

SMB Type Coaxial Connector

27DP Series





FEATURE

- 27DP series are connectors produced based on SMB type (Sub Miniature type B) specified in MIL-PRF-39012.
- 27DP is super small size coaxial cable connectors for 50 Ω group corresponding to minimization of communication equipment.
- Connection method is push on type, and fixing method cable is by crimping or soldering.

Frequency Range DC to 3GHz

Characteristic Impedance 50 Ω

CONFORMING STANDARD

JIS-C-5415、MIL-PRF-39012

SPECIFICATIONS

Characteristic Impedance	50 Ω			
Rated Volatge	335VAC(r.m.s.)			
Dielectric Withstanding Voltage	1,000V AC(r.m.s.) for 1 minute			
Insulation Resistance	1,000M Ω min. at 500V DC			
Contact Resistance	6m Ω max.			
V.S.W.R.	1.2 max. (DC to 2GHz) 1.3max. (2 to 3GHz)			
Operating Temperature	-40 ∼ +85°C			

^{*} The specifications are typical but may not apply to all connectors.

Please check the specifications on each item with its drawing from us when you use.

MATERIAL/FINISH



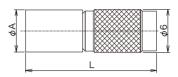
Item	Material / Finish
Shell (Body)	Copper Alloy / Au or Ni Plating
Contact (Male)	Copper Alloy / Au Plating
Contact (Female)	Copper Alloy / Au Plating
Insulator	PTFE

% Please ask us for the cable assemblies to assure its performance.

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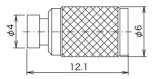
▶Plug

Crimp Type



Applicable 4.4			Fin	ish	Assembly		
Part Number	Cable	φΑ	L	Outer Conductor	Center Conductor	Instruction	Crimp Tool
27DP-P-1.5QEV-AA-CF	1.5DS-QEHV	4.8 17.5		Ni	Au	1	CR-H-1160
ZTDF-F-1.5QLV-AA-CF	1.5D-QEV	4.0	17.5	INI	Au	'	CN-11-1100
27DP-P-1.5QEW-AA-CF	1.5D-2W	4.8	17.5	Ni	Au		CR-H-1160
ZTDF-F-1.5QLW-AA-OF	1.5D-QEW	4.0	17.5	INI	Au		CK-11-1100
27DP-SP-1.5DHQS-CR1-CF	1.5D-HQ·SUPER	4.8	18.1	Ni	Au		CR-H-1156A
27DP-SP-2.5DHQS-CR1-CF	2.5D-HQ·SUPER	5.9	18.2	Ni	Au		CR-H-1163

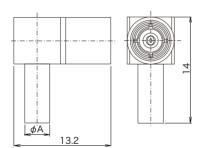
Semi-Flexible Cable Type



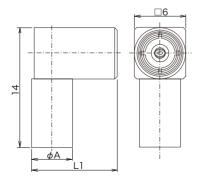
	Applicable	Fir	Assembly	
Part Number Cable		Outer Conductor	Center Conductor	Instruction
27DP-SP-FCCAV1-SO-CF	FCCAVG1	Ni	Au	

▶ Right Angle Plug

Crimp Type



	Applicable		Fin	ish	Assembly	Crimp Tool								
Part Number	Cable	φΑ	Outer Conductor	Center Conductor	Instruction									
27DP-LP-0.8DW-CR1-CF	0.8D-QEW	3.4	Ni	Au		CR-H-K0012-04								
27DD D 1 FOEV AA CE	1.5DS-QEHV		4.0	4.0	4.8	4.0	4.0	4.0	10	4.0	Ni	۸.,		CR-H-1160
27DP-LP-1.5QEV-AA-CF 1.5D-QEV		4.0	INI	Au		CK-H-1100								
27DP-LP-1.5QEW-AA-CF	1.5D-QEW	4.8	Ni	Au		CR-H-1160								

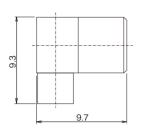


Applicable				Fir	ish	Assembly			
Part Number	Cable	φΑ	Ll	Outer Conductor	Center Conductor	Instruction	Crimp Tool		
	1.5D-2V								
27DP-LP-1.5DW-CR1-CF	1.5D-2W	4.8	4.8	4.8	10.0	Ni	Au	2	CR-H-1156A
	1.5D-HQ·SUPER								
27DP-LP-2.5DHQS-CR1-1	2.5DHQ.SUPER	5.9	15.9	Ni	Au		CR-H-1163		
21 DF-LF-2.3DHQ3-CN1-1	2.6D-XFV-A	5.9	15.9	INI	Au		CN-11-1103		

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▶ Right Angle Plug

Semi-Flexible Cable Type

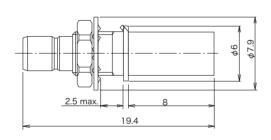


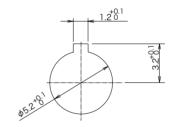
	Applicable	Fin	Assembly	
Part Number	Cable	Outer Conductor	Center Conductor	Instruction
27DP-LP-FCCAV1-SO-1-CF	FCCAVG1	Ni	Au	

Bulkhead Jack

Crimp Type

	Applicable	Fin	ish	Assembly	
Part Number Cable		Outer Conductor	Center Conductor	Instruction	Crimp Tool
27DP-BJ-1.5DW-CR1-CF	1.5D-QEW	Ni	Au		CR-H-1156A

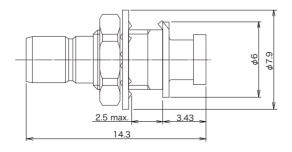


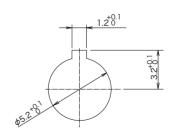


Panel Mounting Dimensions

Semi-Flexible Cable Type

	Applicable	Fii	Assembly	
Part Number	Cable	Outer Conductor	Center Conductor	Instruction
27DP-BJ-FCCAV1-SO-CF	FCCAVG1	Ni	Au	



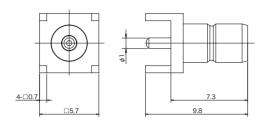


Panel Mounting Dimensions

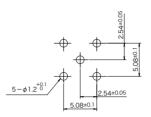
 $[\]ensuremath{\mathbb{O}}$ Specifications and/or dimensions in this catalog are subject to change without notice.

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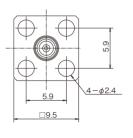
Receptacle

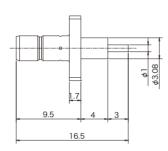


Part Number	Finish				
	Outer Conductor	Center Conductor			
27DP-SR-PC-1-CF	Ni	Au			

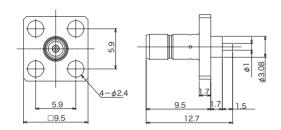


PCB Mounting Dimensions

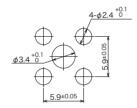




	Finish			
Part Number	Outer Conductor	Center Conductor		
27DP-SR-1-CF	Ni	Au		



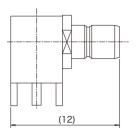
	Finish			
Part Number	Outer Conductor	Center Conductor		
27DP-SR-2-CF	Ni	Au		

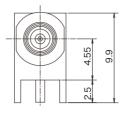


Panel Mounting Dimensions

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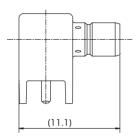
▶Right Angle Receptacle

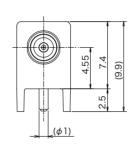




Part Number	Finish			
	Outer Conductor	Center Conductor		
27DP-LR-PC-1-CF	Ni	Au		

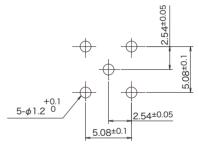
% Cheap version includes die-casting 27DP-LR-PC-14,





	Finish		
Part Number	Outer Conductor	Center Conductor	
27DP-LR-PC-14	Ni	Au	

* Accomplished low cost by using press and molding method.



PCB Mounting Dimensions

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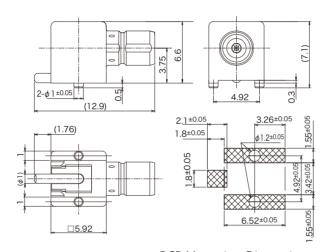
▶Right Angle Receptacle

		Fin	ish		Minimum Ordering	Note	
	Part Number	Outer Conductor	Center Conductor	Package Style	Quantity		
	27DP-LR-PS-1-500	Au	Au Tape ar 500 pc		1 reel	27DP-LR-SP-1 500pcs. Package	

- ***** SMT mounting style
- * Tape and reel package is available.
- * The exposing contact tail enables you to be visible the soldering condition after reflow process.
- * Accomplished low cost by using press and molding method.
- % With regard to orders less than 500, please contact us.

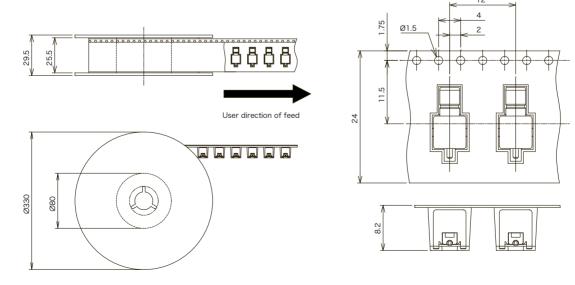
Connector Dimensions

27DP-LR-PS-1



PCB Mounting Dimensions

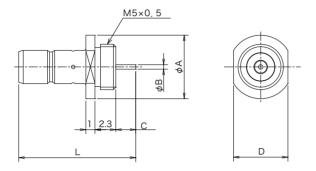
Tape and Reel Dimensions



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▶Bulkhead Receptacle

Part Number						Finish	
	φΑ	φB	С	D	L	Outer Conductor	Center Conductor
27DP-BR-9-CF	7.0	0.5	2.2	6.0	12.9	Ni	Au
27DP-BR-11-CF	6.2	0.8	3.0	5.4	13.7	Ni	Au



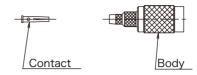
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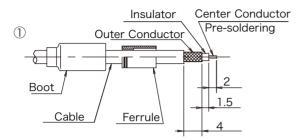
▶ Assembly Instruction (1)

Parts Configuration







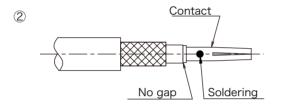


① Show it to illustration dimensions through a boot to a cable.

(Note) Be careful about the directionality of the ferrule.

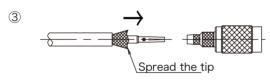
(Note) Please be careful to not damage the outer conductor, insulator and center conductor.

Pre-soldering the center conductor.



② Soldering cable inside conductor and a contact. (Note) Please be careful to not deform the insulator by heat.

(Note) When the solder is stick out, please shave the extra solder.

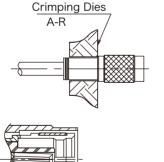


③ Spread the tip of the outside conductor.

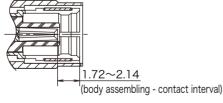


④ Insert a cable in body assembling and cover with the ferrule which let go through beforehand on an outside conductor, Crimp.

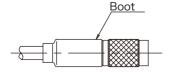
(Note) The thing by which a gap between the body assembly ferrule is less than 0.5.



(5)



⑤ Cover the boot on the ferule.

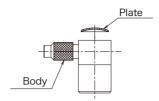


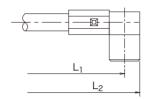
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► Assembly Instruction (2)

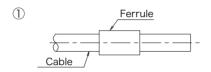
Parts Configuration



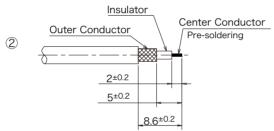




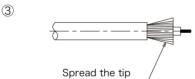
The cable length required for the cable assembly. L $L=L_1+0.6$ $L=L_2-2.5$



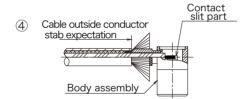
1) Insert the ferrule into the cable.



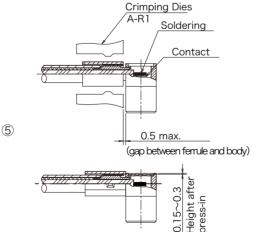
② Handle a cable end face to illustration dimensions. (Note) Please be careful to not damage the outer conductor and center conductor. Pre-solder the center conductor.



③ Disentangle an outside conductor uniformly and spread the tip.



- ④ Insert body assembling between an outside conductor, insulators.
- (Note) Internal conductor in a contact slit more than half Being satisfied.
- (Note) Aya cover evenly over the first knurling the outer conductor. cover with the ferrule which let go through beforehand on an outside conductor and knock it against body system and crimp it.
- (Note) The gap between body and ferrule is within 0.5. Solder cable inside conductor and a contact.
- (Note) Please be careful to not deform the insulator by heat.



⑤ Compress the plate into the body.

Please varify the latest specifications with our drawings