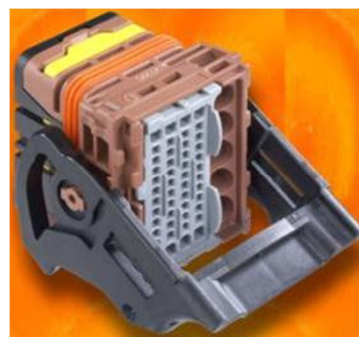




APPLICATION SPECIFICATION

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

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APPLICATION SPECIFICATION

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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APPLICATION SPECIFICATION

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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.

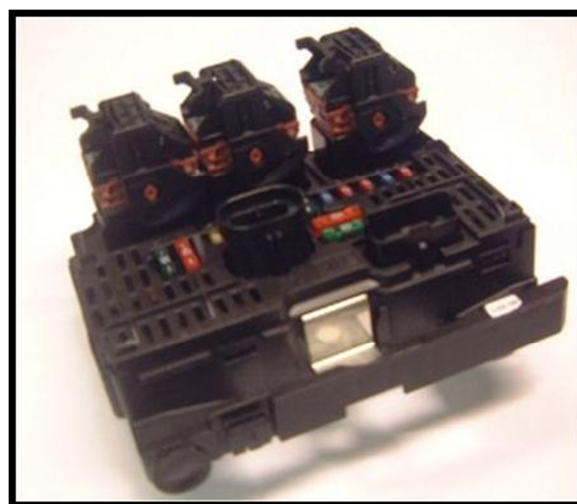
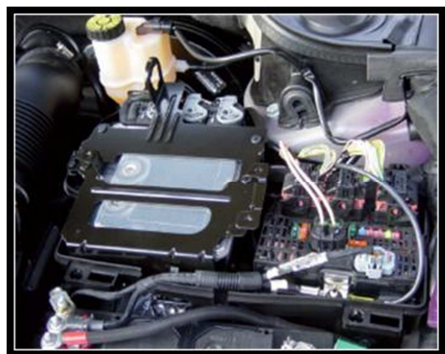
Overview of power CMC Connector interfaces in Standard Version using CP 0.6, CP 1.5 and CP 2.8mm:

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			

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Power CMC Application examples:

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

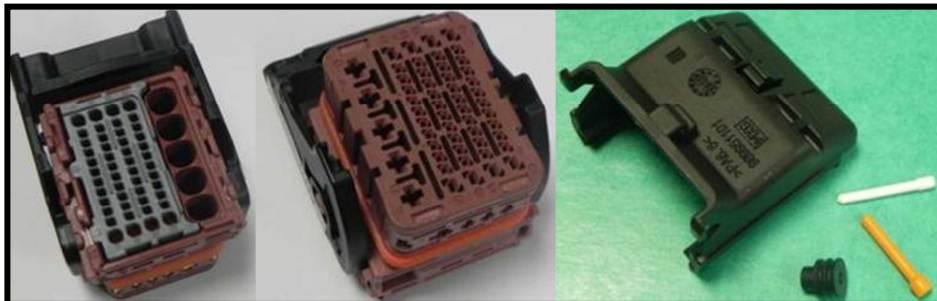


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APPLICATION SPECIFICATION

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

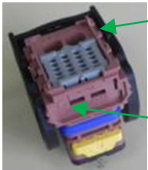
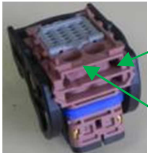
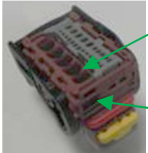
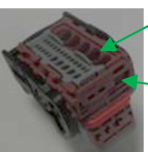
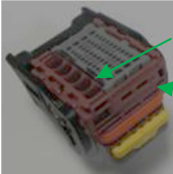
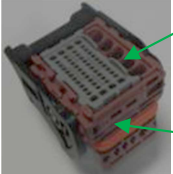
All drawings and prints can be found at www.molex.com

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APPLICATION SPECIFICATION

1.4 PART NUMBER

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

To order please contact your Molex Sales Representative or check www.molex.com

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APPLICATION SPECIFICATION

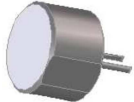
DESCRIPTION	MOLEX P/N	COLOR
WIRE CAP		
	22 circuits 064319-1201	Black
	28 circuits 064320-1301	Black
	53 circuits 064321-1101	Black

To order please contact your Molex Sales Representative or check www.molex.com

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APPLICATION SPECIFICATION

DESCRIPTION		TOOL	INSULATION Min. / MAX. (mm)	MOLEX P/N	PLATING COLOR
TERMINAL, PLUG AND SINGLE WIRE SEAL					
	CP 0.6 0.35 mm²	063813-2400 	1.25 / 1.40	064322-1019 064322-1229 064322-1349 HP	Tin Gold Gold
	CP 0.6 0.5 mm²		1.40 / 1.70	064322-1039 064322-1239 064322-1359 HP	Tin Gold Gold
	CP 0.6 0.75 mm²		1.60 / 1.90	064322-1029 064322-1219 063422-1339 HP	Tin Gold Gold
	0.6 plug	-	-	064325-1010	White
	CP 1.5 * 0.5 to 1.0 mm²	063813-2300 	1.40 / 2.15	064323-1029 064323-1319	Tin Gold
	CP 1.5 1.5 to 2.0 mm²		1.20 / 2.80	064323-1039 064323-1219	Tin Gold
	1.5 plug	-	-	064325-1023	Orange
	CP 2.8 0.5 to 1.0 mm²	063813-2500 	1.40 / 2.15	064324-1049 064324-1149	Tin Gold
	Single wire seal			064325-1332	Red
	CP 2.8 1.5 to 2.0 mm²		2.10 / 2.80	064324-1039 064324-1139	Tin Gold
	Single wire seal			064325-1345	Green
	CP 2.8 2.5 to 3.0 mm²		2.65 / 3.45	064324-1029 064324-1129	Tin Gold
	Single wire seal			064325-1358	Grey
	CP 2.8 4.0 to 5.0 mm²		3.40 / 4.00	064324-1019 064324-1119	Tin Gold
	Single wire seal			064325-1366	Blue
	2.8 plug	063813-6400 	-	064325-1091	Black

(*) CAUTION: 0.5 mm² ID and IR wire are prohibited on CP 1.5 terminal grommet version connectors 28 and 53 ways

To order please contact your Molex Sales Representative or check www.molex.com

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