

SERIES

Serie

SMA



SMA

SMA - Sub- Miniature Coaxial Connectors in Precision Quality for Microwave Applications up to 18 GHz

SMA connectors satisfy high quality standards and are characterized by high durability, high mechanical stability, long life and optimum electrical properties, especially low VSWR. The reliable screw coupling mechanism with defined maximum torque, at butted contact, allows RF- applications up to 18 GHz.

The connectors are available in various classes for different applications - with outer conductors in different materials and therefore with different price levels:

- Standard quality in copper beryllium, gold plated
- Stainless steel passivated
- Economy version in brass, gold plated / white bronze plated.

Product Features

- Interface according to IEC 60169- 15, EN 122 110, MIL- STD- 348A, Fig. 310
- Quality tested according to US MIL- STD 202
- Frequency range up to 18 GHz
- VSWR (straight connector): ≤ 1.05 typ.
- Optimal electrical characteristics
- High quality standard
- Reliable and long service life.

Product Range

- Cable connectors (straight and right angle) for flexible, semi- flex and semi- rigid cables
- PCB connectors (straight and right angle) as solder, SMD, press- fit and edge mount versions
- Panel connectors in various flanges for solder, stripline and microstrip types
- Hermetically sealed versions
- Terminations
- Adaptors
- Tools and Accessories.

Further connectors are available on request, also as MIL- PRF 39012 qualification.

Application Examples

Worldwide spread coaxial connector series for various common applications like telecom and mobile communications, test and measurement equipment and instruments.

SMA - Sub- Miniatur Koaxialsteckverbinder in Präzisionsausführung für Mikrowellenanwendungen bis 18 GHz

SMA- Steckverbinder besitzen einen hohen, anspruchsvollen Qualitätsstandard und zeichnen sich durch Zuverlässigkeit, große mechanische Festigkeit, lange Lebensdauer und optimale elektrische Eigenschaften, insbesondere niedriges VSWR, aus. Die zuverlässige Schraubkupplung mit definiertem Anzugsdrehmoment, bei Außenleiterstirnkontakt, ermöglicht Hochfrequenz- Anwendungen bis 18 GHz.

Für differenzierte Einsatzfälle in verschiedenen Qualitätsstufungen und Preisabstufungen, werden die Steckverbinder in unterschiedlichen Materialien für die Außenleiterteile angeboten:

- Standard- Ausführung in Kupfer- Beryllium, vergoldet
- Edelstahl passiviert
- Economy- Ausführung in Messing vergoldet / weißbronzebeschichtet.

Produkteigenschaften

- Interface gemäß IEC 60169- 15, EN 122 110, MIL- STD- 348A, Fig. 310
- Qualitätsprüfung gemäß US MIL- STD 202
- Frequenzbereich max. bis zu 18 GHz
- VSWR (gerader Steckverbinder): $\leq 1,05$ typ.
- Optimale elektrische Eigenschaften
- Hoher Qualitätsstandard
- Zuverlässigkeit und lange Lebensdauer.

Produktspektrum

- Kabelsteckverbinder (gerade und gewinkelt) für flexible, halbstarre und Semi- Rigid- Kabel
- Leiterplatten- Steckverbinder (gerade und gewinkelt), in Löt-, SMD-, Press- fit- und Edge- mount- Ausführungen
- Gehäuse- Steckverbinder in verschiedenen Flanschen für Löt-, Strip- line- und Microstrip- Bauformen
- Hermetisch dichte Versionen
- Abschlusswiderstände
- Adapter
- Werkzeuge und Zubehör.

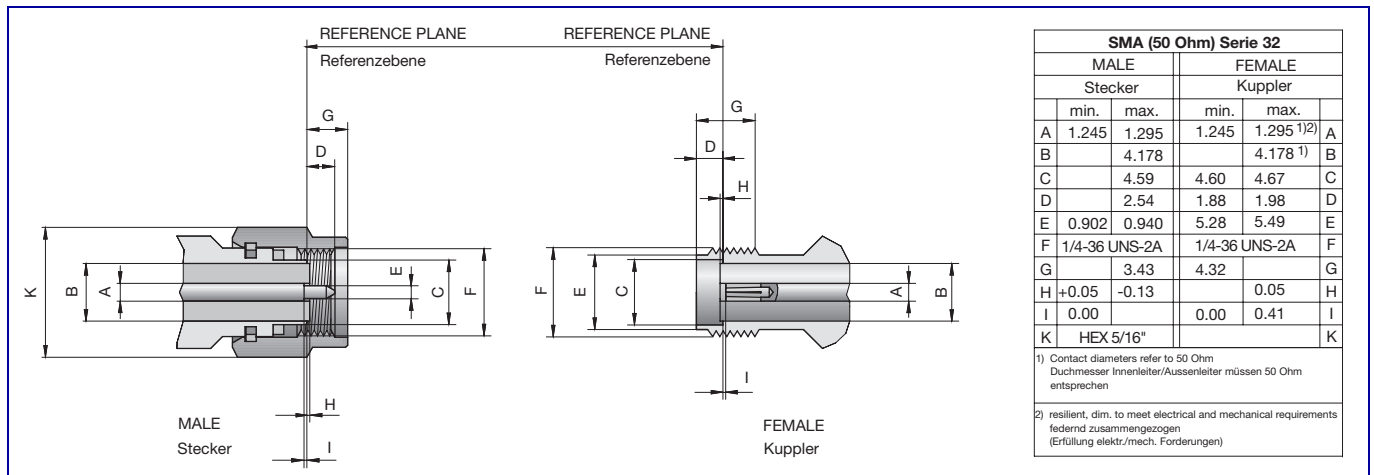
Weitere Steckverbinder, auch nach MIL- PRF 39012, auf Anfrage erhältlich.

Anwendungsbeispiele

Weltweit verbreitetste Koaxial- Steckverbinderreihe mit vielfältigen Einsatzmöglichkeiten wie z. B. in der Telekommunikation, im Mobilfunk, in der Messtechnik, in der industriellen Fertigung und weiteren Anwendungsfeldern.

Interface Dimensions

Anschlussmaße



Technical Data

Technische Daten

Applicable standards		Anwendbare Standards
Interface according to	IEC 60169- 15; EN 122110; MIL- STD- 348A, Fig. 310	Interface gemäß
Quality tested according to	US MIL- STD 202	Qualitätsprüfung gemäß

Electrical data		Elektrische Daten
Impedance	50 Ω	Wellenwiderstand
Frequency range (straight connectors)	0 - 18 GHz	Frequenzbereich (gerade Steckverbinder)
VSWR	$\leq 1.1 + 0.02 \times f$ (GHz)	VSWR
Insertion loss	$\leq 0.04 \text{ dB} \times \sqrt{f}$ (GHz) [dB]	Dämpfung
Insulation resistance	$\geq 5 \times 10^3 \text{ M}\Omega$	Isolationswiderstand
Center contact resistance	$\leq 3.0 \text{ m}\Omega$	Übergangswiderstand Innenleiter
Outer contact resistance	$\leq 2.0 \text{ m}\Omega$	Übergangswiderstand Außenleiter
Test voltage	1000 V rms	Prüfspannung
Working voltage	480 V rms	Betriebsspannung
Power handling	$\leq 200 \text{ W/2 GHz}$	Leistungsbelastbarkeit
Rf- leakage	$\geq 100 \text{ dB}$	Schirmdämpfung

Mechanical data		Mechanische Daten
Mating cycles	Standard: ≥ 500 Economy: ≥ 100	Steckzyklen
Coupling torque	Standard: St. Steel/BeCu, max. 1.70 Nm, rec. 0.9- 1.1 Nm Economy: CuZn, max. 0.6 Nm, rec. 0.5 Nm	Anzugsdrehmoment
Coupling nut retention	Standard: $\geq 270 \text{ N}$ Economy: $\geq 180 \text{ N}$	Überwurfmutter Haltekraft
Center contact captivation	Standard: axial $\geq 27 \text{ N}$ radial $\geq 3 \text{ Ncm}$ Economy: axial $\geq 20 \text{ N}$ radial $\geq 1 \text{ Ncm}$	Innenleiter Haltekraft

Environmental data		Umweltdaten
Temperature range	- 65°C - +165°C	Temperaturbereich
Vibration	US MIL- STD 202, Meth. 204, Cond. D	Vibration
Shock	US MIL- STD 202, Meth. 213, Cond. I	Schock
Moisture resistance	US MIL- STD 202, Meth. 106	Feuchtigkeitsbeständigkeit
Corrosion resistance	US MIL- STD 202, Meth. 101, Cond. B	Korrosionsbeständigkeit
Climatic class	IEC 60068 55/155/21	Klimaklasse
Thermal shock	US MIL- STD 202, Meth. 107, Cond. B	Temperaturzyklen

Materials		Materialien
Body	CuZn	Gehäuse
Outer contact	Standard: CuBe/Stainless steel Economy: CuZn	Außenleiter
Center contact	CuBe/CuZn	Innenleiter
Coupling nut	Standard: Stainless steel Economy: CuZn	Überwurfmutter
Dielectric	PTFE	Dielektrikum
Gasket	Silicon Rubber	Dichtung
Plating Body	Standard: Au or passivated Economy: Au or white bronze	Oberfläche Gehäuse
Plating Outer contact	Standard: Au or passivated Economy: Au or white bronze	Oberfläche Außenleiter
Plating Center contact	Au	Oberfläche Innenleiter
Plating Coupling nut	Standard: Au or passivated Economy: Au or white bronze	Oberfläche Überwurfmutter


Rosenberger- connectors fulfill in principle the indicated data of the Technical Data. Individual values of connectors may deviate depending upon application, design, type of cable, assembly method and execution. Specific data sheets for particular products can be provided on request from your Rosenberger sales partner.

Rosenberger- Steckverbinder erfüllen grundsätzlich die in den Technischen Daten angegebenen Daten. Je nach Anwendung, Bauart, Kabeltyp, Montageart und -ausführung können einzelne Werte von Steckverbindern hiervon abweichen. Spezifische Datenblätter zu einzelnen Produkten erhalten Sie auf Anfrage von Ihrem Rosenberger- Ansprechpartner.

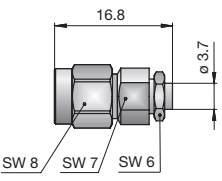
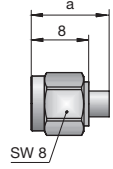
Cable Connectors Semi- Rigid Cable

Straight Plug, solder
without pin, without dielectric*Kabelsteckverbinder Semi- Rigid- Kabel*
Stecker gerade, löt
ohne Pin, ohne Dielektrikum Semi- Rigid

Ordering Number	Remarks	Cable Group	Assembly Instruction	Packing Unit
32 S 101- 272 L	Outer contact CuBe gold plated, coupling nut steel gold plated a = 8.3	72	32 A1 / 32 A22	100
32 S 121- 272 S	Outer contact CuBe gold plated, coupling nut steel gold passivated a = 8.3	72	32 A1 / 32 A22	100


Straight Plug, solder
soldered center contact*Stecker gerade, löt*
gelöteter Innenkontakt Semi- Rigid

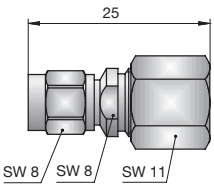
Ordering Number	Version	Remarks	Cable Group	Assembly Instruction	Packing Unit
32 S 101- 270 L5		CuBe, gold plated	70	32 A11	1
32 S 102- 271 L5		CuBe, gold plated, a = 11.2 MIL- PRF 39012: 79- 4005	71	32 A6 / 32 A20	300
32 S 102- 272 L5		CuBe, gold plated, a = 11.2 MIL- PRF 39012: 79- 4006	72	32 A3 / 32 A23	300
32 S 122- 271 S5		CuBe, gold plated, a = 11.2 MIL- PRF 39012: 79- 3005	71	32 A6 / 32 A20	300
32 S 122- 272 S5		CuBe, gold plated, a = 11.2 MIL- PRF 39012: 79- 3006	72	32 A3 / 32 A23	300
32 S 142- 271 L5	economy	brass, gold plated, a = 11.2	71	32 A6 / 32 A20	300
32 S 142- 272 L5	economy	brass, gold plated, a = 11.2	72	32 A3 / 32 A23	300

Straight Plug, clamp

Stecker gerade, klemm Semi- Rigid

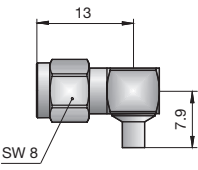
Ordering Number	Remarks	Cable Group	Assembly Instruction	Packing Unit
32 S 106- 073 L5	captivated center contact	73	32 C1	1



Right Angle Plug, solder

Winkelstecker, löt Semi- Rigid

Ordering Number	Version	Remarks	Cable Group	Assembly Instruction	Packing Unit
32 S 206- 271 L5		captivated center contact	71	32 E1	100
32 S 206- 272 L5		captivated center contact	72	32 E1 / 32 E20	100
32 S 246- 271 L5	economy	brass, gold plated	71	32 E1	100
32 S 246- 272 F5	economy	brass, gold plated	72	32 E1 / 32 E20	100

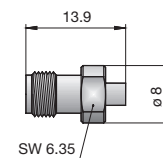


Straight Jack, solder

Kuppler gerade, löt

Semi- Rigid

Ordering Number	Remarks	Cable Group	Assembly Instruction	Packing Unit
32 K 101-271 L5	MIL- PRF 39012: 81- 4005	71	32 A4 / 32 A21	100
32 K 101-272 L5	MIL- PRF 39012: 81- 4006	72	32 A5 / 32 A26	100

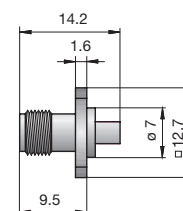


Panel Jack, solder, 4- hole flange

Gehäusekuppler, löt, 4- Loch- Flansch

Semi- Rigid

Ordering Number	Remarks	Cable Group	Assembly Instruction	Panel Piercing / PCB Layout	Packing Unit
32 K 401-271 L5	MIL- PRF 39012: 82- 4005	71	32 A4 / 32 A21	B 55	100
32 K 401-272 L5	MIL- PRF 39012: 82- 4006	72	32 A5 / 32 A26	B 55	1

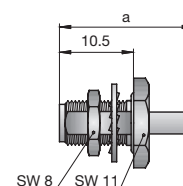


Panel Jack, solder, hexagonal flange

Gehäusekuppler, löt, 6- kant- Flansch

Semi- Rigid

Ordering Number	Version	Remarks	Cable Group	Assembly Instruction	Panel Piercing / PCB Layout	Packing Unit
32 K 601-271 L5	rear mount	a = 15 MIL- PRF 39012: 83- 4005	71	32 A4 / 32 A21	B 56	1, 100
32 K 601-272 L5	rear mount	a = 15 MIL- PRF 39012: 83- 4006	72	32 A5 / 32 A26	B 56	1, 100



Cable Connectors - Flexible Cables

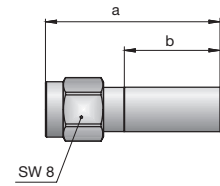
Kabelsteckverbinder Flexible Kabel

Straight Plug, solder- crimp

Stecker gerade, löt- crimp

Flexible Cables

Ordering Number	Version	Remarks	Cable Group	Assembly Instruction	Crimp Inserts	Packing Unit
32 S 107- 302 L5		stainless steel, gold plated, a = 18; b = 7	02	32 B5	11 W 150- 102	100
32 S 107- 303 L5		stainless steel, gold plated, a = 18; b = 7	03	32 B5	11 W 150- 102	100
32 S 107- 306 L5		stainless steel, gold plated, a = 24.4; b = 13.5	06	32 B8	11 W 150- 108	100
32 S 107- 307 L5		stainless steel, gold plated, a = 24.4; b = 13.5	07, 08	32 B8	11 W 150- 108	100
32 S 127- 302 S5		stainless steel, passivated, a = 18, b = 7	02	32 B5	11 W 150- 102	100
32 S 127- 303 S5		stainless steel, passivated, a = 18, b = 7	03	32 B5	11 W 150- 102	100
32 S 127- 306 S5		stainless steel, passivated, a = 24.4, b = 13.5	06	32 B8	11 W 150- 108	100
32 S 127- 307 S5		stainless steel, passivated, a = 24.4, b = 13.5	07, 08	32 B8	11 W 150- 108	100
32 S 147- 302 N5	economy	brass white bronze plated, a = 18, b = 7	02	32 B5	11 W 150- 102	100
32 S 147- 303 N5	economy	brass, white bronze plated, a = 18, b = 7	03	32 B5	11 W 150- 102	100
32 S 147- 306 N5	economy	brass, white bronze plated, a = 24.4, b = 13.5	06	32 B8	11 W 150- 108	100
32 S 147- 307 N5	economy	brass, white bronze plated, a = 24.4, b = 13.5	07, 08	32 B8	11 W 150- 108	100
32 S 147- 302 L5	economy	brass, gold plated, a = 18, b = 7	02	32 B5	11 W 150- 102	100
32 S 147- 303 L5	economy	brass, gold plated, a = 18, b = 7	03	32 B5	11 W 150- 102	100
32 S 147- 306 L5	economy	brass, gold plated, a = 24.4, b = 13.5	06	32 B8	11 W 150- 108	100
32 S 147- 307 L5	economy	brass, gold plated, a = 24.4, b = 13.5	07, 08	32 B8	11 W 150- 108	100

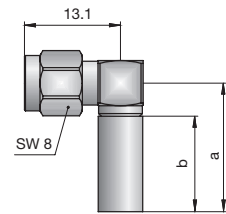


Right Angle Plug, solder- crimp

Winkelstecker, löt- crimp

Flexible Cables

Ordering Number	Version	Remarks	Cable Group	Assembly Instruction	Crimp Inserts	Packing Unit
32 S 207- 302 L5		CuBe, gold plated, a=12.1; b=7	02	32 B6	11 W 150- 102	100
32 S 207- 303 L5		CuBe, gold plated, a=12.1; b=7	03	32 B6	11 W 150- 102	100
32 S 207- 306 L5		CuBe, gold plated, a = 18.5; b = 13.5	06	32 B9	11 W 150- 108	100
32 S 207- 307 L5		CuBe, gold plated, a = 18.5; b = 13.5	07, 08	32 B9	11 W 150- 108	100
32 S 247- 302 N5	economy	brass, white bronze plated, a = 12.1, b = 7	02	32 B6	11 W 150- 102	100
32 S 247- 303 N5	economy	brass, white bronze plated, a = 12.1, b = 7	03	32 B6	11 W 150- 102	100
32 S 247- 306 N5	economy	brass, white bronze plated, a = 18.5, b = 13.5	06	32 B9	11 W 150- 108	100
32 S 247- 307 N5	economy	brass, white bronze plated, a = 18.5, b = 13.5	07, 08	32 B9	11 W 150- 108	100
32 S 247- 302 L5	economy	brass, gold plated, a = 12.1, b = 7	02	32 B6	11 W 150- 102	100
32 S 247- 303 L5	economy	brass, gold plated, a = 12.1, b = 7	03	32 B6	11 W 150- 102	100
32 S 247- 306 L5	economy	brass, gold plated, a = 18.5, b = 13.5	06	32 B9	11 W 150- 108	100
32 S 247- 307 L5	economy	brass, gold plated, a = 18.5, b = 13.5	07, 08	32 B9	11 W 150- 108	100

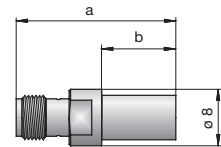


Straight Jack, solder- crimp

Kuppler gerade, löt- crimp

Flexible Cables

Ordering Number	Remarks	Cable Group	Assembly Instruction	Crimp Inserts	Packing Unit
32 K 107- 302 L5	stainless steel, gold plated, a = 20; b = 7	02	32 B5	11 W 150- 102	100
32 K 107- 303 L5	stainless steel, gold plated, a = 20; b = 7	03	32 B5	11 W 150- 102	100
32 K 107- 306 L5	stainless steel, gold plated, a = 25.5; b = 13.5	06	32 B8	11 W 150- 108	1
32 K 107- 307 L5	stainless steel, gold plated, a = 25.5; b = 13.5	07, 08	32 B8	11 W 150- 108	100

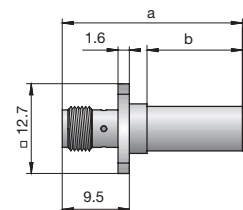


Panel Jack, solder- crimp, 4- hole flange

Gehäusekuppler, löt- crimp, 4- Loch- Flansch

Flexible Cables

Ordering Number	Remarks	Cable Group	Assembly Instruction	Panel Piercing / PCB Layout	Crimp Inserts	Packing Unit
32 K 407- 302 L5	stainless steel, gold plated, a = 20; b = 7	02	32 B5	B 55	11 W 150- 102	100
32 K 407- 303 L5	stainless steel, gold plated, a = 20; b = 7	03	32 B5	B 55	11 W 150- 102	100
32 K 407- 306 L5	stainless steel, gold plated, a = 25.5; b = 13.5	06	32 B8	B 55	11 W 150- 108	100
32 K 407- 307 L5	stainless steel, gold plated, a = 25.5; b = 13.5	07, 08	32 B8	B 55	11 W 150- 108	100

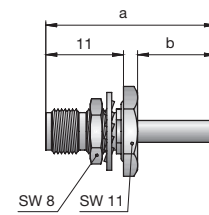


Panel Jack, solder- crimp, hexagonal flange

Gehäusekuppler, löt- crimp, 6- kant- Flansch

Flexible Cables

Ordering Number	Version	Remarks	Cable Group	Assembly Instruction	Panel Piercing / PCB Layout	Crimp Inserts	Packing Unit
32 K 607- 302 L5	rear mount	CuBe, gold plated, a = 20; b = 7	02	32 B21	B 57	11 W 150- 102	100
32 K 607- 303 L5	rear mount	CuBe, gold plated, a = 20; b = 7	03	32 B21	B 57	11 W 150- 102	100
32 K 607- 306 L5	rear mount	stainless steel, gold plated, a = 26.5; b = 13.5	06	32 B8	B 57	11 W 150- 108	1
32 K 607- 307 L5	rear mount	stainless steel, gold plated, a = 26.5; b = 13.5	07, 08	32 B8	B 57	11 W 150- 108	1
32 K 647- 302 N5	rear mount, economy	brass, white bronze plated, a = 20, b = 7	02	32 B21	B 57	11 W 150- 102	100
32 K 647- 303 N5	rear mount, economy	brass, white bronze plated, a = 20, b = 7	03	32 B21	B 57	11 W 150- 102	100



Panel Connectors - Solder End

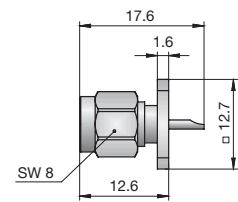
Gehäuse-Steckverbinder - Lötkehlch

Panel Plug, 4- hole flange

Gehäusestecker, 4- Loch- Flansch

Solder End

Ordering Number	Remarks	Panel Piercing / PCB Layout	Packing Unit
32 S 421- 200 S3	stainless steel, passivated	B 55a	100

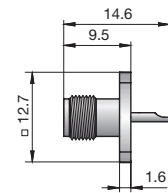


Panel Jack, 4- hole flange

Gehäusekuppler, 4- Loch- Flansch

Solder End

Ordering Number	Version	Remarks	Panel Piercing / PCB Layout	Packing Unit
32 K 421- 200 E3		stainless steel, gold plated MIL- PRF 39012: 60- 3001	B 55a	100
32 K 40A- 200 E3	economy	stainless steel, gold plated	B 55a	100
32 K 441- 200 N5		brass, white bronze plated	B 55a	100

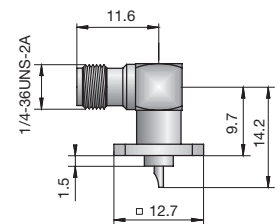


Right Angle Panel Jack, 4- hole flange

Gehäuse- Winkelkuppler, 4- Loch- Flansch

Solder End

Ordering Number	Version	Remarks	Panel Piercing / PCB Layout	Packing Unit
32 K 221- 200 S5		stainless steel, passivated	B 55a	50
32 K 241- 200 L5	economy	brass, white bronze plated	B 55a	100

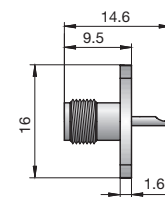


Panel Jack, 2- hole flange

Gehäusekuppler, 2- Loch- Flansch

Solder End

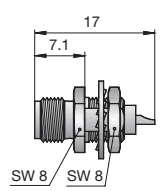
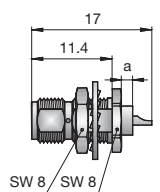
Ordering Number	Version	Remarks	Panel Piercing / PCB Layout	Packing Unit
32 K 701- 200 E3		CuBe gold plated MIL- PRF 39012: 60- 4002	B 55h	100
32 K 721- 200 S5		stainless steel, passivated MIL- PRF 39012: 60- 3002	B 55h	100
32 K 741- 200 N5	economy	brass, white bronze plated	B 55h	100



Panel Jack, hexagonal flange

Gehäusekuppler, 6- kant- Flansch

Solder End

Ordering Number	Version	Remarks	Panel Piercing / PCB Layout	Packing Unit	
32 K 622- 200 S5	front mount	stainless steel, passivated MIL- PRF 39012: 61- 3002	B 56	1	
32 K 603- 200 L5	rear mount	CuBe, gold plated, a = 1.6	B 56	100	

SMA

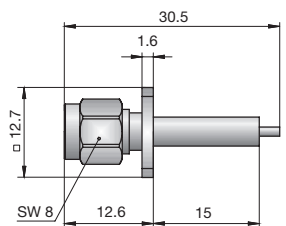
Panel Connectors - Coaxial End

Gehäuse- Steckverbinder - Koaxiales Ende

Panel Plug Straight Terminal
4- hole flange

Gehäusestecker mit Durchführung
4- Loch- Flansch

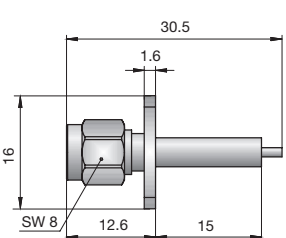
Coaxial End

Ordering Number	Remarks	Panel Piercing / PCB Layout	Packing Unit	
32 S 422- 500 S5	stainless steel, passivated	B 55a	1	

Panel Plug Straight Terminal
2- hole flange

Gehäusestecker mit Durchführung
2- Loch- Flansch

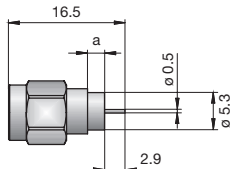
Coaxial End

Ordering Number	Remarks	Panel Piercing / PCB Layout	Packing Unit	
32 S 722- 500 S5	stainless steel, passivated	B 55a	1	

Panel Plug, solder mount

Gehäusedurchführung zum Einlöten

Coaxial End

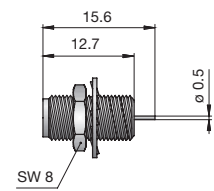
Ordering Number	Version	Remarks	Packing Unit	
32 S 102- 5H0 L5	hermetic sealed	a = 2.4; sealed with a glass feedthru matched to 50 Ω Leakage rate < 10 ⁻⁸ cc/sec. Pressure max. 2 N/mm ²	1	

Panel Jack, spark plug

Gehäusedurchführung, Spark Plug

Coaxial End

Ordering Number	Version	Remarks	Panel Piercing / PCB Layout	Packing Unit
32 K 101- 5H0 L5	hermetic sealed	sealed with a glass feedthru matched to 50 Ω . Leakage rate < 10^{-8} cc/sec. Pressure max. 2 N/mm ²	1/4- 36 UNS- 2B	1

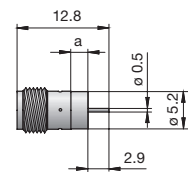


Panel Jack, solder mount

Gehäusedurchführung zum Einlöten

Coaxial End

Ordering Number	Version	Remarks	Packing Unit
32 K 103- 5H0 L5	hermetic sealed	\varnothing 5.2; a = 3.2; sealed with a glass feedthru matched to 50 Ω . Leakage rate < 10^{-8} cc/sec. Pressure max. 2 N/mm ²	100

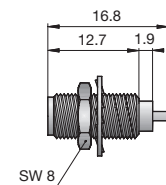


Panel Jack Straight Terminal

Gehäusekuppler mit Durchführung

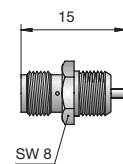
Coaxial End

Ordering Number	Version	Remarks	Panel Piercing / PCB Layout	Packing Unit
32 K 141- 500 N5	economy	white bronze plated	1/4- 36 UNS- 2A	100
32 K 141- 500 L5	economy	gold plated	1/4- 36 UNS- 2A	100

Panel Jack Straight Terminal
hexagonal flangeGehäusekuppler mit Durchführung
6- kant- Flansch

Coaxial End

Ordering Number	Version	Remarks	Panel Piercing / PCB Layout	Packing Unit
32 K 644- 500 L5	economy	brass, gold plated	1/4- 36 UNS- 2A	100



**Panel Jack Straight Terminal
4- hole flange**

**Gehäusekuppler mit Durchführung
4- Loch- Flansch**

Coaxial End

Ordering Number	Version	Remarks	Panel Piercing / PCB Layout	Packing Unit	
32 K 441- 500 L5	economy	gold plated	B 55h	100	
32 K 402- 500 E3		captivated center contact, stainless steel, gold plated	B 55a	50	
32 K 422- 500 S5		captivated center contact, stainless steel, passivated	B 55a	50	
32 K 449- 500 L5	economy	captivated center contact, brass, gold plated	B 55a	50	
32 K 44R- 500 L5	economy	gold plated, a = 4.5; b = 6; c = 15.5	B 55a	100	
32 K 482- 500 N5	economy	white bronze plated, a = 8; b = 12; c = 21.5	B 55a	100	
32 K 486- 500 L5	economy	gold plated, a = 5; b = 7,5; c = 17	B 55a	100	

SMA

**Panel Jack Straight Terminal
2- hole flange**

**Gehäusekuppler mit Durchführung
2- Loch- Flansch**

Coaxial End

Ordering Number	Version	Remarks	Panel Piercing / PCB Layout	Packing Unit	
32 K 722- 500 E3		captivated center contact, stainless steel gold plated	B 55a	1	
32 K 722- 500 S5		captivated center contact, stainless steel, passivated	B 55a	50	
32 K 752- 500 N5	economy	white bronze plated	B 55h	100	

**Panel Connectors - Stripline
according MIL M83517**
**Gehäuse-Steckverbinder - Stripline
according MIL M83517**
Panel Jack, 4- hole flange
Gehäusekuppler, 4- Loch- Flansch
Stripline

Ordering Number	Version	Remarks	Panel Piercing / PCB Layout	Packing Unit	
32 K 421- 600 S5		stainless steel	B 55	100	
32 K 441- 600 N5	economy	brass, white bronze plated	B 55	100	
32 K 441- 600 L5	economy	brass, gold plated	B 55	100	
32 K 424- 600 S5		stainless steel	B 55g	100	

Panel Jack, 2- hole flange
Gehäusekuppler, 2- Loch- Flansch
Stripline

Ordering Number	Remarks	Panel Piercing / PCB Layout	Packing Unit	
32 K 724- 600 S5	stainless steel	B 55g	100	

Panel Connectors - Microstrip
according to MIL M83517

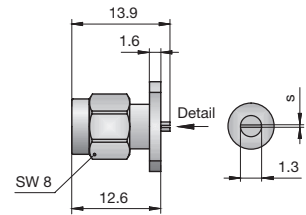
Gehäuse-Steckverbinder - Microstrip
according to MIL M83517

Panel Plug, 4- hole flange

Gehäusestecker, 4- Loch- Flansch

Microstrip

Ordering Number	Remarks	Panel Piercing / PCB Layout	Packing Unit
32 S 421- 700 S5	stainless steel, passivated, s = 0.3	B 55	100
32 S 422- 700 S5	stainless steel, passivated, s = 0.5	B 55	100

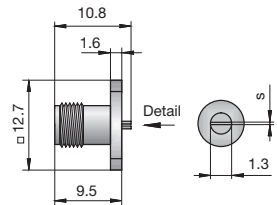


Panel Jack, 4- hole flange

Gehäusekuppler, 4- Loch- Flansch

Microstrip

Ordering Number	Remarks	Panel Piercing / PCB Layout	Packing Unit
32 K 421- 700 S5	stainless steel, passivated, s = 0.3	B 55	100



PCB Connectors - SMD

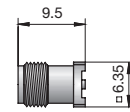
Leiterplatten-Steckverbinder - SMD

Straight Jack

Kuppler gerade

SMD

Ordering Number	Panel Piercing / PCB Layout	Packing	Packing Unit
32 K 10A- 40M L5	B 163	VG 08.50000	500 tape & reel

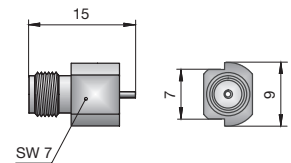


Right Angle Jack

Winkelkuppler

SMD

Ordering Number	Panel Piercing / PCB Layout	Packing	Packing Unit
32 K 242- 40M L5	B 207	VG 57.50000	100 blister, 500 tape & reel

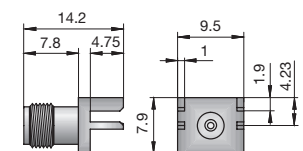
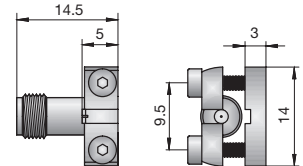


Right Angle Panel Jack, edge mount

Gehäuse- Winkelkuppler, edge mount

SMD

Ordering Number	Remarks	Panel Piercing / PCB Layout	Packing Unit
32 K 243- 40M L5	for various PCB's 0- 2.5 mm	B 208	50 blister
32 K 145- 40M L5	for panel thickness 1.8 mm	B 206	100



PCB Connectors - Solder Pin

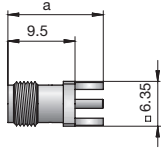
Leiterplatten- Steckverbinder - Löt- Pin

Straight Jack

Kuppler gerade

Solder Pin

Ordering Number	Remarks	Panel Piercing / PCB Layout	Packing Unit
32 K 101- 400 L5	a = 13.5	B 30b	100 blister

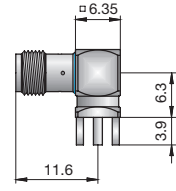


Right Angle Jack

Winkelkuppler

Solder Pin

Ordering Number	Version	Remarks	Panel Piercing / PCB Layout	Packing Unit
32 K 201- 400 L5		without stand- off	B 30b	200 blister
32 K 249- 400 L5	economy	0.5 stand- off version	B 30b	200 blister

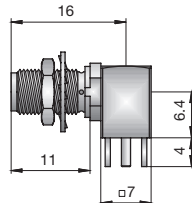


Right Angle Panel Jack

Gehäuse- Winkelkuppler

Solder Pin

Ordering Number	Version	Panel Piercing / PCB Layout	Packing Unit
32 K 246- 400 L5	rear mount	B 66b / B 168	100 blister



PCB Connectors - Press- fit

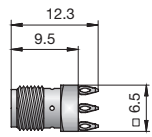
Leiterplatten- Steckverbinder - Press- fit

Straight Jack

Kuppler gerade

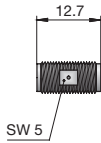
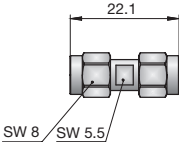
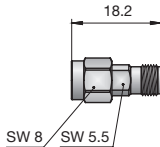
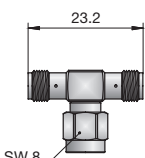
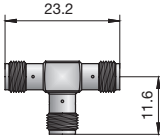
Press- fit

Ordering Number	Remarks	Panel Piercing / PCB Layout	Packing Unit
32 K 102- 40P L5	Coupling torque: recommended: 0.5 Nm max: 0.6 Nm	B 79	100



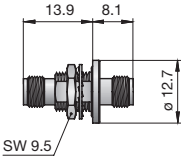
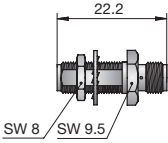
Adaptors (In- Serie)

Adapter (In- Serie)

SMA			SMA	
Ordering Number	Version	Remarks	Packing Unit	
32 K 101- K00 L5	straight	SMA female - female; stainless steel, gold plated	1	
32 S 103- S00 L5	straight	SMA male - male, stainless steel, gold plated	1	
32 S 105- K00 L5	straight	SMA male - female, stainless steel, gold plated	1	
32 S 221- K00 E3	right angle	SMA male - female, stainless steel, gold plated	1	
32 S 301- K00 L5	T- adaptor	SMA female - male - female, This connector is a non- matched 3 dB divider for LF applications	1	
32 K 301- K00 L5	T- adaptor	SMA female - female - female; This connector is a non- matched 3 dB divider for LF applications	1	

Panel Adaptor

Gehäuse- Adapter

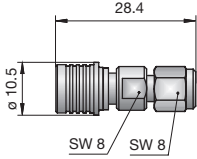
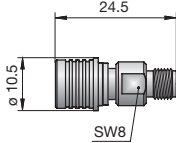
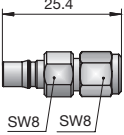
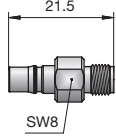
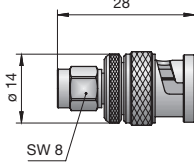
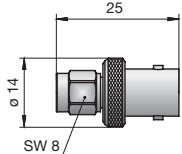
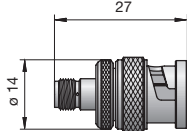
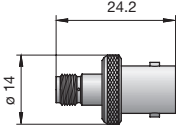
Ordering Number	Version	Remarks	Panel Piercing / PCB Layout	Packing Unit	
32 K 101- KH0 L5	straight	SMA female - female; round flange, panel thickness max. 4.8 mm, hermetic sealed	B 58	1	
32 K 621- K00 E3	straight	SMA female - female; hexagonal flange, panel thickness max. 6.4 mm, stainless steel, tool width 9.5 mm	B 56	1	

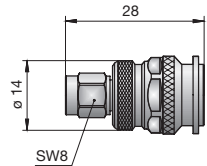
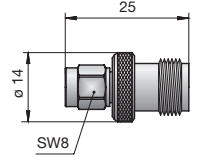
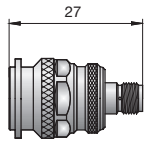
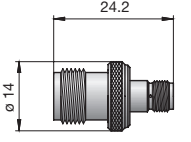
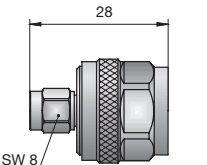
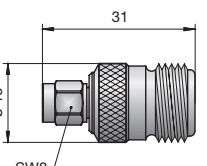
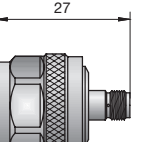
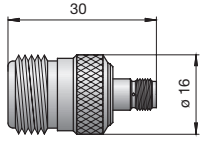
Adaptors (Inter Series)

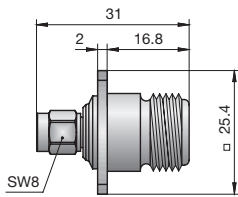
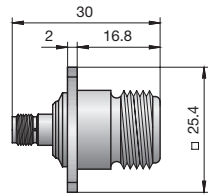
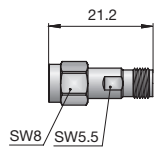
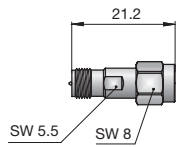
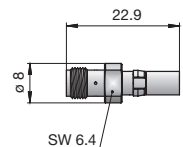
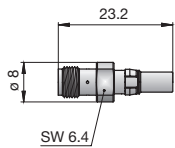
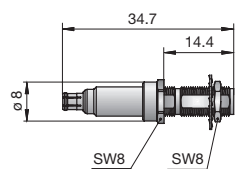
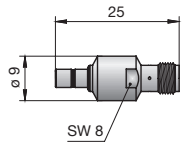
Adapter (serienübergreifend)

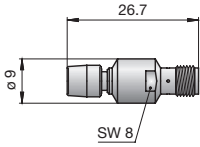
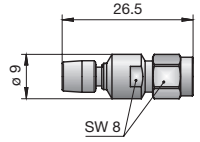
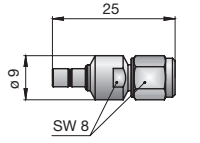
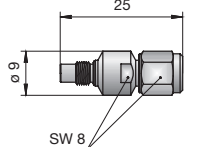
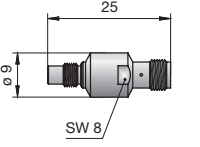
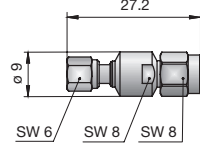
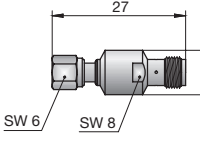
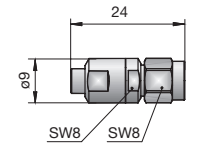
SMA

SMA

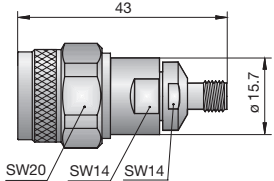
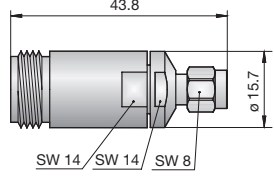
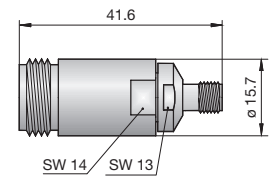
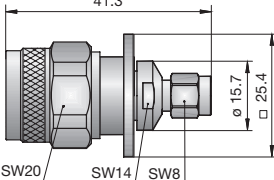
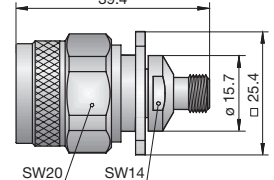
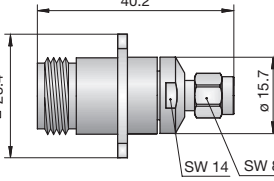
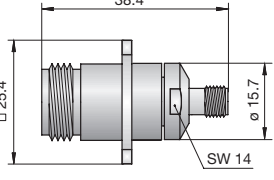
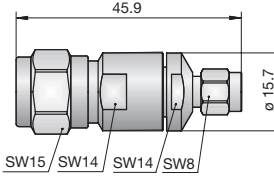
Ordering Number	Version	Remarks	Return Loss	Panel Piercing / PCB Layout	Packing Unit	
28 S 132- S00 N5	straight	QMA male - SMA male			1	
28 S 132- K00 N5	straight	QMA male - SMA female			1	
28 K 132- S00 N5	straight	QMA female - SMA male			1	
28 K 132- K00 N5	straight	QMA female - SMA female			1	
32 S 151- S00 L5	straight	SMA male - BNC male			1	
32 S 151- K00 L5	straight	SMA male - BNC female			1	
32 K 151- S00 L5	straight	SMA female - BNC male			1	
32 K 151- K00 L5	straight	SMA female - BNC female			1	

Ordering Number	Version	Remarks	Return Loss	Panel Piercing / PCB Layout	Packing Unit	
32 S 156- S00 L5	straight	SMA male - TNC male			1	
32 S 156- K00 L5	straight	SMA male - TNC female			1	
56 S 132- K00 N5	straight	TNC male - SMA female			1	
56 K 132- K00 N5	straight	TNC female - SMA female			1	
32 S 153- S00 L5	straight	SMA male - N male			1	
32 S 153- K00 L5	straight	SMA male - N female			1	
53 S 132- K00 L5	straight	N male - SMA female			1	
53 K 132- K00 L5	straight	N female - SMA female			1	

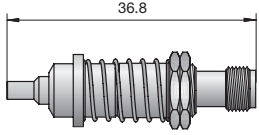
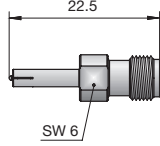
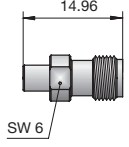
Ordering Number	Version	Remarks	Return Loss	Panel Piercing / PCB Layout	Packing Unit	
32 S 453- K00 L5	straight	SMA male - N female; 4- hole flange		B 12	1	
32 K 453- K00 L5	straight	SMA female - N female; 4- hole flange		B 12	1	
32 RS 132- K00 L5	straight	SMA reverse male - SMA Standard female			1	
32 RK 132- S00 L5	straight	SMA reverse female - SMA Standard male			1	
32 K 145- S00 L5	straight	SMA female - DIN 41626 (1.0- 2.3) male			1	
32 K 145- K00 L5	straight	SMA female - DIN 41626 (1.0- 2.3) female			1	
29 S 132- K01 N5	straight	MCX male - SMA female		B 56	1	
59 S 132- K00 L5	straight	SMB male - SMA female			1	

Ordering Number	Version	Remarks	Return Loss	Panel Piercing / PCB Layout	Packing Unit	
59 K 132- K00 L5	straight	SMB female - SMA female			1	
59 K 132- S00 L5	straight	SMB female - SMA male			1	
59 S 132- S00 L5	straight	SMB male - SMA male			1	
39 S 132- S00 L5	straight	SMC male - SMA male			1	
39 S 132- K00 L5	straight	SMC male - SMA female			1	
39 K 132- S00 L5	straight	SMC female - SMA male			1	
39 K 132- K00 L5	straight	SMC female - SMA female			1	
19 S 132- S00 S3	straight	SMP male - SMA male			1	

Ordering Number	Version	Remarks	Return Loss	Panel Piercing / PCB Layout	Packing Unit	
19 K 132- S00 D3	straight	SMP female - SMA male			1	
19 S 132- K00 S3	straight	SMP male - SMA female			1	
19 K 132- K00 D3	straight	SMP female - SMA female			1	
32 K 160- S00 N5	straight	SMA female - 7- 16 male			1	
32 S 160- S00 N5	straight	SMA male - 7- 16 male			1	
16 S 132- S00 L5	straight	FMC male - SMA male			1	
16 K 132- K00 S5	straight	FMC female - SMA female			1	
05 S 132- S00 S3	straight	RPC- N 50 Ω male - SMA male	≥ 23 dB @ DC to 18 GHz		1	

Ordering Number	Version	Remarks	Return Loss	Panel Piercing / PCB Layout	Packing Unit	
05 S 132- K00 S3	straight	RPC- N 50 Ω male - SMA female	≥ 23 dB @ DC to 18 GHz		1	
05 K 132- S00 S3	straight	RPC- N 50 Ω female - SMA male	≥ 23 dB @ DC to 18 GHz		1	
05 K 132- K00 S3	straight	RPC- N 50 Ω female - SMA female	≥ 23 dB @ DC to 18 GHz		1	
05 S 432- S00 S3	straight	RPC- N 50 Ω male - SMA male, 4- hole flange	≥ 23 dB @ DC to 18 GHz	B 12	1	
05 S 432- K00 S3	straight	RPC- N 50 Ω male - SMA female, 4- hole flange	≥ 23 dB @ DC to 18 GHz	B 12	1	
05 K 432- S00 S3	straight	RPC- N 50 Ω female - SMA male, 4- hole flange	≥ 23 dB @ DC to 18 GHz	B 12	1	
05 K 432- K00 S3	straight	RPC- N 50 Ω female - SMA female, 4- hole flange	≥ 23 dB @ DC to 18 GHz	B 12	1	
06 S 132- S00 S3	straight	RPC- TNC male - SMA male	≥ 19 dB @ DC to 18 GHz		1	

Ordering Number	Version	Remarks	Return Loss	Panel Piercing / PCB Layout	Packing Unit	
06 S 132- K00 S3	straight	RPC-TNC male - SMA female	≥ 19 dB @ DC to 18 GHz		1	
06 K 132- S00 S3	straight	RPC-TNC female - SMA male	≥ 19 dB @ DC to 18 GHz		1	
06 K 132- K00 S3	straight	RPC-TNC female - SMA female	≥ 19 dB @ DC to 18 GHz		1	
07 P 132- S00 S3	straight	RPC- 7 - SMA male	≥ 23 dB @ DC to 18 GHz		1	
07 P 132- K00 S3	straight	RPC- 7 - SMA female	≥ 23 dB @ DC to 18 GHz		1	

Ordering Number	Version	Remarks	Packing Unit	
15 S 132- K04 L5	straight	Micro- RF male - SMA female for 15 K 101- 40M E4 Mating cycles \geq 200000	1	
15 S 132- K02 L5	straight	Micro- RF male - SMA female for 15 K 101- 40M E4 Mating cycles \geq 2000	1	
15 S 132- K05 L5	straight	Micro- RF male - SMA female for 15 K 101- 40M E4 Mating cycles \geq 2000	1	

SMA

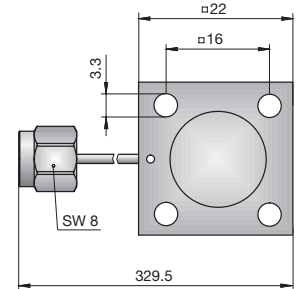
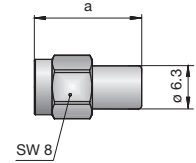
Terminations

Abschlusswiderstände

Termination Plug

Abschlusswiderstand Stecker

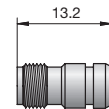
Ordering Number	Remarks	Return Loss	Packing Unit
32 S 15R- 0.5 E3	a = 15.5 0.5 Watt, Frequency DC - 12.4 GHz	≥ 32.2 dB @ DC to 2 GHz ≥ 26.4 dB @ 2 GHz to 8 GHz ≥ 21.2 dB @ 8 GHz to 12.4 GHz	1
32 S 17R- 0.5 E3	a = 15.5 0.5 W; Frequency DC - 18 GHz	≥ 32.2 dB @ DC to 2 GHz ≥ 26.4 dB @ 2 GHz to 8 GHz ≥ 21.2 dB @ 8 GHz to 12.4 GHz ≥ 20.8 dB @ 12.4 GHz to 18 GHz	1
32 S 15R- 1.0 E3	a = 15.5 1 Watt, Frequency DC - 18 GHz	≥ 28.3 dB @ DC to 4 GHz ≥ 26.4 dB @ 4 GHz to 6 GHz ≥ 24.3 dB @ 6 GHz to 10 GHz ≥ 23.1 dB @ 10 GHz to 12.4 GHz ≥ 22.1 dB @ 12.4 GHz to 14 GHz ≥ 19.1 dB @ 14 GHz to 18 GHz	1
32 S 17B- 1.0 E3	a = 10 1 W; Frequency DC - 18 GHz	≥ 26.4 dB @ DC to 1 GHz ≥ 19.1 dB @ 1 GHz to 18 GHz	1
32 S 22R- 080 E3	80 W; Frequency DC - 2 GHz	typ. 30.7 dB @ DC to 2 GHz typ. 19.1 dB @ 2 GHz to 2.3 GHz	1



Termination Jack

Abschlusswiderstand Kuppler

Ordering Number	Remarks	Return Loss	Packing Unit
32 K 15R- 001 E3	1 Watt, Frequency DC - 12.4 GHz	≥ 32.2 dB @ DC to 2 GHz ≥ 26.4 dB @ 2 GHz to 8 GHz ≥ 21.2 dB @ 8 GHz to 12.4 GHz	1
32 K 17R- 001 E3	1 Watt, Frequency DC - 18 GHz	≥ 32.2 dB @ DC to 2 GHz ≥ 26.4 dB @ 2 GHz to 8 GHz ≥ 21.2 dB @ 8 GHz to 12.4 GHz ≥ 20.8 dB @ 12.4 GHz to 18 GHz	1



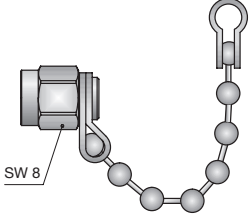
Accessories

Zubehör

Protection Cap with chain

Schutzkappe mit Kette

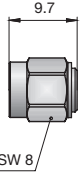
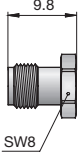
Ordering Number	Remarks	Packing Unit
32 Z 112-000 F	male with seal	1



Short

Kurzschluss

Ordering Number	Remarks	Packing Unit
32 Z 111-000 L5	male	1
32 Z 114-000 L5	female	1

SMA

Special Tools

Spezialwerkzeuge

**Assembly Tool Set
for Semi Rigid Cables
Serie SMA**
**Montagewerkzeugsortiment
für Semi- Rigid- Kabel
Serie SMA**

Ordering Number	Remarks	Packing Unit
32 W 100- 000	complete tool set in plastic box	1


**Contents of the Assembly Tool Set
for Semi Rigid Cables (32 W 100- 000)**
**Inhalt des Montagewerkzeugsortiments
für Semi- Rigid- Kabel (32 W 100- 000)**

Ordering Number	Remarks	Packing Unit
32 W 100- 001	Soldering Fixture Lötvorrichtung	1
32 W 100- 002	Insert for Rg 405 Backen für RG 405	1
32 W 100- 003	Insert for Rg 405 Backen für RG 405	1
32 W 100- 004	Jack Locator Fixierschraube für Kuppler	1
32 W 100- 005	Plug Locator Fixierschraube für Stecker	1
32 W 100- 006	Soldering Gauge 0.25 mm Distanzlehre 0,25 mm	1
32 W 100- 007	Soldering Gauge 0.4 mm Distanzlehre 0,4 mm	1
32 W 100- 008	Contact Support (for plug and jack) Kontakthalter (für Stecker und Kuppler)	1
32 W 100- 009	Dielectric Insertion Tool for Plugs Isolierteil- Einpresswerkzeug für Stecker	1
32 W 100- 010	Dielectric Insertion Tool for Jacks Isolierteil- Einpresswerkzeug für Kuppler	1
32 W 100- 011	Assembly Jig (center contact + insulator) Montagelehre (Innenleiter + Isolierteil)	1
32 W 100- 012	Assembly Jig (outer contact + coupling nut) Montagelehre (Außenleiter + Überwurfmutter)	1
32 W 100- 013	Assembly Jig (center contact + insulator) Montagelehre (Innenleiter + Isolierteil)	1
32 W 100- 014	Cutting Tool Planschneidewerkzeug	1
32 W 100- 015	Sharpening Tool Anspitzwerkzeug	1
32 W 100- 016	Torque Wrench Drehmomentschlüssel	1
32 W 100- 017	Insulator Insertion Tool Andrückwerkzeug für Isolierteil	1
32 W 100- 018	Insulator Press In Tool Einpresswerkzeug für Isolierteil	1