

# CN10 SERIES CONNECTORS

## Miniature Coaxial Connectors



### FEATURES

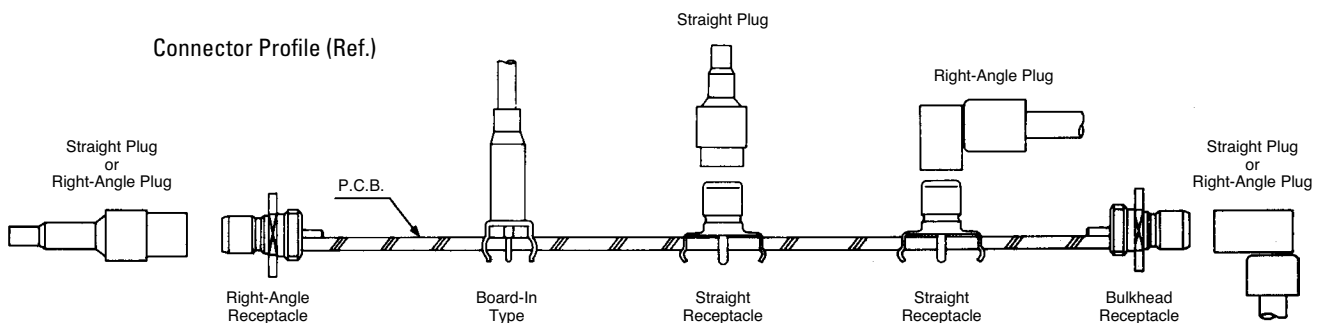
- Miniature connectors for board-to-coaxial jumper cable applications. Designed per MIL SMB type and JIS-C-5415
- Applicable frequency range is zero through 3 GHz. High impedance matching: the voltage standing wave ratio is less than 1.1 (Right-angle receptacle is 1.2 max. voltage standing wave ratio.)
- Low profile: the height on the board is 8mm (.315") to 9mm (.354") when a right-angle plug is mated with a straight receptacle
- An extrusion on the shell innerwall of the plug ensures mechanical and electrical integrity
- Plugs are supplied as cable assemblies
- The straight receptacle and board-in plug have kinked leads to hold connector during soldering



Miniature connectors for board-to-jumper coaxial cable applications intended for transmission of high frequency waves and high density packaging in electronic devices. With the combination of three types of receptacle (straight, right-angle and bulkhead) and three types of plug (straight, right-angle and board-in), it is feasible to have various connection styles. Suitable for use in automotive telephone sets, portable telephone sets, various communication devices and electronic measuring instruments.

### GENERAL SPECIFICATIONS

Characteristic Impedance	50 ohms
Current Rating	DC 2 Amps per contact
Voltage Rating	100 VAC r.m.s. (for one minute)
Dielectric Withstanding Voltage	200 VAC r.m.s. (for one minute)
Insulation Resistance	500 megohms min. (DC 250 V)
Contact Resistance	Center Contacts: 8 milliohms (max.) Outer Contacts: 8 milliohms (max.)
Voltage Standing Wave Ratio	1.2 max. (DC -3 GHz)
Total Mating Force	49N (max.)
Total Unmating Force	8.8 N (max.)
Operating Temperature Range	-55°C to +165°C (Connector only) Only right-angle receptacle is -40°C ~ 85°C
Applicable Cables	1.5 D-QEV (1.5 D-2V) 1.5 D-QEW (1.5 D-2W) 0.8 D-QEW (0.8 D-2W)



• Please consult JAE for verification of product availability.

Dimensions and specifications subject to change without notice.

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### STANDARD CABLE ASSEMBLIES (PLUG INCLUDED)

- For plug side, cable harnessed plug will be supplied
- The length (L in the figure below) is 100mm (3.937")
- For other lengths, consult JAE

### Part No. Explanation

	CN10	-	CA	100	-	RPL	-	*	-	E
	CN10	-	CA	100	-	BI	PL	-	*	E
Series										
Cable Harness Mark										
Cable Length										
L - 100mm										
Connector Configuration										
PL - Straight Plug										
RPL - Right-Angle Plug										
BI - Board-In Plug										
Connector Configuration										
PL - Straight Plug										
RPL - Right-Angle Plug										
Applicable Cable										
15 DV - 1.5D-QEV (1.5D-2V)										
15DW - 1.5D-QEW (1.5D-2W)										
8 DW - 0.8D-QEW (0.8D-2W)										
Lead Free Version										

		Applicable Cable	Part Number
			1.5D -QEV (1.5D-2V)
Single-end termination	<b>• Right-angle plug</b> 	1.5D -QEW (1.5D-2W)	CN10-CA100-RPL-15DW
		0.8D -QEW (0.8D-2W)	CN10-CA100-RPL-8DW
		1.5D -QEV (1.5D-2V)	CN10-CA100-PL-15DV
	<b>• Straight plug</b> 	0.8D -QEW (0.8D-2W)	CN10-CA100-PL-15DW
		1.5D -QEV (1.5D-2V)	CN10-CA100-PL-8DW
		0.8D -QEW (0.8D-2W)	CN10-CA100-PL-15DW
Double-end termination	<b>• Right-angle plug</b> 	1.5D -QEW (1.5D-2W)	CN10-CA100-PL-8DW
		0.8D -QEW (0.8D-2W)	CN10-CA100-RPL-RPL-15DW
		1.5D -QEV (1.5D-2V)	CN10-CA100-RPL-RPL-8DW
	<b>• Right-angle plug and Board-in type</b> 	1.5D -QEW (1.5D-2W)	CN10-CA100-BI-RPL-15DV
		0.8D -QEW (0.8D-2W)	CN10-CA100-BI-RPL-15DW
		1.5D -QEV (1.5D-2V)	CN10-CA100-BI-RPL-8DW
	<b>• Straight plug and Board-in type</b> 	1.5D -QEW (1.5D-2W)	CN10-CA100-BI-PL-15DV
		1.5D -QEW (1.5D-2W)	CN10-CA100-BI-PL-15DW
		0.8D -QEW (0.8D-2W)	CN10-CA100-BI-PL-8DW
	<b>• Straight plug and Right-angle plug</b> 	1.5D -QEV (1.5D-2V)	CN10-CA100-RPL-15DV
		1.5D -QEW (1.5D-2W)	CN10-CA100-RPL-15DW
		0.8D -QEW (0.8D-2W)	CN10-CA100-RPL-8DW

• Please consult JAE for verification of product availability.

Dimensions in mm (inches).