



CMC Hybrid Connectors Circuit sizes: 24/32, 36/48



CMC Connectors 32- and 48-circuits, 64319 and 64320 series



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

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<u>DOCUMENT NUMBER:</u> AS-64319-002	<u>CREATED / REVISED BY:</u> O.PLESSIS	<u>CHECKED BY:</u> P.GOURBIN	<u>APPROVED BY:</u> C.BOUCAN
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APPLICATION SPECIFICATION

Revision	Modification	Sheet	Date
A	First Edition	All	2011/07/13
B	Wire output information, P/N, TXL wire length inside connector, opening TPA, terminal loading, Twisted wire, closing TPA Force, Test fixture, tool part number	7/10/14/17/19/ 21/23/32/33	2012/10/17
C	New version with AS-98420-002, AS-98420-002-FR, AS-98420-002-CH, AS-98420-002-SP which describe how to use the product	All	2013/04/05
D	Doc. AS-64319-002-FR, -CH and -SP updated: Number of Application specification (how to use) corrected.	5	2015/02/10

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APPLICATION SPECIFICATION

1.0 PRESENTATION

1.1 PRODUCT INTRODUCTION

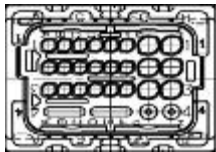
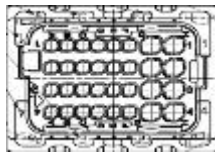
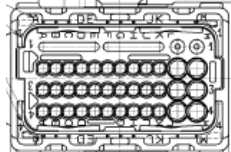
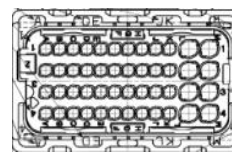
CMC Connectors are a wire-to-board connection system.

Key features of CMC connectors are:

- Sealed** → High performing matte seal
- High-density** → Fine pitch size for compact PCB design
- Hybrid** → 2 different terminal sizes used CP 0.6 and CP 1.5
- Modular** → Different number of circuit sizes and color codings are available

CMC Connectors are to be used with Molex CP Terminals CP 0.6 and CP 1.5, Series 64322 and series 64323.

Overview of CMC Connector interfaces in Standards Version using CP 0.6 and CP 1.5mm:

Connectors	24 ckt	32 ckt	36 ckt	48ckt
0.6 mm CP (pcs)	18	24	30	40
1.5 mm CP (pcs)	6	8	6	8
Existing colors codings	Blk, Gry	Blk, Gry, Brn, Blu, Grn	Blk, Brn	Blk, Gry, Brn, Grn
Product Serie	Yes	Yes	Yes	Yes
Connector interface				

To use the product please refer to the related application specification: **AS-98420-002**

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APPLICATION SPECIFICATION

1.2 OVERVIEW



48-circuit CMC Connector, 64320, brown color coding, wire cap and seal plug for 0.60 and 1.50mm cavity

2.0 DOCUMENTS

Operating conditions

Product specification	PS-64319-001
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Connector drawings

32 circuit	SD-64319-001
48 circuit	SD-64320-001
24 circuit	SD-64319-003
36 circuit	SD-64320-003

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

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

Plug drawings

Cavity 0.60mm	SD-64325-001
Cavity 1.50mm	SD-64325-002

Wire cap drawings

24, 32 circuits	SD-64319-002
36, 48 circuits	SD-64320-002

Packaging

24, 32 circuits	PK-64319-001
36, 48 circuits	PK-64320-001

Application specification (how to use)

English	AS-98420-002
French	AS-98420-002-FR
Mandarin	AS-98420-002-CH
Spanish	AS-98420-002-SP




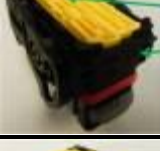



ALL DRAWINGS AND PRINTS CAN BE FOUND AT WWW.MOLEX.COM

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APPLICATION SPECIFICATION

3.0 PART NUMBERS

DESCRIPTION		MOLEX P/N	COLOR
 CP 1.5 (D)	6 X 1.5 18 X 0.6	24 circuits* (D) right wire output	064319-4211 Black**
			064319-4218 Grey**
 CP 1.5 (G)	6 X 1.5 18 X 0.6	24 circuits* (G) left wire output	064319-2211 Black**
			064319-2218 Grey**
 CP 1.5 (D)	8 X 1.5 24 X 0.6	32 circuits (D) right wire output	064319-3211 Black
			064319-3218 Grey
			064319-3219 Brown
			064319-3216 Blue
 CP 1.5 (G)	8 X 1.5 24 X 0.6	32 circuits (G) left wire output	064319-1211 Black
			064319-1218 Grey
			064319-1219 Brown
			064319-1216 Blue
 CP 1.5 (D)	6 X 1.5 30 X 0.6	36 circuits* (D) right wire output	064320-4311 Black**
			064320-4319 Brown**
 CP 1.5 (G)	6 X 1.5 30 X 0.6	36 circuits* (G) left wire output	064320-2311 Black**
			064320-2319 Brown**
 CP 1.5 (D)	8 X 1.5 40 X 0.6	48 circuits (D) right wire output	064320-3311 Black
			064320-3318 Grey
			064320-3319 Brown
			064320-3315 Green
 CP 1.5 (G)	8 X 1.5 40 X 0.6	48 circuits (G) left wire output	064320-1311 Black
			064320-1318 Grey
			064320-1319 Brown
			064320-1315 Green

* = reduced number of position due to one blind row on the rear seal cover



** = Line 1 closed

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

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APPLICATION SPECIFICATION





DESCRIPTION		MOLEX P/N	COLOR
	24, 32 circuits	064319-1201	Black
	36, 48 circuits	064320-1301	Black
	0.60 terminal cavity	064325-1010	White
	1.50 terminal cavity	064325-1023	Orange




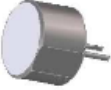
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APPLICATION SPECIFICATION

TERMINAL FOR ISO WIRES					
DESCRIPTION		SERVICE TOOL	INSULATION Min. / Max.	MOLEX P/N	PLATING
	CP 0.6 0.35 mm ²	063813-2400 	1.25 / 1.40	064322-1019 064322-1229 064322-1349 HP	Tin Gold Gold
	CP 0.6 0.5 mm ²		1.40 / 1.70	064322-1039 064322-1239 064322-1359 HP	Tin Gold Gold
	CP 0.6 0.75 mm ²		1.60 / 1.90	064322-1029 064322-1219 063422-1339 HP	Tin Gold Gold
	CP 1.5 0.5 to 1.0 mm ²	063813-2300 	1.40 / 2.15	064323-1029 064323-1319	Tin Gold
	CP 1.5 1.5 to 2.0 mm ²		1.20 / 2.80	064323-1039 064323-1219	Tin Gold

TERMINAL FOR TXL WIRES					
DESCRIPTION		SERVICE TOOL	INSULATION MAX.	MOLEX P/N	PLATING
	CP 0.6 AWG 22	063813-2400 	1.70	064322-1019 064322-1229 064322-1349 HP	Tin Gold Gold
	CP 0.6 AWG 20		1.90	064322-1039 064322-1239 064322-1359 HP	Tin Gold Gold
	CP 0.6 * AWG 18		2.06*	064322-1029 064322-1219 063422-1339 HP	Tin Gold Gold
	CP 1.5 AWG 18	063813-2300 	2.20	064323-1029 064323-1319	Tin Gold
	CP 1.5 AWG 16 & 14		AWG 16: 2.40 AWG 14: 2.70	064323-1039 064323-1219	Tin Gold

*The CP 0.6 terminal, with 18 TXL wire is limit to a maximum diameter of 2.06mm, meeting the requirement of Ford specification FSB-M1L123-A

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