

Technical Characteristics SMG

Technische Daten SMG

Electrical characteristics

Elektrische Daten

Characteristic impedance	50 Ω	Wellenwiderstand
Frequency range	0...4 GHz	Frequenzbereich
VSWR (straight contacts)	≤ 1.30 typ.	VSWR (gerader Kontakt)
Insertion loss (dB)	0.1 dB max. /1GHz typ.	Dämpfung (dB)
Insulation resistance	1000 MΩ	Isolationswiderstand
Center contact resistance	≤ 5.0 mΩ	Übergangswiderstand Innenleiter
Outer contact resistance	≤ 2.5 mΩ	Übergangswiderstand Außenleiter
Test voltage	750 V rms	Prüfspannung
Working voltage	150 V rms	Betriebsspannung
Contact current	1.5 A DC typ.	Strombelastbarkeit

Mechanical characteristics

Mechanische Daten

Engagement force	8 N max.	Einsteckkraft
Disengagement force	3 N min.	Ausziehkraft
Center contact retention force	20 N min.	Innenleiter Haltekraft
Connecting operations	≥ 500	Anzahl Steckzyklen

Environmental

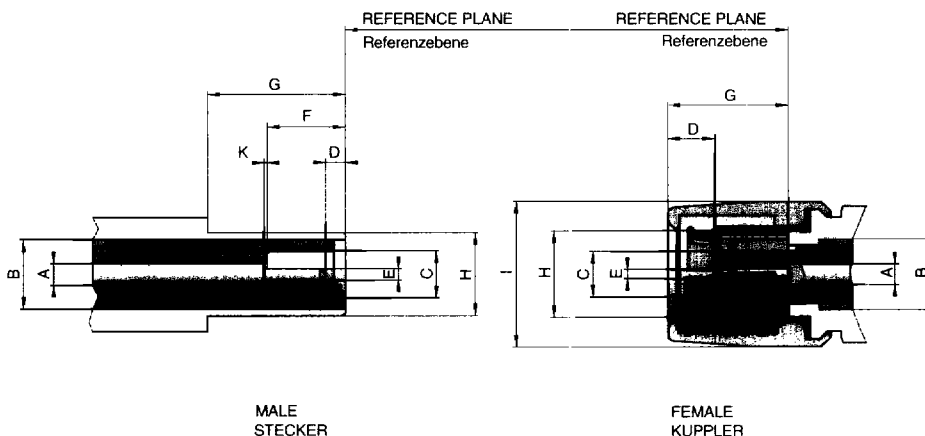
Umgebungseinflüsse

Temperature range	-65°C - +165°C	Temperaturbereich
Humidity	MIL-STD-202 Meth. 106/D	Feuchtigkeit
Shock	MIL-STD-202 Meth. 213/B	Schock
Temperature cycle	MIL-STD-202 Meth. 102/C	Temperatur Zyklen

Materials

Materialien

Body	Brass	Außenleiter
Center contact - plug	Brass	Innenleiter - Stecker
Center contact - jack	CuBe 2	Innenleiter - Kuppler
Spring	CuBe 2	federnde Kontaktteile
Insulator	PTFE	Isolator
Crimping sleeve	soft copper	Krimpblech
Gaskets	Rubber	Dichtungen
Plating body contact area	Au	Oberfläche Kontaktzone Außenleiter
Plating center contact area	Au	Oberfläche Kontaktzone Innenleiter



SMG (50 Ohm) Serie 49				
MALE		FEMALE		
STECKER		KUPPLER		
	min.	max.	min.	max.
A	0.95 nom		0.95 nom	A
B	3.05 nom		3.05 nom	B
C	2.08	2.16		2.06 C
D	0.61		1.81	2.36 D
E	0.48	0.53		1) E
F	3.40			F
G	6.00			6.10 G
H	3.66	3.71		1) H
I		6.50		6.50 I
K	0.0	0.18		

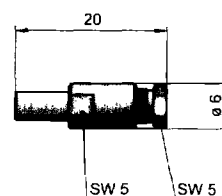
1) resilient, dim. to meet electrical and mechanical requirements  
 federnd zusammengezogen (Erfüllung elektr./mech. Forderungen)

**STRAIGHT PLUG, Clamp**

**STECKER, klemm**

Part Number	Cable Group	Assembly Instruction	Remarks
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49 S 101-001 D3	01	59 A	
49 S 101-002 D3	02 / 03	59 A	

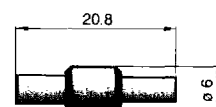


**STRAIGHT PLUG, Crimp**

**STECKER, crimp**

Part Number	Cable Group	Assembly Instruction	Crimp-Inserts	Remarks
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49 S 101-101 D3	01	59 G2	11 W 150-401	
49 S 101-102 D3	02	59 G2	11 W 150-402	
49 S 101-103 D3	03	59 G2	11 W 150-403	

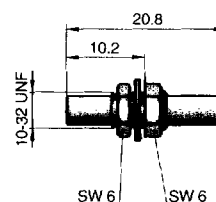


**BULKHEAD PLUG, Crimp, Rear Mount**

**GEHÄUSESTECKER, Crimp, Montage von hinten**

Part Number	Cable Group	Assembly Instruction	Panel Piercing	Crimp-Inserts	Remarks
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49 S 602-101 D3	01	59 G2	B 22	11 W 150-401	
49 S 602-102 D3	02	59 G2	B 22	11 W 150-402	
49 S 602-103 D3	03	59 G2	B 22	11 W 150-403	

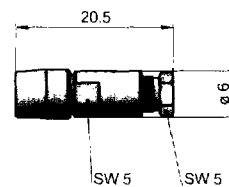


**STRAIGHT JACK, Clamp**

**KUPPLER, klemm**

Part Number	Cable Group	Assembly Instruction	Remarks
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49 K 101-001 D3	01	59 A	
49 K 101-002 D3	02, 03	59 A	



**STRAIGHT JACK, Crimp**

**KUPPLER, crimp**

Part Number	Cable Group	Assembly Instruction	Crimp-Inserts	Remarks
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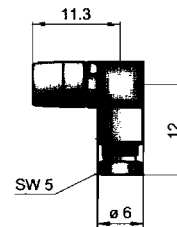
49 K 101-101 D3	01	59 G2	11 W 150-401	
49 K 101-102 D3	02	59 G2	11 W 150-402	
49 K 101-103 D3	03	59 G2	11 W 150-403	



**RIGHT ANGLE JACK, Clamp**

**WINKELKUPPLER, klemm**

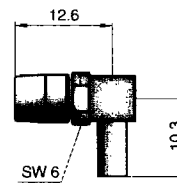
Part Number	Cable Group	Assembly Instruction	Remarks
49 K 201-001 D3	01	59 C	
49 K 201-002 D3	02, 03	59 C	



**RIGHT ANGLE JACK, Crimp**

**WINKELKUPPLER, crimp**

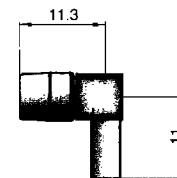
Part Number	Cable Group	Assembly Instruction	Crimp-Inserts	Remarks
49 K 201-101 D3	01	59 H	11 W 150-402	
49 K 201-102 D3	02	59 H	11 W 150-402	
49 K 201-103 D3	03	59 H	11 W 150-402	



**RIGHT ANGLE JACK, Solder-Crimp**

**WINKELKUPPLER, löt-crimp**

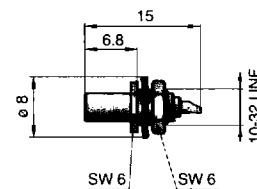
Part Number	Cable Group	Assembly Instruction	Crimp-Inserts	Remarks
49 K 204-301 D3	01	59 F	11 W 150-101	
49 K 204-302 D3	02	59 F	11 W 150-102	
49 K 204-303 D3	03	59 F	11 W 150-103	



**BULKHEAD PLUG, Front Mounting**

**GEHÄUSESTECKER, Montage von vorne**

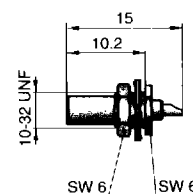
Part Number	Panel Piercing	Remarks
49 S 601-200 D3	B 22	



**BULKHEAD PLUG, Rear Mounting**

**GEHÄUSESTECKER, Montage von hinten**

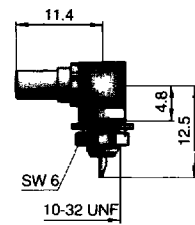
Part Number	Panel Piercing	Remarks
49 S 602-200 D3	B 22	



**RIGHT ANGLE BULKHEAD PLUG**

**WINKEL-GEHÄUSESTECKER**

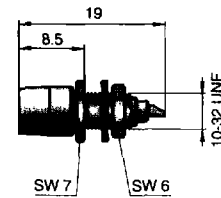
Part Number	Panel Piercing	Remarks
49 S 201-200 D3	B 22	



**BULKHEAD JACK, Front Mounting**

**GEHÄUSEKUPPLER, Montage von vorne**

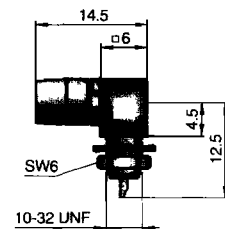
Part Number	Panel Piercing	Remarks
49 K 601-200 D3	B 22	



**RIGHT ANGLE BULKHEAD JACK**

**WINKEL-GEHÄUSEKUPPLER**

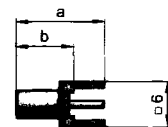
Part Number	Panel Piercing	Remarks
49 K 201-200 D3	B 22	



**PLUG for PCB**

**LEITERPLATTENSTECKER**

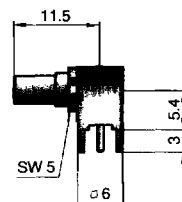
Part Number	Panel Piercing	Remarks
49 S 101-400 D3	B 30	a = 11.5; b = 7.5
49 S 102-400 D3	B 30	a = 16.5; b = 13.0



**RIGHT ANGLE PLUG for PCB**

**LEITERPLATTEN-WINKELSTECKER**

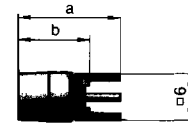
Part Number	Panel Piercing	Remarks
49 S 201-400 D3	B 30	



**JACK for PCB**

**LEITERPLATTENKUPPLER**

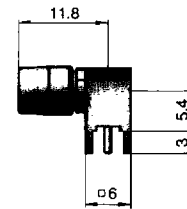
Part Number	Panel Piercing	Remarks
49 K 101-400 D3	B 30	a = 14; b = 10
49 K 102-400 D3	B 30	a = 12.6; b = 8.6



**RIGHT ANGLE JACK for PCB**

**LEITERPLATTEN-WINKELKUPPLER**

Part Number	Panel Piercing	Remarks
49 K 201-400 D3	B 30	



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