SMB Type Coaxial Connector

27DP Series

DDK Ltd.



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



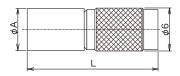
Item	Material / Finish
Shell (Body)	Copper Alloy / Au or Ni Plating
Contact (Male)	Copper Alloy / Au Plating
Contact (Female)	Copper Alloy / Au Plating
Insulator	PTFE

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

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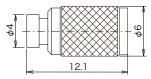
▶Plug

Crimp Type



	Applicable			Fin	ish	Assembly			
Part Number Cable ϕA		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		
ZIDF-F-1.5QLV-AA-CI	1.5D-QEV	4.0	17.5	INI	Au	'	CK-11-1100		
27DP-P-1.5QEW-AA-CF	7DP-P-1.5QEW-AA-CF 1.5D-2W 4.8		175	17.5	0 175	Ni	Au		CR-H-1160
27DF-F-1.5QLW-AA-CF	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-1156		
27DP-SP-2.5DHQS-CR1-CF	2.5D-HQ·SUPER	5.9	18.2	Ni	Au		CR-H-1163		

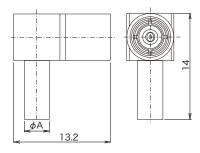
Semi-Flexible Cable Type



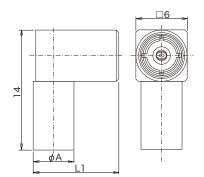
	Applicable	Fir	Assembly	
Part Number	Part Number Cable		Center Conductor	Instruction
27DP-SP-FCCAV1-SO-CF	FCCAVG1	Ni	Au	

▶ Right Angle Plug

Crimp Type



	Applicable		Fin	ish	Assembly		
Part Number	Cable	φΑ	Outer Conductor	Center Conductor	Instruction	Crimp Tool	
27DP-LP-0.8DW-CR1-CF	0.8D-QEW	3.4	Ni	Au		CR-H-K0012-04	
27DP-LP-1.5QEV-AA-CF	1.5DS-QEHV	40	4.8	Ni	Au		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	

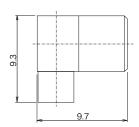


Applicable				Finish		Assambly			
Part Number	Cable	φΑ	L1	Outer Conductor	Center Conductor	Assembly Instruction	Crimp Tool		
27DP-LP-1.5DW-CR1-CF	1.5D-QEW	4.8	10.0	Ni	Au	2	CR-H-1156		
27DP-LP-1.5DHQS-CR1-CF	1.5D-HQ-SUPER	10	10.0	Ni	Au		CR-H-1156		
270P-LP-1.3DFQ3-CK1-CF	1.5D-QEV	4.8	4.0	4.0	10.0	INI	Au		CK-H-1130
27DD LD 2 EDHOC CD1 CE	2.5D-HQ-SUPER	5.9	110	Ni	۸.,		CR-H-1163		
27DP-LP-2.5DHQS-CR1-CF	2.6D-XFV-A	5.9	11.0	INI	Au		CN-II-1103		

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▶ Right Angle Plug

Semi-Flexible Cable Type

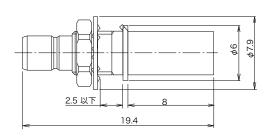


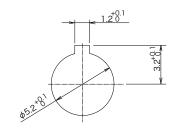
	Applicable	Fin	Assembly	
Part Number	Cable	Outer Conductor	Center Conductor	Instruction
27DP-LP-FCCAV1-SO-1-CF	FCCAVG1	Ni	Au	

▶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-1156

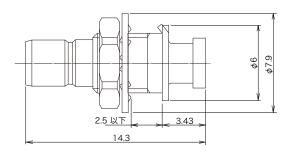


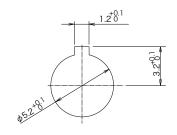


Panel Mounting Dimensions

Semi-Flexible Cable Type

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



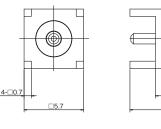


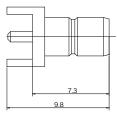
Panel Mounting Dimensions

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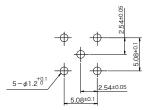
Please varify the latest specifications with our drawings.

Receptacle

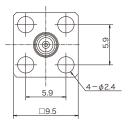


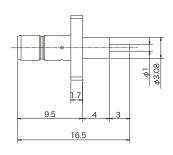


	Finish			
Part Number	Outer Conductor	Center Conductor		
27DP-SR-PC-1-CF	Ni	Au		

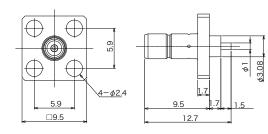


PCB Mounting Dimensions

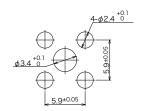




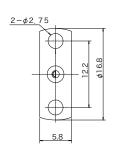
		Finish			
Part Number	Outer Conductor	Center Conductor			
27DP-SR-1-CF		Ni	Au		

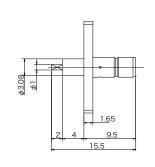


	Finish			
Part Number	Outer Conductor	Center Conductor		
27DP-SR-2-CF	Ni	Au		

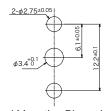


Panel Mounting Dimensions





	Finish			
Part Number	Outer Conductor	Center Conductor		
27DP-SR2-3-CF	Ni	Au		

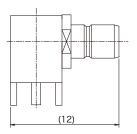


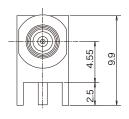
Panel Mounting Dimensions

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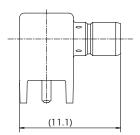
Right Angle Receptacle

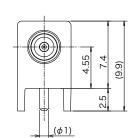




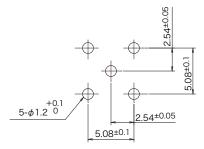
	Finish		
Part Number	Outer Conductor	Center Conductor	
27DP-LR-PC-1-CF	Ni	Au	

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





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



PCB Mounting Dimensions

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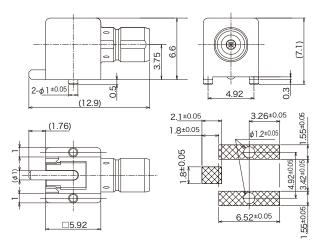
▶Right Angle Receptacle

	Finish			Minimum Ordering		
Part Number	Outer Conductor	Center Conductor	Package Style	Quantity	Note	
27DP-LR-PS-1-500	Au	Au	Tape and Reel 500 pcs./ reel	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.
- $\ensuremath{\ensuremath{\%}}$ With regard to orders less than 500, please contact us.

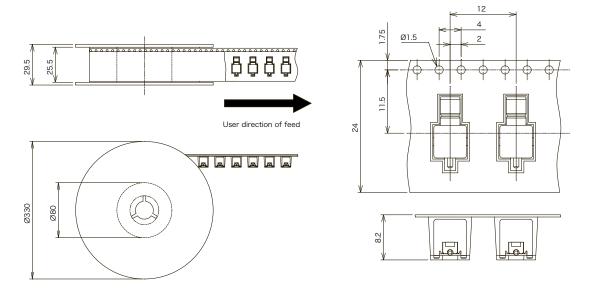
Connector Dimensions

27DP-LR-PS-1



PCB Mounting Dimensions

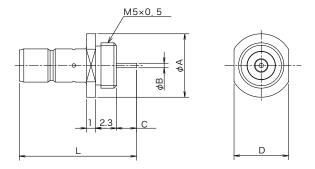
Tape and Reel Dimensions



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▶Bulkhead Receptacle

	φA φB				Finish		
Part Number		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

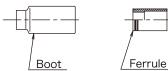


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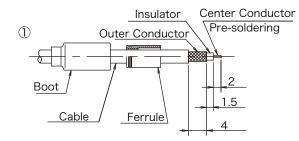
Please varify the latest specifications with our drawings.

▶ Assembly Instruction (1)

Parts Configuration



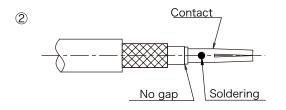




① Show it to illustration dimensions through a boot to a cable.

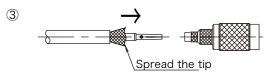
(Note) Be careful about the directionality of the ferrule.

(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.



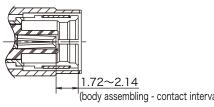
③ Spread the tip of the outside conductor.



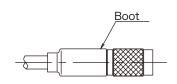
4 Insert a cable in body assembling and cover with the ferrule which let go through beforehand on an outside conductor, Crimp.

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





(body assembling - contact interval) (5)



⑤ Cover the boot on the ferule.

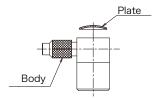
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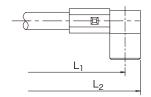
http://www.ddknet.co.jp

Assembly Instruction (2)

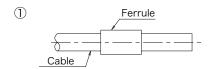
Parts Configuration



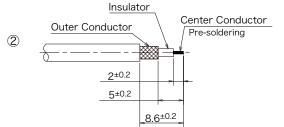




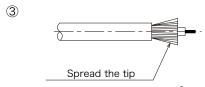
The cable length required for the cable assembly. L $L=L_1+0.6$ $L=L_2-2.5$



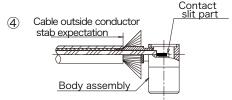
(1) Insert the ferrule into the cable.



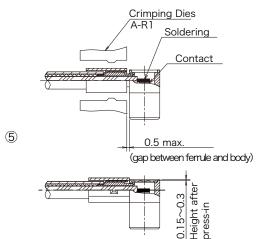
② Handle a cable end face to illustration dimensions. (Note) Please be careful to not damage the outer conductor and center conductor. Pre-solder the center conductor.



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.

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