

# Circular Waterproof Connectors

## A/B/C/D Sizes



## Range Overview

- Receptacle to Overmolded with Cable.
- Receptacle to Field Installable.
- Receptacle with Cable to Overmolded with Cable.
- In-Line.
- Receptacle with Cable to Field Installable.

## Connector Pin Configuration

No. of Contacts	5A	2A
02		
03		
04		
05		
06		
07		
08		
10		
12		

◆ A Size Series

No. of Contacts	10A	5A	2A
02			
03			
04			
05			
06			
07			
08			
10			
12			

◆ B Size Series

No. of Contacts	20A	10A	5A	2A
03				
04				
05				
06				
07				
08				
09				
10				
12				
14				
18				

◆ C Size Series

No. of Contacts	20A	5A	2A
02			
03			
04			
05			
06			
07			
18			
20			
21			
22			

◆ D Size Series

## Application

According to LED market with characteristical demands and various changes, we provide a professional series of Circular Connectors, which is the best solution for a wide range of LED connection of Data, Power, and Mix Data & Power in indoors and outdoors environments. This series of connectors reach up to IP67 of waterproof rating.

### Below are the applications of Circular Connector in LED Markets:

- The Refrigerated Area Lighting.
- Vehicle Industry for Train, Truck, Ferry, Transportations...etc.
- Aircraft Cabin Lighting.
- Outdoor Lighting Industry such as Tunnel, Street, Parking Lot, Freeways...etc.
- Commercial Lighting for Buildings.

## Specification

<b>Identification</b>	A Size (Mini), B Size (Standard), C Size (Middle), D Size (Large)
<b>Screw Thread Size</b>	A Size : 7/16"-28UNS B Size : 5/ 8"-27 UNS C Size : 13/ 16"-28UNS D Size : 1"-20 UNEF
<b>Description</b>	Receptacle Receptacle with Cable Overmolded with Cable Field Installable
<b>Mating Style</b>	Lock Bayonet, Screw Thread
<b>Current Rating</b>	2A, 5A, 10A, 20A
<b>Material</b>	Connector Body (Housing) : Nylon + GF Contacts : Copper Alloy, Gold Plated
<b>Waterproof Rating</b>	IP66 ~ IP67
<b>Temperature Range</b>	Receptacle : -40°C ~ 105°C Receptacle with Cable : -20°C ~ 80°C Overmolded with Cable : -20°C ~ 80°C Field Installable : -40°C ~ 105°C
<b>Contact Resistance</b>	≤ 10 mΩ
<b>Insulation Resistance</b>	≥ 100 MΩ at DC500V
<b>Durability</b>	Min. 300 Cycles
<b>Dielectric Withstand Voltage</b>	≥ AC 1000V / 1 minute
<b>Corrosion</b>	48H Salt Spray Contact

## Receptacle with Cable - Lock Bayonet Type



Current Rating	No. of Pins	Part No.
5A	2	CA-02F1-01-11
	3	CA-03F1-02-11
2A	4	CA-04F1-02-11
	5	CA-05F1-03-11
	6	CA-06F1-01-11

## Overmolded with Cable - Lock Bayonet Type



Current Rating	No. of Pins	Part No.
5A	2	CA-02M1-02-11
	3	CA-03M1-03-11
2A	4	CA-04M1-03-11
	5	CA-05M1-05-11-
	6	CA-06M1-02-11

# A Size Series

## Front Mount Connector - Lock Bayonet Type



Current Rating	No. of Pins	Part No.	
		Solder Pins	DIP Pins
5A	2	CA-02M1-01-11	CA-02M3-05-11
	3	CA-03M1-01-11	CA-03M3-07-11
2A	4	CA-04M1-02-11	CA-04M3-07-11
	5	CA-05M1-04-11	CA-05M3-08-11
	6	CA-06M1-01-11	CA-06M3-06-11

## Range Overview

- Receptacle to Overmolded with Cable.
- Receptacle to Field Installable.
- Receptacle with Cable to Overmolded with Cable.
- In-Line.
- Receptacle with Cable to Field Installable.

## Connector Pin Configuration

No. of Contacts	10A	5A	2A
02			
03			
04			
05			
06			
07			
08			
10			
12			

◆ B Size Series

No. of Contacts	20A	10A	5A	2A
03				
04				
05				
06				
07				
08				
09				
10				
12				
14				
18				

◆ C Size Series

No. of Contacts	20A	5A	2A
02			
03			
04			
05			
06			
07			
18			
20			
21			
22			

◆ D Size Series

## Application

According to LED market with characteristical demands and various changes, we provide a professional series of Circular Connectors, which is the best solution for a wide range of LED connection of Data, Power, and Mix Data & Power in indoors and outdoors environments. This series of connectors reach up to IP67 of waterproof rating.

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- Vehicle Industry for Train, Truck, Ferry, Transportations...etc.
- Aircraft Cabin Lighting.
- Outdoor Lighting Industry such as Tunnel, Street, Parking Lot, Freeways...etc.
- Commercial Lighting for Buildings.



# B Size Series

## Specification

<b>Identification</b>	B Size (Standard), C Size (Middle), D Size (Large)
<b>Screw Thread Size</b>	B Size : 5/ 8"-27 UNS C Size : 13/ 16"-28UNS D Size : 1"-20 UNEF
<b>Description</b>	Receptacle Receptacle with Cable Overmolded with Cable Field Installable
<b>Mating Style</b>	Lock Bayonet, Screw Thread
<b>Current Rating</b>	2A, 5A, 10A, 20A
<b>Material</b>	Connector Body (Housing) : Nylon + GF Contacts : Copper Alloy, Gold Plated
<b>Waterproof Rating</b>	IP66 ~ IP67
<b>Temperature Range</b>	Receptacle : -40°C ~ 105°C Receptacle with Cable : -20°C ~ 80°C Overmolded with Cable : -20°C ~ 80°C Field Installable : -40°C ~ 105°C
<b>Contact Resistance</b>	≤ 10 mΩ
<b>Insulation Resistance</b>	≥ 100 MΩ at DC500V
<b>Durability</b>	Min. 300 Cycles
<b>Dielectric Withstand Voltage</b>	≥ AC 1000V / 1 minute
<b>Corrosion</b>	48H Salt Spray Contact

# B Size Series

## Receptacle with Cable - Lock Bayonet Type



Current Rating	No. of Pins	Part No.
10A	2	CB-02F2-48-11
	3	CB-03F2-88-11
	4	CB-04F2-187-11
5A	2	CB-02F2-49-11
	3	CB-03F2-89-11
	4	CB-04F2-188-11
	5	CB-05F2-146-11
	6	CB-06F2-61-11
	7	CB-07F2-08-11
	8	CB-08F2-95-11
2A	10	CB-10F2-13-11
	12	CB-12F2-18-11

# B Size Series

## Field Installable - Lock Bayonet Type



Current Rating	No. of Pins	Part No.
10A	2	CB-02F2-54-11
	3	CB-03F2-96-11
	4	CB-04F2-194-11
5A	2	CB-02F2-55-11
	3	CB-03F2-97-11
	4	CB-04F2-195-11
	5	CB-05F2-151-11
	6	CB-06F2-63-11
	7	CB-07F2-11-11
	8	CB-08F2-102-11
2A	10	CB-10F2-15-11
	12	CB-12F2-24-11

# B Size Series

## Overmolded with Cable - Lock Bayonet Type



Current Rating	No. of Pins	Part No.
5A	2	CB-02M2-55-11
	3	CB-03M2-93-11
	6	CB-06M2-63-11
	8	CB-08M2-78-11

# B Size Series

## Field Installable - Lock Bayonet Type



Current Rating	No. of Pins	Part No.
5A	2	CB-02M2-56-11
	3	CB-03M2-96-11
	6	CB-06M2-64-11
	8	CB-08M2-79-11

# B Size Series

## Front Mount Connector - Lock Bayonet Type



Current Rating	No. of Pins	Part No.	
		Solder Pins	DIP Pins
10A	2	CB-02M2-51-11	CB-02M3-02-11
	3	CB-03M2-86-11	CB-03M3-01-11
	4	CB-04M2-156-11	CB-04M3-03-11
5A	2	CB-02M2-52-11	CB-02M3-03-11
	3	CB-03M2-87-11	CB-03M3-02-11
	4	CB-04M2-157-11	CB-04M3-04-11
	5	CB-05M2-125-11	CB-05M3-06-11
	6	CB-06M2-62-11	CB-06M3-04-11
	7	CB-07M2-11-11	CB-07M3-01-11
	8	CB-08M2-74-11	CB-08M3-02-11
2A	10	CB-10M2-14-11	CB-10M3-03-11
	12	CB-12M2-17-11	CB-12M3-02-11

# B Size Series

## Rear Mount Connector - Lock Bayonet Type



Current Rating	No. of Pins	Part No.	
		Solder Pins	DIP Pins
	3	CB-03M2-88-11	CB-03M3-03-11

# B Size Series

## Receptacle with Cable - Screw Type



Current Rating	No. of Pins	Part No.
10A	2	CB-02F2-50-11
	3	CB-03F2-90-11
	4	CB-04F2-189-11
5A	2	CB-02F2-51-11
	3	CB-03F2-91-11
	4	CB-04F2-190-11
	5	CB-05F2-147-11
	6	CB-06F2-62-11
	7	CB-07F2-09-11
	8	CB-08F2-96-11
2A	10	CB-10F2-14-11
	12	CB-12F2-19-11



# B Size Series

## Field Installable - Screw Type



Current Rating	No. of Pins	Part No.
10A	2	CB-02F2-56-11
	3	CB-03F2-98-11
	4	CB-04F2-196-11
5A	2	CB-02F2-57-11
	3	CB-03F2-99-11
	4	CB-04F2-197-11
	5	CB-05F2-152-11
	6	CB-06F2-64-11
	7	CB-07F2-12-11
	8	CB-08F2-103-11
2A	10	CB-10F2-16-11
	12	CB-12F2-25-11

# B Size Series

## Front Mount Connector - Screw Type



Current Rating	No. of Pins	Part No.	
		Solder Pins	DIP Pins
2A	3	CB-03M2-89-11	CB-03M3-04-11
	10	-	CB-10M3-04-11
	12	-	CB-12M3-03-11

# B Size Series

## Rear Mount Connector - Screw Type



Current Rating	No. of Pins	Part No.	
		Solder Pins	DIP Pins
10A	3	CB-03M2-90-11	CB-03M3-05-11

## Range Overview

- Receptacle to Overmolded with Cable.
- Receptacle to Field Installable.
- Receptacle with Cable to Overmolded with Cable.
- In-Line.
- Receptacle with Cable to Field Installable.

## Connector Pin Configuration

No. of Contacts	10A	5A	2A
02			
03			
04			
05			
06			
07			
08			
10			
12			

◆ B Size Series

No. of Contacts	20A	10A	5A	2A
03				
04				
05				
06				
07				
08				
09				
10				
12				
14				
18				

◆ C Size Series

No. of Contacts	20A	5A	2A
02			
03			
04			
05			
06			
07			
18			
20			
21			
22			

◆ D Size Series

## Application

According to LED market with characteristical demands and various changes, we provide a professional series of Circular Connectors, which is the best solution for a wide range of LED connection of Data, Power, and Mix Data & Power in indoors and outdoors environments. This series of connectors reach up to IP67 of waterproof rating.

### Below are the applications of Circular Connector in LED Markets:

- The Refrigerated Area Lighting.
- Vehicle Industry for Train, Truck, Ferry, Transportations...etc.
- Aircraft Cabin Lighting.
- Outdoor Lighting Industry such as Tunnel, Street, Parking Lot, Freeways...etc.
- Commercial Lighting for Buildings.

# C Size Series

## Specification

<b>Identification</b>	B Size (Standard), C Size (Middle), D Size (Large)
<b>Screw Thread Size</b>	B Size : 5/ 8"-27 UNS C Size : 13/ 16"-28UNS D Size : 1"-20 UNEF
<b>Description</b>	Receptacle Receptacle with Cable Overmolded with Cable Field Installable
<b>Mating Style</b>	Lock Bayonet, Screw Thread
<b>Current Rating</b>	2A, 5A, 10A, 20A
<b>Material</b>	Connector Body (Housing) : Nylon + GF Contacts : Copper Alloy, Gold Plated
<b>Waterproof Rating</b>	IP66 ~ IP67
<b>Temperature Range</b>	Receptacle : -40°C ~ 105°C Receptacle with Cable : -20°C ~ 80°C Overmolded with Cable : -20°C ~ 80°C Field Installable : -40°C ~ 105°C
<b>Contact Resistance</b>	≤ 10 mΩ
<b>Insulation Resistance</b>	≥ 100 MΩ at DC500V
<b>Durability</b>	Min. 300 Cycles
<b>Dielectric Withstand Voltage</b>	≥ AC 1000V / 1 minute
<b>Corrosion</b>	48H Salt Spray Contact

# C Size Series

## Receptacle with Cable - Lock Bayonet Type



Current Rating	No. of Pins	Part No.
20A	3	CC-03F2-94-11
10A	4	CC-04F1-01-11
	5	CC-05F1-02-11
5A	14	CC-14F1-01-11
2A	10	CC-10F1-01-11
	18	CC-18F1-01-11
	20	CC-20F1-01-11

## Receptacle with Cable (Power 20A) - Lock Bayonet Type



Current Rating	No. of Pins	Part No.
20A	3	CC-03F2-92-11

# C Size Series

## Receptacle with Cable (HEX NUT) - Lock Bayonet Type



Current Rating	No. of Pins	Part No.
10A	5	CC-05F2-136-11
2A	10	CC-10F2-12-11
	20	CC-20F2-01-11



# C Size Series

## Field Installable - Lock Bayonet Type



Current Rating	No. of Pins	Part No.
10A	5	CC-05F2-149-11
5A	14	CC-14F2-01-11
2A	18	CC-18F2-15-11
	20	CC-20F2-02-11

## Field Installable (Power 20A) - Lock Bayonet Type



Current Rating	No. of Pins	Part No.
20A	3	CC-03F2-95-11

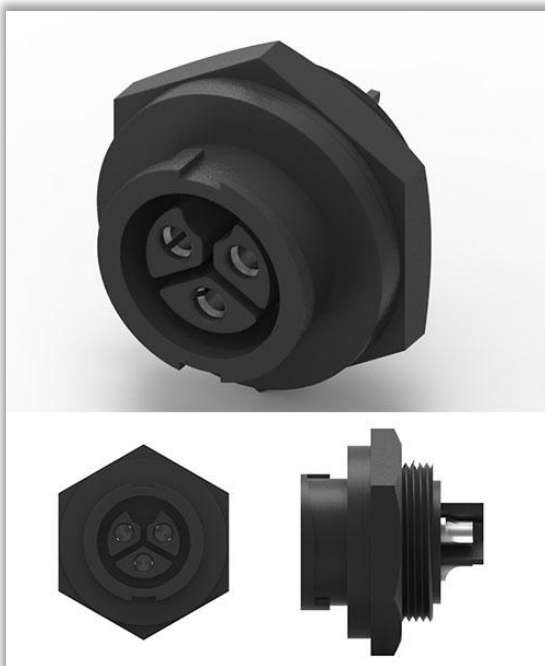
# C Size Series

## Rear Mount Solder Pin Connector – Lock Bayonet Type



Current Rating	No. of Pins	Part No.
5A	7	CC-07F2-10-11
	8	CC-08F2-100-11
	9	CC-09F2-25-1

## Rear Mount Solder Pin (Power 20A) – Lock Bayonet Type



Current Rating	No. of Pins	Part No.
20A	3	CC-03F2-93-11

# C Size Series

## Overmolded with Cable - Lock Bayonet Type



Current Rating	No. of Pins	Part No.
5A	7	CC-07M2-13-11
	8	CC-08M2-76-11
	9	CC-09M2-13-11

## Overmolded with Cable (Power 20A) - Lock Bayonet Type



Current Rating	No. of Pins	Part No.
20A	3	CC-03M2-91-11

# C Size Series

## Field Installable (Power 20A) - Lock Bayonet Type



Current Rating	No. of Pins	Part No.
20A	3	CC-03M2-95-11

# C Size Series

## Front Mount Solder Pin Connector - Lock Bayonet Type



Current Rating	No. of Pins	Part No.
20A	3	CC-03M2-94-11
10A	4	CC-04M2-163-11
	5	CC-05M2-131-11
5A	14	CC-14M2-01-11
2A	10	CC-10M2-15-11
	18	CC-18M2-16-11
	20	CC-20M1-01-11

## Front Mount DIP Pin Connector - Lock Bayonet Type

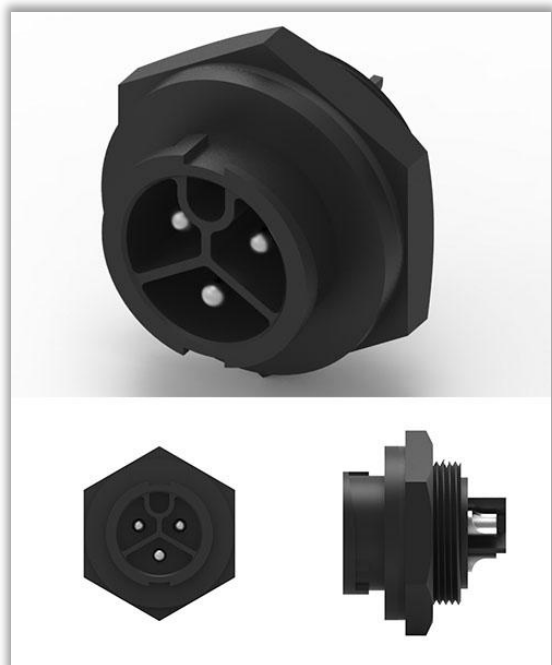


Current Rating	No. of Pins	Part No.
10A	4	CC-04M3-06-11
	5	CC-05M3-05-11
5A	7	CC-07M3-02-11
	14	CC-14M3-01-11
2A	10	CC-10M3-02-11
	18	CC-18M3-01-11
	20	CC-20M3-02-11

# C Size Series



## Rear Mount Solder Pin Connector (Power 20A) - Lock Bayonet Type



Current Rating	No. of Pins	Part No.
20A	3	CC-03M2-92-11

# C Size Series

## Dust Cap - Lock Bayonet Type



<b>Part No.</b>	WP1268-01
<b>Material</b>	
<b>Cap</b>	Nylon 66
<b>Rubber Lead</b>	PVC
<b>Gasket</b>	Silicone
<b>Screw</b>	Steel

## Dust Cap - Screw Thread Type















<b>Part No.</b>	WP12861
<b>Material</b>	
<b>Cap</b>	Nylon 66
<b>Rubber Lead</b>	PVC
<b>Gasket</b>	Silicone
<b>Screw</b>	Steel












## Range Overview

- Receptacle to Overmolded with Cable.
- Receptacle to Field Installable.
- Receptacle with Cable to Overmolded with Cable.
- In-Line.
- Receptacle with Cable to Field Installable.











## Connector Pin Configuration

No. of Contacts	10A	5A	2A
02			
03			
04			
05			
06			
07			
08			
10			
12			

◆ B Size Series

No. of Contacts	20A	10A	5A	2A
03				
04				
05				
06				
07				
08				
09				
10				
12				
14				
18				

◆ C Size Series

No. of Contacts	20A	5A	2A
02			
03			
04			
05			
06			
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20			
21			
22			

◆ D Size Series



## Application

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- Aircraft Cabin Lighting.
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- Commercial Lighting for Buildings.

# D Size Series

## Specification

<b>Identification</b>	B Size (Standard), C Size (Middle), D Size (Large)
<b>Screw Thread Size</b>	B Size : 5/ 8"-27 UNS C Size : 13/ 16"-28UNS D Size : 1"-20 UNEF
<b>Description</b>	Receptacle Receptacle with Cable Overmolded with Cable Field Installable
<b>Mating Style</b>	Lock Bayonet, Screw Thread
<b>Current Rating</b>	2A, 5A, 10A, 20A
<b>Material</b>	Connector Body (Housing) : Nylon + GF Contacts : Copper Alloy, Gold Plated
<b>Waterproof Rating</b>	IP66 ~ IP67
<b>Temperature Range</b>	Receptacle : -40°C ~ 105°C Receptacle with Cable : -20°C ~ 80°C Overmolded with Cable : -20°C ~ 80°C Field Installable : -40°C ~ 105°C
<b>Contact Resistance</b>	≤ 10 mΩ
<b>Insulation Resistance</b>	≥ 100 MΩ at DC500V
<b>Durability</b>	Min. 300 Cycles
<b>Dielectric Withstand Voltage</b>	≥ AC 1000V / 1 minute
<b>Corrosion</b>	48H Salt Spray Contact

# D Size Series

## Receptacle with Cable - Lock Bayonet Type



Current Rating	No. of Pins	Part No.
20A	4	CD-04F2-205-11
	5	CD-05F2-148-11
	7	CD-07F2-07-11
5A	18	CD-18F2-13-11

## Receptacle with Cable – Screw Thread Type



Current Rating	No. of Pins	Part No.
5A	18	CD-18F2-14-11

# D Size Series

## Field Installable - Lock Bayonet Type



Current Rating	No. of Pins	Part No.
20A	4	CD-04F2-206-11
	5	CD-05F2-161-11
	7	CD-07F2-13-11
5A	18	CD-18F2-18-11

## Field Installable – Screw Thread Type



Current Rating	No. of Pins	Part No.
5A	18	CD-18F2-17-11

## D Size Series

### Front Mount Solder Pin Connector (Circular Flange) – Lock Bayonet Type



Current Rating	No. of Pins	Part No.
5A	18	CD-18F2-01-11

### Front Mount Solder Pin Connector (Square Flange) – Lock Bayonet Type



Current Rating	No. of Pins	Part No.
5A	18	CD-18F2-04-11

## D Size Series

### Front Mount Solder Pin Connector (Circular Flange) – Screw Thread Type



Current Rating	No. of Pins	Part No.
5A	18	CD-18F2-07-11

### Front Mount Solder Pin Connector (Square Flange) – Screw Thread Type



Current Rating	No. of Pins	Part No.
5A	18	CD-18F2-10-11

## D Size Series

### Front Mount DIP Type (Circular Flange) – Lock Bayonet Type



Current Rating	No. of Pins	Part No.
5A	18	CD-18F2-03-11

### Front Mount DIP Type (Square Flange) – Lock Bayonet Type



Current Rating	No. of Pins	Part No.
5A	18	CD-18F2-06-11

## D Size Series

### Front Mount DIP Type (Circular Flange) –Screw Thread Type



Current Rating	No. of Pins	Part No.
5A	18	CD-18F2-09-11

### Front Mount DIP Type (Square Flange) – Screw Thread Type



Current Rating	No. of Pins	Part No.
5A	18	CD-18F2-12-11



# D Size Series

## Overmolded with Cable - Lock Bayonet Type



Current Rating	No. of Pins	Part No.
20A	4	CD-04M2-164-11
	5	CD-05M2-128-11
5A	18	CD-18M1-01-11

## Overmolded with Cable (Female Connector/ Male Pin) - Lock Bayonet Type



Current Rating	No. of Pins	Part No.
5A	18	CD-18M2-13-11

# D Size Series

## Field Installable - Lock Bayonet Type



Current Rating	No. of Pins	Part No.
20A	4	CD-04M2-165-11
	5	CD-05M2-132-11
5A	18	CD-18M2-19-11

## Field Installable (Female Connector/ Male Pin) - Lock Bayonet Type



Current Rating	No. of Pins	Part No.
5A	18	CD-18M2-18-11

# D Size Series

## Field Installable – Screw Thread Type



Current Rating	No. of Pins	Part No.
5A	18	CD-18M2-17-11

## D Size Series

### Front Mount Solder Pin Connector (Circular Flange) - Lock Bayonet Type



Current Rating	No. of Pins	Part No.
20A	5	CD-05M2-127-11
	7	CD-07M2-12-11
5A	18	CD-18M2-01-11

### Front Mount Solder Pin Connector (Square Flange) - Lock Bayonet Type



Current Rating	No. of Pins	Part No.
20A	5	CD-05M2-126-11
	7	CD-07M2-10-11
5A	18	CD-18M2-04-11

## D Size Series

### Front Mount DIP Type Connector (Circular Flange) - Lock Bayonet Type



Current Rating	No. of Pins	Part No.
5A	18	CD-18M2-03-11

### Front Mount DIP Type Connector (Square Flange) - Lock Bayonet Type



Current Rating	No. of Pins	Part No.
5A	18	CD-18M2-06-11

## D Size Series

### Front Mount Solder Pin Connector (Circular Flange) – Screw Thread Type



Current Rating	No. of Pins	Part No.
5A	18	CD-18M2-07-11

### Front Mount Solder Pin Connector (Square Flange) – Screw Thread Type



Current Rating	No. of Pins	Part No.
5A	18	CD-18M2-10-11

## D Size Series

### Front Mount DIP Type Connector (Circular Flange) – Screw Thread Type



Current Rating	No. of Pins	Part No.
5A	18	CD-18M2-09-11

### Front Mount DIP Type Connector (Square Flange) – Screw Thread Type



Current Rating	No. of Pins	Part No.
5A	18	CD-18M2-12-11

# D Size Series

## Rear Mount Solder Pin Connector – Screw Thread Type



Current Rating	No. of Pins	Part No.
5A	18	CD-18M2-15-11



# D Size Series

## Dust Cap



<b>Part No.</b>	WP1306-01
<b>Material</b>	
<b>Cap</b>	Nylon 66
<b>Rubber Lead</b>	PVC
<b>Gasket</b>	Silicone
<b>Screw</b>	Steel