One-Touch Locking Style Small Sized Circular Connectors

CM10 Series with-D Type



♦ OUTLINE

CM10 series with "-D" has black trivalent chromium treatment and is a connector which is in compliance with RoHS directive. D type is a small sized waterproof circular connector with push on and turnoff unlocking mechanism.

The plug will be easily locked with the receptacle when you push on. Rotating the coupling ring, the plug will be unlocked when you need to unmate.

The plug can not be unmated from the receptacle by such an unexpected force like the cable being pulled.



CM10 with "-D" has a solid construction with the metal shell. The weight of the connector is lighter with the light metal backshell and the resin clamp nut than the CM10 series connectors which we had released earlier. CM10 series with "-D" can be used with a wide range of applications since it is small size and waterproof connector.

♦ FEATURES

- 1. Solid structure with a metal shell
- 2. One touch and reliable locking mechanism of push on and turnoff
- 3. With a grounding contact (Position 10)
- 4. Angle plug available for low-profile mounting
- 5. Finish : Black trivalent chromium treatment (RoHS compliant finish)

♦ SPECIFICATIONS

Item	2 Contacts	10 Contacts	
Rated Current	3A Max. / Contact		
Rated Voltage	200V AC(r.m.s.) Max		
Dielectric Withstanding Voltage	1,500V AC(r.m.s.) / 1 minute	900V AC(r.m.s.) / 1 minute	
Insulation Resistance	1,000M Ω Min. at 500V DC μe -25°C to +85°C # 22		
Operating Temperature Range			
Conductor Size			
Protection Rate	IP67 when mated (Receptac	le : Individually waterproof)	
	Receptacle	Receptacle	
	 Soldering only, 20AWG max. 	 Soldering Use, : 20AWG Max 	
Applicable Wire	Plug	Plug	
	Crimp:16AWG-20AWG	Crimp:20AWG-28AWG	
	 Soldering Use, 16AWG Max. 	• Soldering Use, : 20AWG Max.	

♦ MATERIAL/FINISH

Item	Receptacle	ltem	Plug
Pin Front Insulator	Synthetic Rubber/Black	Socket Cover Insulator	Plastic(UL94V-0)/Black
Pin Rear Insulator	Plastic(UL94V-0)/Black	Socket Insulator	Plastic(UL94V-0)/Black
Pin Contact	Copper Alloy/Gold Plating	Fixed Pin	Copper Alloy/Nickel Plating
O Ring(Mounting Side) Synthetic Rubber/Black		Socket Contact	Copper Alloy/Gold Plating
Receptacle Shell	Zinc Alloy/Trivalent Chromium Finish(Black)	Coupling Ring	Zinc Alloy/Trivalent Chromium Finish(Black)
Retaining Ring	Copper Alloy/Nickel Plating	O Ring(Mating Side)	Synthetic Rubber/Black
Ground Lug	Copper Alloy/Gold Plating	Plug Shell	Zinc Alloy/Trivalent Chromium Finish(Black)
		Spring	Stainless Steel
		Backshell	Aluminum Alloy/Trivalent Chromium Finish(Black)
		Bushing	Synthetic Rubber/Black
		Cable Clamp	Plastic(UL94V-0)/White
		Clamp Nut	Plastic(UL94V-0)/Black

Retaining Ring

Stainless Steel

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100929

Waterproof IP 67

Lock Type

Push-On



CM10-SP10S-S-D CM10-AP10S-S-D ϕ 4.0 ~ ϕ 6.0 CM10-SP10S-M-D CM10-AP10S-M-D ϕ 6.0 ~ ϕ 9.0 CM10-SP10S-L CM10-AP10S-M-D ϕ 6.0 ~ ϕ 9.0		0 0 ,	0 0 ,	
	C	CM10-SP10S-S-D	CM10-AP10S-S-D	$\phi 4.0 \sim \phi 6.0$
	С	M10-SP10S-M-D	CM10-AP10S-M-D	$\phi 6.0 \sim \phi 9.0$
$CMIIO-SPIUS-L-D \qquad CMIIO-APIUS-L-D \qquad \phi 9.0 \sim \phi 11.6$	0	CM10-SP10S-L-D	CM10-AP10S-L-D	φ 9.0~φ 11.6

Note: The applicable cable outside diameter is in the case of cabtyre cable. Regarding the wiring tools, please refer to the instruction manuals attached on the top-page of this connector catalogue.

► Contact of 10-Contact Plug

Loose Piece Contact

ltem	Contact P/N	Applicable Wire		Hand Tool P/N	Extraction Tool P/N
nom	(100 pcs in 1 bag)	Conductor Size	Insulation Dia.		
	CM10-#22SC(C1)(D8)-100	$20 \sim 22 AWG$	φ 1.10~φ 1.87	357J-50446T	
Crimping Type	CM10-#22SC(C2)(D8)-100	23 ~ 28AWG	$\phi 0.80 \sim \phi 1.50$	357J-50447T	357J-50548T
	CM10-#22SC(C4)(D8)-100	22~24AWG	φ 0.95 ~φ 1.69	357J-52667T	
Soldering Type	CM10-#22SC(S1)(D8)-100	20 AWG Max.			

1. The packaging specification is 100 pcs of contacts per bag for sale.

2. Both of the solder contacts and the crimp contacts shall be inserted into the inserts of the connectors after soldering the contacts to the cable or crimping the contacts with the cable.

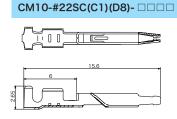
Reel Contact for Semi-Automatic Crimping Machine (Crimping Style Only) The semi-automatic crimping machine is required when you terminate the reel contacts.

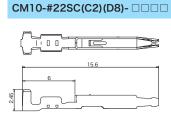
Contact P/N	Applicable Wire		Semi-Automatic Crimping Machine		Extraction Tool P/N
(5,000 pcs on 1 reel)	Conductor Size	Insulation Dia.	lset P/N	Applicator P/N	
CM10-#22SC(C1)(D8)-5000	$20 \sim 22 \text{AWG}$	ϕ 1.10 ~ ϕ 1.87	AP-A50539T	AP-A50539T-1	357J-50548T
CM10-#22SC(C2)(D8)-5000	$23 \sim 28 \text{AWG}$	ϕ 0.80 $\sim \phi$ 1.50	AP-A50540T	AP-A50540T-1	3573-505481
CM10-#22SC(C4)(D8)-5000	22~24AWG	φ 0.95∼φ 1.69	AP-A52666T	AP-A52666T-1	

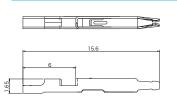
1. Both of AP50539T and AP50540T are the set part numbers which include both of the semi-automatic crimping machines and the applicators (stripper crimpers).

2. Each of AP50539T and AP50540T contains exactly the same semi-automatic machine.

Therefore if you change the applicator, you can terminate both of CM10-#22SC(C1)(D8)-5000 and CM10-#22SC(C2)(D8)-5000 by one semi-automatic crimping machine.

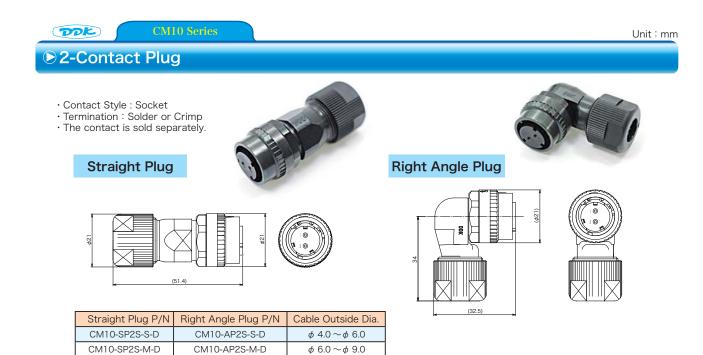






CM10-#22SC(S1)(D8)-

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φ 9.0~φ 11.6

Regarding the wiring tools, please refer to the instruction manuals attached on the top-page of this connector catalogue.

Loose Piece Contact

CM10-SP2S-L-D

Contact of 2-Contact Plug

ltem	Contact P/N	Applicable Wire		Hand Tool P/N	Extraction Tool P/N	
item	(100 pcs in 1 bag)	Conductor Size	Insulation Dia.		Extraction Tool P/IN	
Crimping Type	CM10-#22SC(C3)(D8)-100	$16 \sim 20 \mathrm{AWG}$	φ 1.87 ~ φ 2.45	357J-50448T		
Soldering Type	CM10-#22SC(S2)(D8)-100	16AWG Max.			357J-50548T	

1. The packaging specification is 100 pcs of contacts per bag for sale.

CM10-AP2S-L-D

Note: The applicable cable outside diameter is in the case of cabtyre cable.

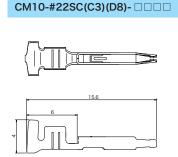
2. Both of the solder contacts and the crimp contacts shall be inserted into the inserts of the connectors after soldering the contacts to the cable or crimping the contacts with the cable.

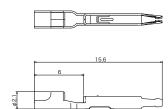
Reel Contact for Semi-Automatic Crimping Machine (Crimping Style Only) The semi-automatic crimping machine is required when you terminate the reel contacts.

Contact P/N	Applicable Wire		Semi-Automatic Crimping Machine		Extraction Tool P/N	
(4,000 pcs on 1 reel)	Conductor Size	Insulation Dia.	1set P/N	Applicator P/N	357J-50548T	
CM10-#22SC(C3)(D8)-4000	$16 \sim 20 \mathrm{AWG}$	φ 1.87~φ 2.45	AP-A50541T	AP-A50541T-1	357J-505481	

 Due to the construction of CM10-#22SC(C3)(D8)-4000 you can only make the crimping process by AP50541T. So the process of striping cable shall be made in advance.

2. AP50541T is a set part number which includes both of the semi-automatic crimping machine and the applicator (crimper).





CM10-#22SC(S2)(D8)-

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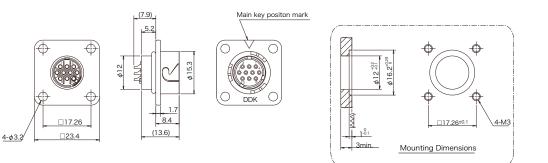
Receptacle

10 Pins

P/N
· Pin contact style only
· Soldering termination only
· CM10-R10P-D (D7)
· Conductor Size : 20 AWG Max.
· Individually waterproof

Max.

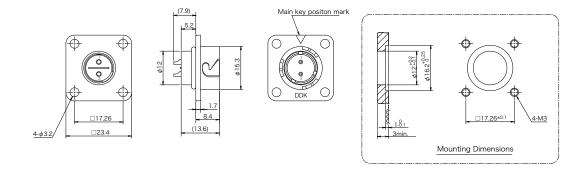
Contact No.10 grounded to shell with ground lug



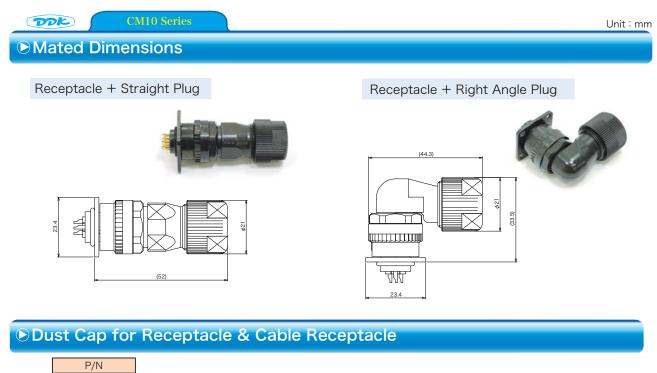


Pin contact style only
Soldering termination only
Conductor Size : 20 AWG Max.
Individually waterproof



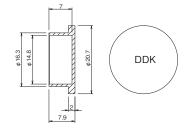


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CM10-R-DC

Material : Plastic Color : Red



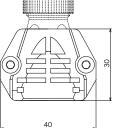
22.8

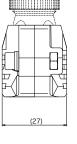
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Supporting Cover







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