

SMT Connectors

SMT Steckverbinder



Advantages and Special Features

This SMT connector was specifically developed for use with fully automatic assembly and solder procedures. The following special criteria were taken into account:

- Loading with „Pick and Place“ procedure via a vacuum grabber
- Application with „Tape on Reel“ packaging
- Insulator in heat-resistant plastic
- RoHS compliant, 260°C/10s, for reflow soldering

Vorteile und Merkmale im Überblick

Diese SMT-Steckverbinder wurden gezielt für den Einsatz mit vollautomatischen Montage- und Lötverfahren entwickelt. Folgende spezielle Kriterien wurden dabei berücksichtigt:

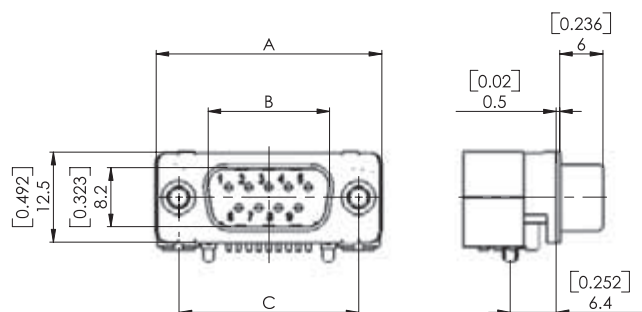
- Bestückung im „Pick and Place“-Verfahren durch Vakuum-Greifer
- Einsatz mit „Tape on Reel“-Verpackungen
- Isolierkörper aus Hochtemperatur-Kunststoff
- RoHS konform, 260°C/10s, zum Reflow-Löten geeignet

Shell Dimensions

Gehäuseabmessungen

Pin Connector Shell

Stiftsteckverbindergehäuse

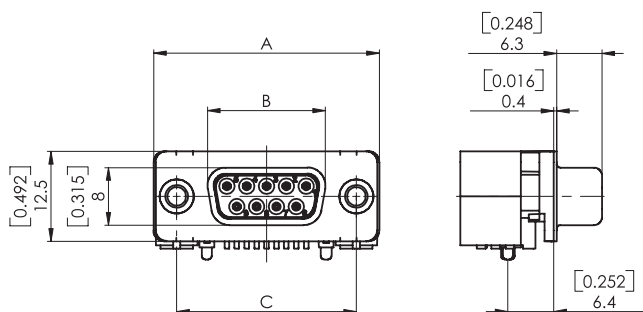


Shell Size	No. of Contacts	A	B	C
Gehäusegröße	Polzahl	±0,1 (±0.004)	±0,4 (±0.016)	+0,2 (+0.008)
				±0,15 (±0.006)
1	9	31,4 (1.236)	16,9 (0.665)	25,0 (0.984)
2	15	39,2 (1.543)	25,2 (0.992)	33,3 (1.311)
3	25	53,2 (2.094)	38,9 (1.531)	47,04 (1.852)

Dimensions in mm (inch) - Abmessungen in mm (inch)

Socket Connector Shell

Buchsensteckverbindergehäuse



Shell Size	No. of Contacts	A	B	C
Gehäusegröße	Polzahl	±0,1 (±0.004)	±0,4 (±0.016)	- 0,2 (- 0.008)
				±0,15 (±0.006)
1	9	31,4 (1.236)	16,4 (0.646)	25,0 (0.984)
2	15	39,2 (1.543)	24,7 (0.972)	33,3 (1.311)
3	25	53,2 (2.094)	38,5 (1.516)	47,04 (1.852)

Dimensions in mm (inch) - Abmessungen in mm (inch)



Materials and Platings

Materialien und Oberflächen

Shell <i>Gehäuse</i>	Steel <i>Stahl</i>
Insulator <i>Isolierkörper</i>	Heat resistant, glass filled (UL94V-0) <i>hochtemperaturbeständig, glasfaserverstärkt (UL94V-0)</i>
Relative temperature index according to UL 746 B <i>rel. Temperaturindex nach UL 746 B</i>	≥150 °C (≥302 °F)
Heat deflection temperature limit according to DIN 53461 HDT/A <i>Formbeständigkeitstemperatur nach DIN 53461 HDT/A</i>	≥276 °C (≥529 °F)
Sub temperature limit <i>Untere Grenztemperatur</i>	-55 °C (-67 °F)
Shell plating (standard) <i>Gehäuseoberfläche (Standard)</i>	Tin plated over nickel* <i>verzinkt über Nickel*</i>
Shell (standard) <i>Gehäuse (Standard)</i>	Pin connector shell with dimples <i>Stiftsteckverbindergehäuse mit Kontaktnoppen</i>
Contact material <i>Kontaktmaterial</i>	Copper alloy <i>Kupfer-Legierung</i>

*On request nickel plated over copper / *Auf Anfrage vernickelt über Kupfer

Electrical Data

Elektrische Daten

Current rating at room temperature <i>Maximale Stromstärke bei Raumtemperatur</i>	5 A
Test voltage between 2 contacts / shell and contact <i>Prüfspannung zwischen 2 Kontakten bzw. Kontakt u. Gehäuse</i>	1200 V / 1 min.
Insulation resistance between contacts <i>Isolationswiderstand Kontakt / Kontakt</i>	≥ 5000 MΩ
Volume resistivity <i>Spezifischer Durchgangswiderstand</i>	≤ 10 ¹⁶ Ω cm

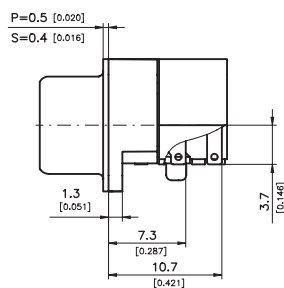


Right Angled Signal Contacts (SMT)

Abgewinkelte Signalkontakte (SMT)

Overall Height 3.7 mm (0.146")

Bauhöhe 3,7 mm

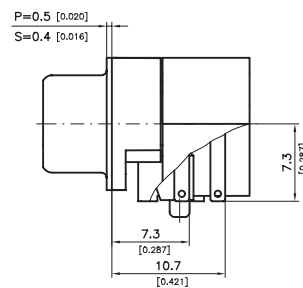


Contact design
Kontaktvariante

101

Overall Height 7.3 mm (0.287")

Bauhöhe 7,3 mm



Contact design
Kontaktvariante

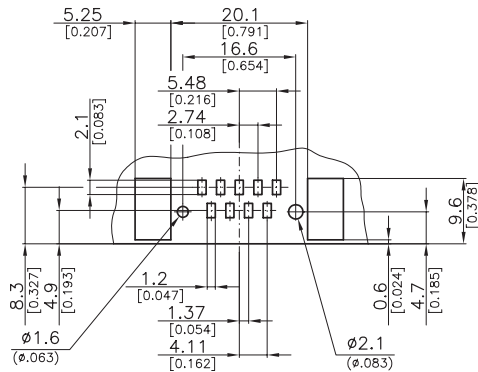
107

PCB Layout

Leiterplattenlayout

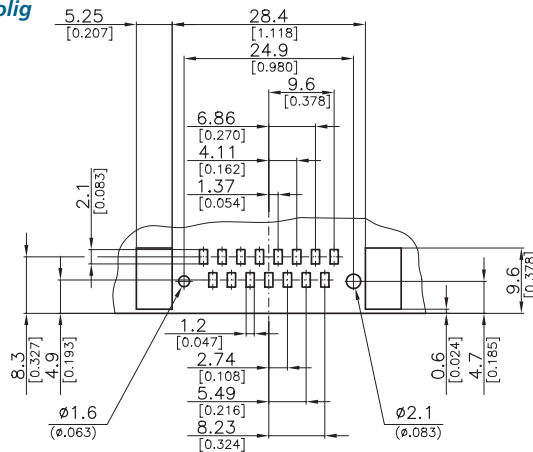
9 Contacts

9-polig



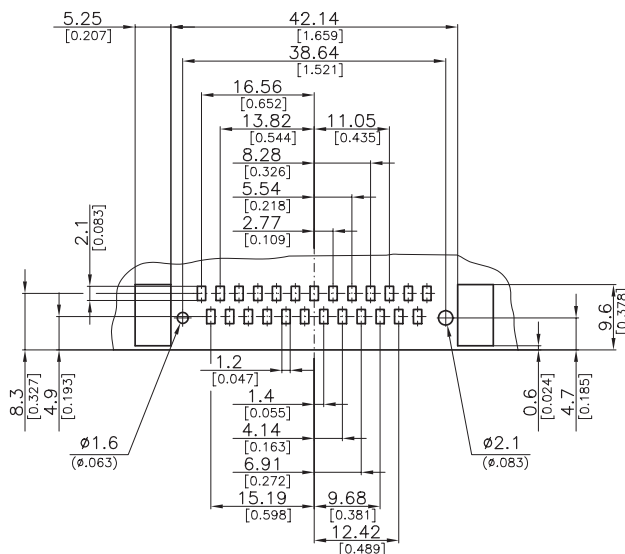
15 Contacts

15-polig



25 Contacts

25-polig



Summary of Connector Designs

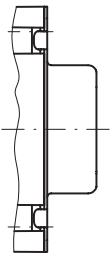
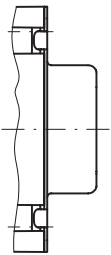
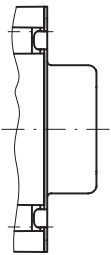
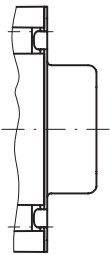
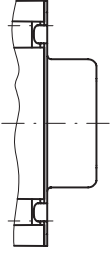
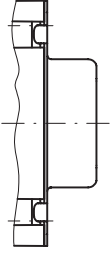
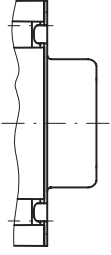
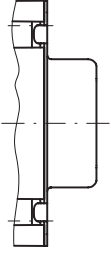
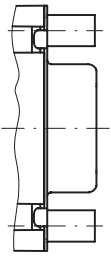
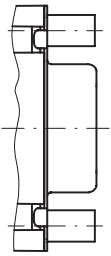
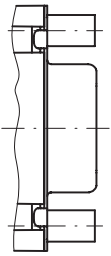
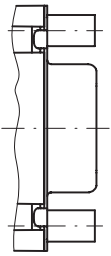
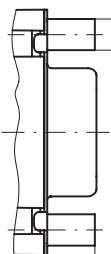
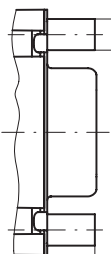
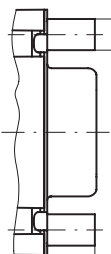
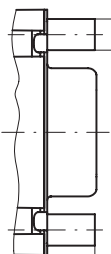
Übersicht Steckverbindervarianten

Other dimensions possible on request

Andere Abmaße auf Anfrage möglich

Please see order code on page 30.

Siehe auch Bestellschlüssel auf Seite 30.

FSL... Connector Designs FSL...Steckverbinder-varianten	No. of Contacts Polzahl	Contact Design Kontaktvariante	101		107	
			09/15/25	09/15/25	09/15/25	09/15/25
4-40 UNC		...				
M3		...				
4-40 UNC		...				
M3		...				



Packing Units

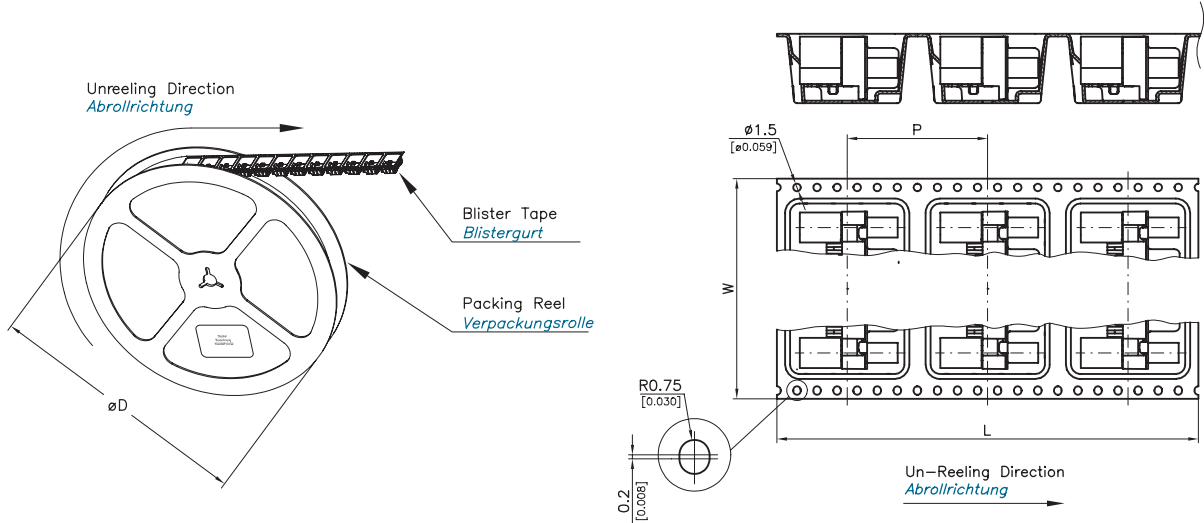
SMT connectors are located in the blister tape in the unreeling direction of the tape.

The connectors are not usually stamped, as they are normally delivered in blister tape on a reel (Tape on reel) and the labels can be found on the reel.

Verpackungseinheiten

Lageorientierung der SMT-Steckverbinder im Blistergurt in Abrollrichtung des Blistergurtes.

Die Steckverbinder werden standardmäßig nicht bedruckt, da die Steckverbinder üblicherweise in einem Blistergurt auf Rollen (Tape on Reel) geliefert werden und sich das Etikett auf der Spule befindet.



Connector Steckverbinder	Connectors per Reel Steckverbinder pro Rolle	D	W	P	L
FSL...09P/S101	182	330,2 (13)	44,0 (1.732)	28,0 (1.102)	5124 (201.732)
FSL...15P/S101	182	330,2 (13)	56,0 (2.205)	28,0 (1.102)	6804 (267.874)
FSL...25P/S101	182	330,2 (13)	72,0 (2.835)	28,0 (1.102)	6804 (267.874)
FSL...09P/S107	140	330,2 (13)	44,0 (1.732)	28,0 (1.102)	3948 (155.433)
FSL...15P/S107	140	330,2 (13)	56,0 (2.205)	28,0 (1.102)	5460 (214.961)
FSL...25P/S107	140	330,2 (13)	72,0 (2.835)	28,0 (1.102)	5460 (214.961)

Dimensions in mm (inch) - Abmessungen in mm (inch)

Further packing units on request.

Depending upon the automating medium used, please request the minimum order quantities (see page 445).

Weitere Verpackungseinheiten auf Anfrage.

Bitte erfragen Sie abhängig von dem verwendeten Automatisierungshilfsmittel (siehe Seite 445) die Mindestbestellmenge.