

# Mini Circular Plastic Connectors (CPC)



AMP | AMP CPC

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Mini CPC connectors accept existing Mini-Universal MATE-N-LOK pin and socket contacts, 30-22AWG. Two shell sizes (8 or 11) are available, accommodating from 1-4 and 5-9 positions. High contact density and IP67 sealing.



Connector Product Type: **Housing**

Operating Voltage: **250 VDC**

Wire Size: **.0509 - .823 mm<sup>2</sup>**

Connector System: **Wire-to-Wire**

## Features

### Product Type Features

Connector Seal & Plug Type	Peripheral, Wire Entry Seal
Connector Product Type	Housing
Connector System	Wire-to-Wire
Sealable	Yes
Connector & Contact Terminates To	Wire & Cable
Connector & Housing Type	Plug, Receptacle
Circular Connector Shell Type	All Plastic

### Configuration Features

Reverse Numbering	Without
Number of Positions	1, 2, 3, 4, 5, 6, 7, 8, 9
Number of Power Positions	0
Number of Signal Positions	1, 2, 3, 4, 5, 6, 7, 8, 9

### Electrical Characteristics

Operating Voltage (VDC)	250
Operating Voltage (VAC)	250

### Contact Features

Reverse Gender	No
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Contact Type	Pin, Socket
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Contact Current Rating (Max) (A)	5.9, 7.5
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#### Termination Features

Termination Method to Wire & Cable	Crimp
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#### Mechanical Attachment

Mating Alignment	With
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Mating Retention Type	Threaded Coupling
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Thread Size	1/2-20 UNF-2A, 3/4-20 INEF-2A, 3/4-20 UNEF 2A, 3/4-20 UNEF-2A, 5/8-24 UNEF-2A and 1/2-20 UNF-2A
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Connector Mounting Type	Panel Mount
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Mating Retention	With
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Panel Mount Feature	With, Without
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#### Housing Features

Housing Color	Black
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Housing Material	Thermoplastic
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Circular Connector Shell Size	11, 8
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#### Dimensions

Compatible Insulation Diameter Range (mm)	.89 - 1.5, 1.5, 1.5 - 2.39
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Compatible Insulation Diameter Range (in)	.035 - .059, .059 - .094, .059 - .11
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Wire Size (AWG)	30 - 18
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Wire Size (mm <sup>2</sup> )	.0509 - .823
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#### Usage Conditions

Operating Temperature Range (°C)	-55 - 105
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Operating Temperature Range (°F)	-67 - 221
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Fluid Resistance	Immersion
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#### Operation/Application

Circuit Application	Power & Signal
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Shielded	No
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#### Industry Standards

UL Flammability Rating	UL 94V-0
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#### Packaging Features



Packaging Quantity	100, 800
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Packaging Method	Bag, Carton, Package
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**Reference Number**

TE Internal Number	CAT-AM71-C83998EE
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SEE PRODUCTS ON NEXT PAGE

Products (1 of 5)



RECPT,11-9,FREE HNG,STD KEY



REC,11-6,FRE HNG,SM INS, STD KE



REC,8-4,FLNG MT,LG INS, STD KEY



RECPT,11-9,FLNG MT,STD KEY

TE Part #	1445825-1	1445828-1	1445421-3	1445816-1
Number of Positions	9	6	4	9
Connector & Housing Type	Receptacle	Receptacle	Receptacle	Receptacle
Contact Type	Pin	Pin	Pin	Pin
Contact Current Rating (Max)	5.9 A	5.9 A	7.5 A	5.9 A
Number of Signal Positions	9	6	4	9
Circular Connector Shell Size	11	11	8	11
Connector Mounting Type			Panel Mount	Panel Mount
Panel Mount Feature	Without	Without	With	With
Packaging Method	Bag	Bag	Carton	Carton
EU RoHS Directive 2011/65 /EU	EU RoHS Compliant	EU RoHS Compliant	EU RoHS Compliant	EU RoHS Compliant
EU ELV Directive 2000/53/EC	EU ELV Compliant	EU ELV Compliant	EU ELV Compliant	EU ELV Compliant
Product Families	AMP	AMP	AMP	AMP
Series	AMP CPC	AMP CPC	AMP CPC	AMP CPC

**\*EU RoHS Directive 2011/65/EU**

These products comply with the substance restrictions of the Restriction on Hazardous Substances Directive 2011/65/EU (RoHS2). The RoHS2 Directive requires that certain electrical and electronic equipment products do not contain mercury, cadmium, hexavalent chromium, PBB, PBDE, lead, DEHP, BBP, DBP and DIBP above defined thresholds. Products indicated as 'Compliant' do not contain any of these substances above the prohibition thresholds. Finished electrical and electronic equipment products will be CE marked as required by the Directive. Components may not be CE marked.

**\*\*EU ELV Directive 2000/53/EC**

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## Products (2 of 5)



RECPT,11-9,FLNG MT,STD KEY



REC,8-4,FREE HG,SM INS, STD KEY



REC,8-4,FREE HG,LG INS, STD KEY



PLUG,8-4,SM INS,STD KEY

TE Part #	1445816-3	1445389-1	1445389-3	1445390-1
Number of Positions	9	4	4	4
Connector & Housing Type	Receptacle	Receptacle	Receptacle	Plug
Contact Type	Pin	Pin	Pin	Socket
Contact Current Rating (Max)	5.9 A	7.5 A	7.5 A	7.5 A
Number of Signal Positions	9	4	4	4
Circular Connector Shell Size	11	8	8	8
Connector Mounting Type	Panel Mount			
Panel Mount Feature	With	Without	Without	Without
Packaging Method	Carton	Bag	Bag	Bag
EU RoHS Directive 2011/65 /EU	EU RoHS Compliant	EU RoHS Compliant	EU RoHS Compliant	EU RoHS Compliant
EU ELV Directive 2000/53/EC	EU ELV Compliant	EU ELV Compliant	EU ELV Compliant	EU ELV Compliant
Product Families	AMP	AMP	AMP	AMP
Series	AMP CPC	AMP CPC	AMP CPC	AMP CPC

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Products (3 of 5)



PLUG,8-4,LG INS,STD KEY



REC,8-4,FLNG MT,SM INS,STD KEY



PLUG,8-3,SMALL INS,STD KEY



PLUG,8-3,LARGE INS,STD KEY

TE Part #	1445390-3	1445421-1	1445534-1	1445534-3
Number of Positions	4	4	3	3
Connector & Housing Type	Plug	Receptacle	Plug	Plug
Contact Type	Socket	Pin	Socket	Socket
Contact Current Rating (Max)	7.5 A	7.5 A	7.5 A	7.5 A
Number of Signal Positions	4	4	3	3
Circular Connector Shell Size	8	8	8	8
Connector Mounting Type	Panel Mount			
Panel Mount Feature	Without	With	Without	Without
Packaging Method	Bag	Package	Bag	Bag
EU RoHS Directive 2011/65 /EU	EU RoHS Compliant	EU RoHS Compliant	EU RoHS Compliant	EU RoHS Compliant
EU ELV Directive 2000/53/EC	EU ELV Compliant	EU ELV Compliant	EU ELV Compliant	EU ELV Compliant
Product Families	AMP	AMP	AMP	AMP
Series	AMP CPC	AMP CPC	AMP CPC	AMP CPC

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Products (4 of 5)



PLUG,8-2,LG INS,STD KEY



PLUG,8-2,LG INS,STD KEY



REC,8-2,FLNG MT,LG INS,STD KEY



PLUG,11-9,SM INS,STD KEY

TE Part #	1445535-1	1445535-3	1445538-3	1445807-1
Number of Positions	2	2	2	9
Connector & Housing Type	Plug	Plug	Receptacle	Plug
Contact Type	Socket	Socket	Pin	Socket
Contact Current Rating (Max)	7.5 A	7.5 A	7.5 A	5.9 A
Number of Signal Positions	2	2	2	9
Circular Connector Shell Size	8	8	8	11
Connector Mounting Type			Panel Mount	
Panel Mount Feature	Without	Without	With	Without
Packaging Method	Bag	Bag	Carton	Bag
EU RoHS Directive 2011/65/EU	EU RoHS Compliant	EU RoHS Compliant	EU RoHS Compliant	EU RoHS Compliant
EU ELV Directive 2000/53/EC	EU ELV Compliant	EU ELV Compliant	EU ELV Compliant	EU ELV Compliant
Product Families	AMP	AMP	AMP	AMP
Series	AMP CPC	AMP CPC	AMP CPC	AMP CPC

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Products (5 of 5)



PLUG,11-5,LG INS,STD KEY



REC,11-6,FLNG MT,LG INS, STD KE



REC,11-5,FLNG MT,LG INS, STD KE



RECPT,11-9,FREE HNG,STD KEY

TE Part #	1445820-3	1445823-3	1445824-3	1445825-3
Number of Positions	5	6	5	9
Connector & Housing Type	Plug	Receptacle	Receptacle	Receptacle
Contact Type	Socket	Pin	Pin	Pin
Contact Current Rating (Max)	5.9 A	5.9 A	5.9 A	5.9 A
Number of Signal Positions	5	6	5	9
Circular Connector Shell Size	11	11	11	11
Connector Mounting Type		Panel Mount	Panel Mount	
Panel Mount Feature	Without	With	With	Without
Packaging Method	Bag	Carton	Carton	Bag
EU RoHS Directive 2011/65 /EU	EU RoHS Compliant	EU RoHS Compliant	EU RoHS Compliant	EU RoHS Compliant
EU ELV Directive 2000/53/EC	EU ELV Compliant	EU ELV Compliant	EU ELV Compliant	EU ELV Compliant
Product Families	AMP	AMP	AMP	AMP
Series	AMP CPC	AMP CPC	AMP CPC	AMP CPC

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## Related Materials

### Catalog Section

[1-1773902-9\\_CPC\\_Catalog](#)

English

### Catalog Section

[1-1773902-9\\_CPC\\_Catalog](#)

Chinese (Simplified)

### Catalog Section

[1-1773902-9\\_CPC\\_Catalog](#)

German

### Catalog Section

[1-1773902-9\\_CPC\\_Catalog](#)

Japanese

## Also in the Series | AMP CPC



Circular Power Connectors(458)



Connector Backshells(2)



Connector Caps & Covers(16)



Connector Contacts(6)



Connector Hardware(12)



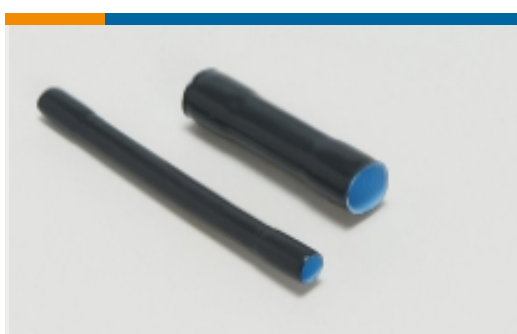
Connector Seals & Cavity Plugs(36)



Connector Strain Relief(60)



Insertion & Extraction Tools(1)



Sealing Sleeves(2)