DIN Inserts

Product Facts

- Meets requirements of DIN 41626 and CECC 22330
- Suitable for DIN 41612 Type M Connectors (Eurocard), Siedecon, and Z-PACK 2mm HM Connectors
- Meets DIN Performance Level II
- Crimp termination for inner and outer conductors (cable mount only) eliminates the need for solder
- Right-angle and vertical style board mount pin and socket contacts
- Board mount product available with both solder and compliant tails
- Straight cable mount pin and socket contacts for RG 316, and RG 179 cable
- Contact impedance of 50 and 75 ohms for cable mount and 50 ohms for board mount

Coaxial inserts according to CECC 22 330 and highcurrent inserts (CECC specification under preparation) can be used in conjunction with a DIN 41612 style M contact base (CECC 75 101-801), SIEDECON, and Z-PACK 2mm HM connectors.

Coaxial inserts have a contact system based on the pin-socket principle with the same dimensions as the Series 1.0/2.3 coaxial connectors and are plug-compatible. The product family is represented by various 50Ω and 75Ω styles that can be used far into the GHz range. The high mounting density (pitch between adjacent contacts starting at 7.5 mm) and installation into the contact base, by means of a "snap-in" lock, make the inserts particularly well suited for applications.

Due to the centering,

- coaxial plugs are installed in contact bases with audio-frequency (AF) female contacts
- coaxial jacks are installed in contact bases with AF male contacts.

The high-quality materials used with coaxial inserts ensure a high grade of service even in an industrial atmosphere.

Technical Data

Electrical and mechanical characteristics of coaxial inserts in accordance with DIN 41626 Part 2 and CECC 22 330 Characteristic Impedance - 50/75 Ω

Frequency Range — up to 2 GHz Reflection Factor Up To 2 GHz 1 — ≤ 0.10

Insulation Resistance — Initial value — $\ge 1 \text{ G}\Omega$ After stressing — $\ge 200 \text{ M}\Omega$

 $\label{eq:screening} \begin{array}{l} \mbox{Screening Effectiveness} \longrightarrow 70 \mbox{ dB} \\ \mbox{Inner Conductor Contact Resistance} \\ \mbox{After Stressing} \longrightarrow \le 10 \mbox{ m}\Omega \\ \mbox{Outer Conductor Continuity After} \\ \end{array}$

 $\begin{array}{l} \mbox{Stressing} & - \leq 7.5 \mbox{ m}\Omega \\ \mbox{Voltage Proof 2 } - \\ \mbox{Flexible Cables (RG 316)} \\ \mbox{At sea level} & - 750 \mbox{ V}, 50 \mbox{ Hz} \\ \mbox{At 20 km altitude} & - 150 \mbox{ V}, 50 \mbox{ Hz} \\ \end{array}$

Working Voltage ² — Flexible Cables (RG 316)

At sea level — 350 V, 50 Hz At 20 km altitude — 65 V, 50 Hz

Service Life — 500 cycles Climatic Category — 55/125/56

Notes

- 1 Guideline dimensions, depending on cable type and connector style.
- 2 Some cable types suitable for use with these connectors have lower characteristic values than specified here.

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Dimensions are in millimeters and inches unless otherwise specified. Values in brackets are standard equivalents. Dimensions are shown for reference purposes only. Specifications subject to change. USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803 South America: 55-11-2103-6000 Hong Kong: 852-2735-1628 Japan: 81-44-844-8013 UK: 44-8706-080-208



RF Coax Connectors

DIN Inserts (Continued)



Vertical PC Board Mount, Compliant





Recommended PC Board Layout

Right-Angle PC Board Mount, Compliant



Туре	Housing Type	Application Tooling	Part No.
Vertical PCB Socket, Compliant	Z-PACK 2mm HM Male	904800-1	5148385-1
Rt. Angle PCB Pin, Compliant	Z-PACK 2mm HM Female	904805-1 904804-1 Support Anvil	5148386-1

Coaxial Inserts to SMA Adapters

Coaxial Insert Plug to SMA Jack





Coaxial Insert Socket to SMA Jack



Note: Part Numbers are RoHS compliant except:
Indicates non-RoHS compliant.

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DIN Inserts (Continued)

Coaxial Inserts (50 Ω /75 Ω)

Bulkhead Cable Jack for

male connectors



Ø Max.	Cable Type	Width Across Flats of Hex Profile	Part No.
2.6 .102	RG 316 (50 Ω)	3.2 .126	1392020-1
2.67 .105	RG 179 (75 Ω)	3.2 .126	3-1393668-4

Bulkhead Cable Jack for

female connectors



Ø Max.	Cable Type	Width Across Flats of Hex Profile	Part No.
2.6 .102	RG 316 (50 Ω)	3.2 .126	1392019-1
2.67 .105	RG 179 (75 Ω)	3.2 .126	3-1393668-0

Right-Angle Bulkhead Jack for

male connectors



Ø Max.	Cable Type	Width Across Flats of Hex Profile	Part No.
2.6 .102	RG 316 (50 Ω)	3.2	4 4000000 0
2.67 .105	RG 179 (75 Ω)	.126	1-1393668-2
2.67 .105	RG 179 (75 Ω)	3.2 .126	2-1393668-8
2.67 .105	RG 179 (75 Ω)	3.2 .126	3-1393668-6
	2.6 .102 2.67 .105 2.67 .105 2.67 2.67	2.6 RG 316 (50 Ω) 102 RG 179 (75 Ω) 2.67 RG 179 (75 Ω) 2.67 RG 179 (75 Ω) 2.67 RG 179 (75 Ω)	$\begin{array}{c c c c c c c c c c c c c c c c c c c $

Right-Angle Bulkhead Plug for female connectors



Dim A	Ø Max.	Cable Type	Width Across Flats of Hex Profile	Part No.
18.7 .736	2.6 .102	RG 316 (50 Ω)	3.2 .126	1393668-4
22.3 .878	2.6 .102	RG 316 (50 Ω)	3.2 .126	1393668-8
18.7 .736	3.0 .118	RD 316 (50 Ω)	3.6 .142	1393668-7
18.7 .736	2.67 .105	RG 179 (75 Ω)	3.2 .126	2-1393668-4

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DIN Inserts (Continued)

Coaxial Inserts (50 Ω /75 Ω) (Continued)



Right-Angle Bulkhead Jack, PC Board for DIN 41612 M

male connectors



Part No.
1-1393662-4

Right-Angle Bulkhead Plug, PC Board for SIEDECON female connectors



Part No.
1-1393662-2



Recommended Mounting holes for Part No. 1-1393662-2 and 1-1393662-4

Note: Part Numbers are RoHS compliant except:
Indicates non-RoHS compliant.

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