Gry, Brn, Grn
Product Series	Yes	Yes	Yes
Connector interface			

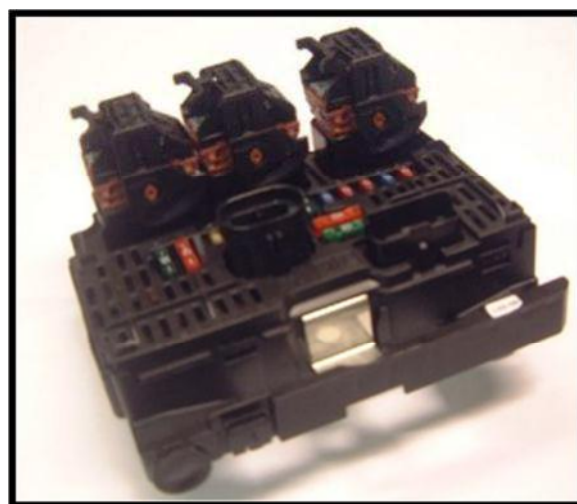
REVISION: <b>D</b>	ECR/ECN INFORMATION: EC No: <b>G2013-0246</b> DATE: <b>2013 / 02 / 15</b>	TITLE: <b>APPLICATION SPECIFICATION POWER CMC 22-28 and 53 Circuits SEAL VERSION</b>	SHEET No. <b>4 of 9</b>
DOCUMENT NUMBER: <b>AS-64318-002</b>	CREATED / REVISED BY: <b>P.GOURBIN</b>	CHECKED BY: <b>C.BOUCHAN</b>	APPROVED BY: <b>O.PLESSIS</b>



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## Power CMC Application examples:

- Engine control unit
- Automatic gear box
- Suspension controller
- Parking brake
- Fuse box
- Electric doors



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DOCUMENT NUMBER: <b>AS-64318-002</b>	CREATED / REVISED BY: <b>P.GOURBIN</b>	CHECKED BY: <b>C.BOUCHAN</b>	APPROVED BY: <b>O.PLESSIS</b>



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## 1.2 OVERVIEW



53-circuits CMC Connector, 64321, brown color coding, wire cap and seal plug for 0.60, 1.50 and 2.80mm cavity

## 1.3 AVAILABLE DOCUMENTS

### Operating conditions

Product specifications 22 circuits	PS-64326-001
Product specifications 28 circuits	PS-64318-001
Product specifications 53 circuits	PS-64321-001

### Application specification (how to use)

English	AS-98420-001
French	AS-98420-001-FR
Spanish	AS-98420-001-SP

### Connector drawings

22 circuits	SD-64326-001
28 circuits	SD-64318-001
53 circuits	SD-64321-001

### Wire cap drawings

22 circuits	SD-64319-002
28 circuits	SD-64320-002
53 circuits	SD-64321-002

### Packaging

22 circuits	PK-98835-001
28 circuits	PK-98994-001
53 circuits	PK-98995-001

### Terminal drawings

CP0.6 for 0.635 x 0.635 pin	SD-64322-001
CP0.6 HP for 0.635 x 0.635 pin	SD-64322-002
CP1.5 for 1.5 x 0.8 tab	SD-64323-001
CP2.8 for 2.8 x 0.8 tab	SD-64324-001

### Crimp specifications

CP0.6 for 0.635 x 0.635 pin	AS-64322-001
CP1.5 for 1.5 x 0.8 tab	AS-64323-001
CP2.8 for 2.8 x 0.8 tab	AS-64324-001

### Plug and single wire seal drawings

Cavity 0.60mm	SD-64325-001
Cavity 1.50mm	SD-64325-002
Cavity 2.80mm (Plug)	SD-64325-004
Cavity 2.80mm (SWS)	SD-64325-006

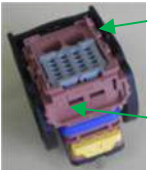
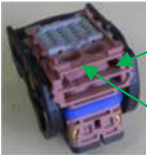
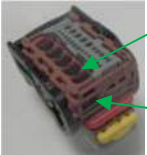

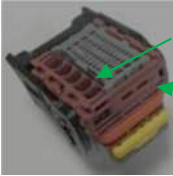
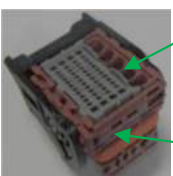
All drawings and prints can be found at [www.molex.com](http://www.molex.com)

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DOCUMENT NUMBER: <b>AS-64318-002</b>	CREATED / REVISED BY: <b>P.GOURBIN</b>	CHECKED BY: <b>C.BOUCHAN</b>	APPROVED BY: <b>O.PLESSIS</b>



# APPLICATION SPECIFICATION

## 1.4 PART NUMBER




DESCRIPTION		MOLEX P/N	COLOR
<b>CONNECTOR</b>			
 <p>CP 2.8 20 X 0.6 2 X 2.8</p> <p>D</p>	<p>22 circuits wire output</p> <p>D</p>	064326-1001	Black
		064326-1005	Brown
		064326-1009	Blue
 <p>CP 2.8 20 X 0.6 2 X 2.8</p> <p>G</p>	<p>22 circuits wire output</p> <p>G</p>	064326-1002	Black
		064326-1006	Brown
		064326-1010	Blue
 <p>CP 2.8 18 X 0.6 5 X 1.5 5 X 2.8</p> <p>D</p>	<p>28 circuits wire output</p> <p>D</p>	064318-3011	Black
		064318-3019	Brown
		064318-3018	Grey
 <p>CP 2.8 18 X 0.6 5 X 1.5 5 X 2.8</p> <p>G</p>	<p>28 circuits wire output</p> <p>G</p>	064318-1011	Black
		064318-1019	Brown
		064318-1018	Grey
 <p>CP 2.8 40 X 0.6 8 X 1.5 5 X 2.8</p> <p>D</p>	<p>53 circuits wire output</p> <p>D</p>	064321-2011	Black
		064321-2019	Brown
		064321-2018	Grey
		064321-2015	Green
 <p>CP 2.8 40 X 0.6 8 X 1.5 5 X 2.8</p> <p>G</p>	<p>53 circuits wire output</p> <p>G</p>	064321-1011	Black
		064321-1019	Brown
		064321-1018	Grey
		064321-1015	Green

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REVISION: <b>D</b>	ECR/ECN INFORMATION: EC No: <b>G2013-0246</b> DATE: <b>2013 / 02 / 15</b>	TITLE: <b>APPLICATION SPECIFICATION POWER CMC 22-28 and 53 Circuits SEAL VERSION</b>	SHEET No. <b>7 of 9</b>
DOCUMENT NUMBER: <b>AS-64318-002</b>	CREATED / REVISED BY: <b>P.GOURBIN</b>	CHECKED BY: <b>C.BOUCHAN</b>	APPROVED BY: <b>O.PLESSIS</b>



# APPLICATION SPECIFICATION

DESCRIPTION	MOLEX P/N	COLOR	
<b>WIRE CAP</b>			
	22 circuits	064319-1201	Black
	28 circuits	064320-1301	Black
	53 circuits	064321-1101	Black

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DESCRIPTION	TOOL	INSULATION Min. / MAX. (mm)	MOLEX P/N	PLATING COLOR	
<b>TERMINAL, PLUG AND SINGLE WIRE SEAL</b>					
	CP 0.6 0.35 mm <sup>2</sup>  CP 0.6 0.5 mm <sup>2</sup>  CP 0.6 0.75 mm <sup>2</sup>		1.25 / 1.40	064322-1019 064322-1229 064322-1349 HP	Tin Gold Gold
			1.40 / 1.70	064322-1039 064322-1239 064322-1359 HP	Tin Gold Gold
			1.60 / 1.90	064322-1029 064322-1219 064322-1339 HP	Tin Gold Gold
	0.6 plug	-	-	064325-1010	White
	CP 1.5 * 0.5 to 1.0 mm <sup>2</sup>  CP 1.5 1.5 to 2.0 mm <sup>2</sup>		1.40 / 2.15	064323-1029 064323-1319	Tin Gold
			1.20 / 2.80	064323-1039 064323-1219	Tin Gold
	1.5 plug	-	-	064325-1023	Orange
	CP 2.8 0.5 to 1.0 mm <sup>2</sup>  Single wire seal		1.40 / 2.15	064324-1049 064324-1149	Tin Gold
				064325-1332	Red
	CP 2.8 1.5 to 2.0 mm <sup>2</sup>  Single wire seal		2.10 / 2.80	064324-1039 064324-1139	Tin Gold
				064325-1345	Green
	CP 2.8 2.5 to 3.0 mm <sup>2</sup>  Single wire seal		2.65 / 3.45	064324-1029 064324-1129	Tin Gold
				064325-1358	Grey
	CP 2.8 4.0 to 5.0 mm <sup>2</sup>  Single wire seal		3.40 / 4.00	064324-1019 064324-1119	Tin Gold
				064325-1366	Blue
	2.8 plug		-	064325-1091	Black

(\*) CAUTION: 0.5 mm<sup>2</sup> ID and IR wire are prohibited on CP 1.5 terminal grommet version connectors 28 and 53 ways

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