

SMA Coaxial Connectors

SMA Koaxialkontakte

Technical Data

Technische Daten

Mechanical Data

Mechanische Daten

Mechanical Data <i>Mechanische Daten</i>	
Engagement torque <i>Verbindungs Drehmoment</i>	max. 22.6 Ncm (2 inch-pounds)
Mating torque <i>Anzugs Drehmoment</i>	79 Ncm to 113 Ncm (7 to 10 inch-pounds) <i>79 Ncm bis 113 Ncm</i>
Coupling nut retention <i>Überwurfmutter Haltekraft</i>	≤ 267 N (≤ 60 lbs.)
Mating cycles <i>Steckzyklen</i>	≥ 500
Recommended temperature range <i>Empfohlener Temperaturbereich</i>	-65 °C ≤ ϑ ≤ 165 °C (-85 °F ≤ ϑ ≤ 329 °F)

Electrical Data

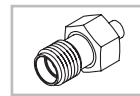
Elektrische Daten

Electrical Data <i>Elektrische Daten</i>	
Characteristic impedance <i>Wellenwiderstand</i>	50 Ω
Frequency range <i>Frequenzbereich</i>	0 - 18 GHz
Insulation resistance <i>Isolationswiderstand</i>	≥ 5000 MΩ
Contact resistance inner conductor <i>Durchgangswiderstand Innenleiter</i>	≤ 3 mΩ
Contact resistance outer conductor <i>Durchgangswiderstand Außenleiter</i>	≤ 2 mΩ
Dielectric withstanding voltage (DWV) at sea level <i>Prüfspannung (DWV) auf Meereshöhe</i>	≥ 1500 VRMS

Materials and Platings

Materialien und Oberflächen

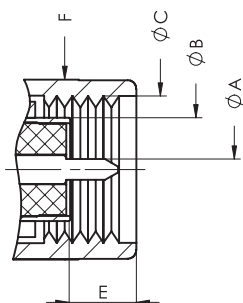
Materials and Platings <i>Materialien und Oberflächen</i>	
Body material <i>Kontaktmaterial</i>	Brass / Stainless steel <i>Messing / Rostfreier Stahl</i>
Material center conductor <i>Material Innenleiter</i>	CuBe / Brass <i>CuBe / Messing</i>
Insulator <i>Isolator</i>	Teflon <i>Teflon</i>
Crimp ferrule <i>Crimphülse</i>	Cu alloy <i>Cu Legierung</i>
Gasket <i>Dichtring</i>	Silicone rubber <i>Silicon Gummi</i>
Center contact plating <i>Oberfläche Innenleiter</i>	Au over Ni <i>Au über Ni</i>



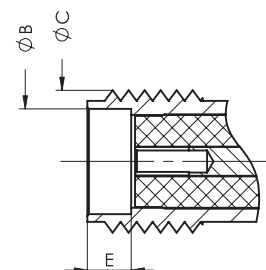
SMA Coaxial Connectors, Mating Area Dimensions

SMA Koaxialkontakte, Abmessungen Steckbereich

Plug
Stift



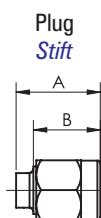
Jack
Buchse



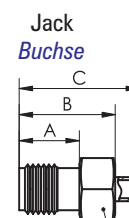
	Plug / <i>Stift</i>		Jack / <i>Buchse</i>	
	min.	max.	min.	max.
A	0,90 (0.035)	0,94 (0.037)	—	—
B	—	4,59 (0.181)	4,60 (0.181)	4,67 (0.184)
C	1/4-36 UNS-2B		1/4-36 UNS-2A	
D	3,43 (0.135)	—	1,88 (0.074)	1,98 (0.078)
E	SW 8 Hex 5/16"		—	—

Dimensions Straight Cable Termination, Semi-rigid (SMA)

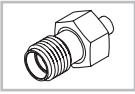
Abmessungen gerader Kabelanschluss, semi-rigid (SMA)



FCT Part Number <i>FCT Teilenummer</i>	A	B	C	Material <i>Material</i>	Suitable Cable <i>Verwendbares Kabel</i>
A23P1NA-103-10	11,6 (0.455)	9,3 (0.365)	—	Stainless steel <i>Rostfreier Stahl</i>	0.086 Semi-rigid
A23P1NA-104-10	11,1 (0.436)	8,8 (0.348)	—		0.141 Semi-rigid
A23P1NA-104-11	11,1 (0.436)	8,8 (0.348)	—		0.141 Semi-rigid
A23P1NA-111-10	11,6 (0.456)	9,3 (0.365)	—	Brass <i>Messing</i>	0.047 Semi-rigid
A24P1NA-103-10	11,6 (0.455)	9,3 (0.365)	—		0.086 Semi-rigid
A24P1NA-104-10	11,1 (0.436)	8,8 (0.348)	—		0.141 Semi-rigid
A24P1NA-104-11	11,1 (0.436)	8,8 (0.348)	—		0.141 Semi-rigid
A24P1NA-111-10	11,6 (0.455)	9,3 (0.365)	—	0.047 Semi-rigid	
A23J1NA-103-10	7,9 (0.312)	12,7 (0.500)	15,9 (0.625)	Brass <i>Messing</i>	0.086 Semi-rigid
A23J1NA-104-10	7,9 (0.312)	12,7 (0.500)	15,9 (0.625)		0.141 Semi-rigid
A23J1NA-111-10	7,9 (0.312)	12,7 (0.500)	15,9 (0.625)		0.047 Semi-rigid
A24J1NA-103-10	7,9 (0.312)	12,7 (0.500)	15,9 (0.625)	Brass <i>Messing</i>	0.086 Semi-rigid
A24J1NA-104-10	7,9 (0.312)	12,7 (0.500)	15,9 (0.625)		0.141 Semi-rigid
A24J1NA-111-10	7,9 (0.312)	12,7 (0.500)	15,9 (0.625)		0.047 Semi-rigid

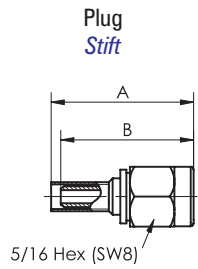


5/16 Hex (SW8)

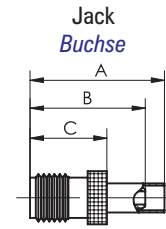


Dimensions Straight Cable Termination (SMA)

Abmessungen gerader Kabelanschluss (SMA)



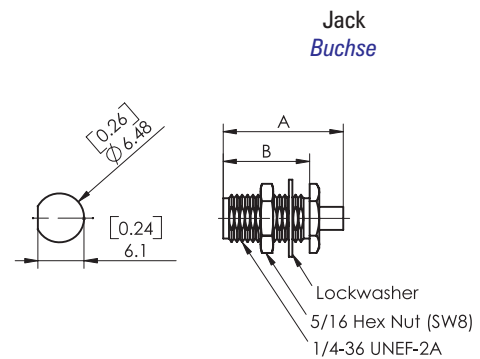
FCT Part Number FCT Teilenummer	A	B	C	Material Material	Suitable Cable Verwendbares Kabel
A23P1NA-201-10	18,9 (0.743)	17,6 (0.693)	—	Stainless steel Rostfreier Stahl	RG316, 188, 174
A23P1NA-205-10	18,9 (0.743)	17,6 (0.693)	—		RG316, 188, 174 D.S.
A23P1NA-209-10	26,4 (1.041)	20,1 (0.791)	—		RG58, 141, 303, LMR 195
A23P1NA-210-10	26,4 (1.041)	20,1 (0.791)	—		RG55, 142, 223, 400
A24P1NA-201-10	18,9 (0.743)	17,6 (0.693)	—	Brass Messing	RG316, 188, 174
A24P1NA-205-10	18,9 (0.743)	17,6 (0.693)	—		RG316, 188, 174 D.S.
A24P1NA-209-10	26,4 (1.041)	20,1 (0.791)	—		RG58, 141, 303, LMR 195
A24P1NA-210-10	26,4 (1.041)	20,1 (0.791)	—		RG55, 142, 223, 400
A23J1NA-201-10	20,1 (0.792)	16,0 (0.630)	9,2 (0.362)	Stainless steel Rostfreier Stahl	RG316, 188, 174
A23J1NA-205-10	20,1 (0.792)	16,0 (0.630)	9,2 (0.362)		RG316, 188, 174 D.S.
A23J1NA-209-10	21,6 (0.851)	17,5 (0.689)	10,7 (0.421)		RG58, 141, 303, LMR 195
A23J1NA-210-10	21,6 (0.851)	17,5 (0.689)	10,7 (0.421)		RG55, 142, 223, 400
A24J1NA-201-10	20,1 (0.792)	16,0 (0.630)	9,2 (0.362)	Brass Messing	RG316, 188, 174
A24J1NA-205-10	20,1 (0.792)	16,0 (0.630)	9,2 (0.362)		RG316, 188, 174 D.S.
A24J1NA-209-10	21,6 (0.851)	17,5 (0.689)	10,7 (0.421)		RG58, 141, 303, LMR 195
A24J1NA-210-10	21,6 (0.851)	17,5 (0.689)	10,7 (0.421)		RG55, 142, 223, 400



Dimensions Straight Cable Termination, Semi-rigid, Bulkhead (SMA)

Abmessungen gerader Kabelanschluss, semi-rigid, Gehäusedurchführung (SMA)

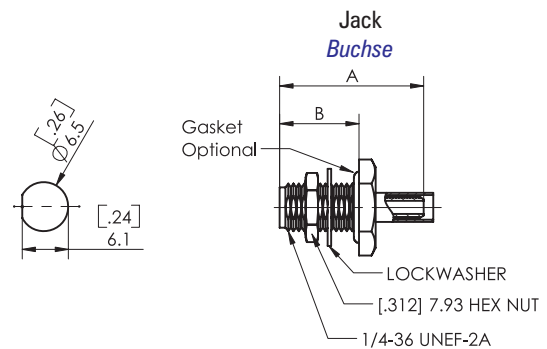
FCT Part Number FCT Teilenummer	A	B	Material Material	Suitable Cable Verwendbares Kabel
A23J1BK-103-10	15,9 (0.625)	11,4 (0.450)	Stainless steel Rostfreier Stahl	0.086 Semi-rigid
A23J1BK-104-10	17,4 (0.684)	11,4 (0.450)		0.141 Semi-rigid
A23J1BK-111-10	15,9 (0.625)	11,4 (0.450)		0.047 Semi-rigid
A24J1BK-103-10	15,9 (0.625)	11,4 (0.450)	Brass Messing	0.086 Semi-rigid
A24J1BK-104-10	17,4 (0.684)	11,4 (0.450)		0.141 Semi-rigid
A24J1BK-111-10	15,9 (0.625)	11,4 (0.450)		0.047 Semi-rigid

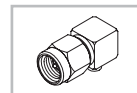


Dimensions Straight Cable Termination, Bulkhead (SMA)

Abmessungen gerader Kabelanschluss, Gehäusedurchführung (SMA)

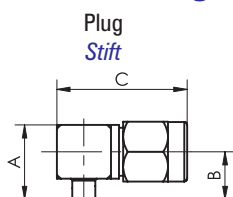
FCT Part Number FCT Teilenummer	A	B	Material Material	Suitable Cable Verwendbares Kabel
A23J1BK-201-10	19,1 (0.750)	10,4 (0.410)	Stainless steel Rostfreier Stahl	RG316, 188, 174
A23J1BK-205-10	19,1 (0.750)	10,4 (0.410)		RG316, 188, 174 D.S.
A23J1BK-209-10	19,1 (0.750)	10,4 (0.410)		RG58, 141, 303, LMR 195
A23J1BK-210-10	19,1 (0.750)	10,4 (0.410)		RG55, 142, 223, 400
A24J1BK-201-10	19,1 (0.750)	10,4 (0.410)	Brass Messing	RG316, 188, 174
A24J1BK-205-10	19,1 (0.750)	10,4 (0.410)		RG316, 188, 174 D.S.
A24J1BK-209-10	19,1 (0.750)	10,4 (0.410)		RG58, 141, 303, LMR 195
A24J1BK-210-10	19,1 (0.750)	10,4 (0.410)		RG55, 142, 223, 400





Dimensions Right Angled Cable Termination, Semi-rigid (SMA)

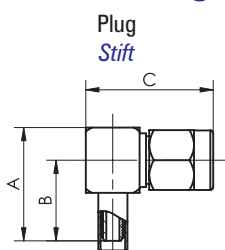
Abmessungen abgewinkelter Kabelanschluss, semi-rigid (SMA)



FCT Part Number FCT Teilenummer	A	B	C	Material Material	Suitable Cable Verwendbares Kabel
A23P2NA-103-10	11,5 (0.451)	7,9 (0.311)	17,2 (0.678)	Stainless steel Rostfreier Stahl	0.086 Semi-rigid
A23P2NA-104-10	11,5 (0.451)	7,9 (0.311)	17,2 (0.678)		0.141 Semi-rigid
A23P2NA-111-10	11,5 (0.451)	7,9 (0.311)	17,2 (0.678)		0.047 Semi-rigid
A24P2NA-103-10	11,5 (0.451)	7,9 (0.311)	17,2 (0.678)	Brass Messing	0.086 Semi-rigid
A24P2NA-104-10	11,5 (0.451)	7,9 (0.311)	17,2 (0.678)		0.141 Semi-rigid
A24P2NA-111-10	11,5 (0.451)	7,9 (0.311)	17,2 (0.678)		0.047 Semi-rigid

Dimensions Right Angled Cable Termination (SMA)

Abmessungen abgewinkelter Kabelanschluss (SMA)

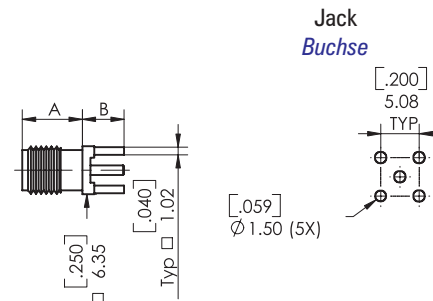


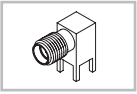
FCT Part Number FCT Teilenummer	A	B	C	Material Material	Suitable Cable Verwendbares Kabel
A23P2NA-201-10	15,0 (0.591)	10,7 (0.421)	16,9 (0.664)	Stainless Steel Rostfreier Stahl	RG316, 188, 174
A23P2NA-205-10	15,0 (0.591)	10,7 (0.421)	16,9 (0.664)		RD316, 188, 174, D.S.
A23P2NA-209-10	15,0 (0.591)	10,7 (0.421)	16,9 (0.664)		RG58, 141, 303, LMR 195
A23P2NA-210-10	15,0 (0.591)	10,7 (0.421)	16,9 (0.664)	Brass Messing	RG55, 142, 223, 400
A24P2NA-201-10	15,0 (0.591)	10,7 (0.421)	16,9 (0.664)		RG316, 188, 174
A24P2NA-205-10	15,0 (0.591)	10,7 (0.421)	16,9 (0.664)		RD316, 188, 174
A24P2NA-209-10	15,0 (0.591)	10,7 (0.421)	16,9 (0.664)		RG58, 141, 303, LMR 195
A24P2NA-210-10	15,0 (0.591)	10,7 (0.421)	16,9 (0.664)	RG55, 142, 223, 400	

Dimensions Straight PCB Termination (SMA)

Abmessungen gerader Leiterplattenanschluss (SMA)

FCT Part Number FCT Teilenummer	A	B	Material Material
A23J1PC-000-10	9,5 (0.375)	3,9 (0.155)	Stainless Steel Rostfreier Stahl
A24J1PC-000-10	9,5 (0.375)	3,9 (0.155)	Brass Messing

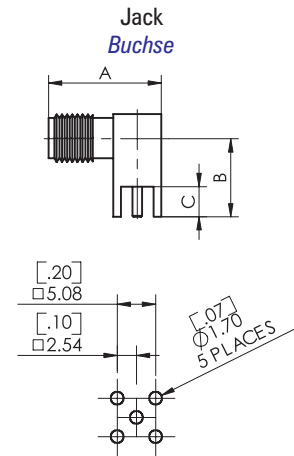




Dimensions Right Angled PCB Termination (SMA)

Abmessungen abgewinkelter Leiterplattenanschluss (SMA)

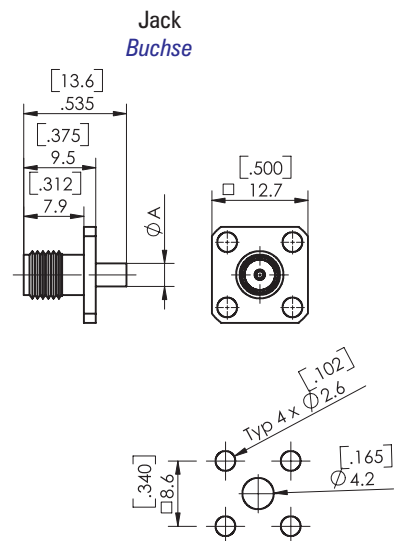
FCT Part Number FCT Teilenummer	A	B	C	Material Material
A23J2PC-000-10	14,9 (0.587)	10,4 (0.409)	3,9 (0.155)	Stainless Steel Rostfreier Stahl
A24J2PC-000-10	14,9 (0.587)	10,4 (0.409)	3,9 (0.155)	Brass Messing



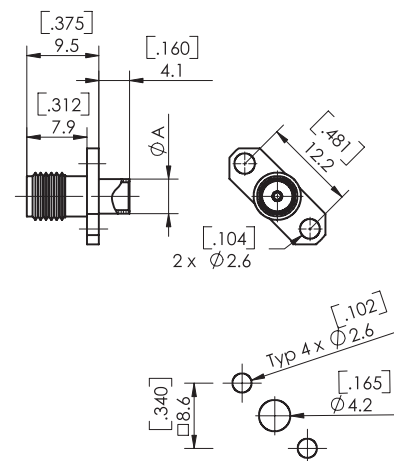
Dimensions Straight Flange Mounted, Semi-rigid (SMA)

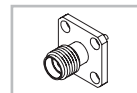
Abmessungen gerade Flanschmontage, Semi-rigid (SMA)

FCT Part Number FCT Teilenummer	A	Material Material	Suitable Cable Verwendbares Kabel
A24J1FL-103-10	3,1 (0.120)	Brass	0.086 Semi-rigid
A24J1FL-104-10	4,6 (0.180)	Messing	0.141 Semi-rigid



FCT Part Number FCT Teilenummer	A	Material Material	Suitable Cable Verwendbares Kabel
A24J1FL-103-11	3,1 (0.120)	Brass	0.086 Semi-rigid
A24J1FL-104-11	3,1 (0.120)	Messing	0.141 Semi-rigid



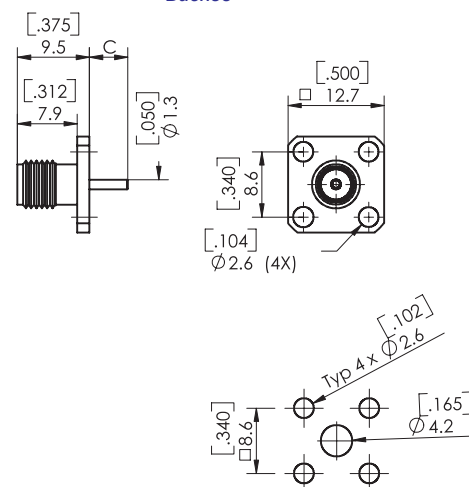


Dimensions Straight Flange Mounted (SMA)

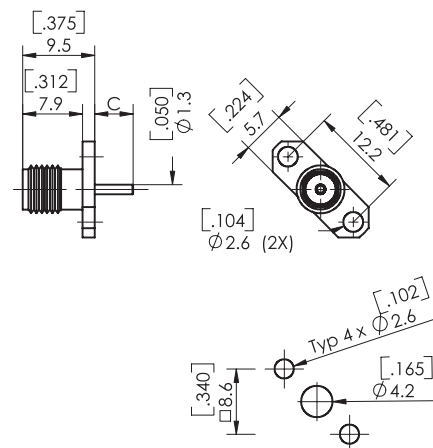
Abmessungen gerade Flanschmontage (SMA)

FCT part number FCT Teilenummer	C	Material Material	Miscellaneous Sonstiges
A23J1FL-000-10	6,0 (0.236)	Stainless steel Rostfreier Stahl	Extended Dielectric
A24J1FL-000-17	5,1 (0.200)	Brass Messing	überstehendes Dielektrikum

Jack
Buchse



FCT part number FCT Teilenummer	C	Material Material
A24J1FL-000-18	5,1 (0.200)	Brass Messing

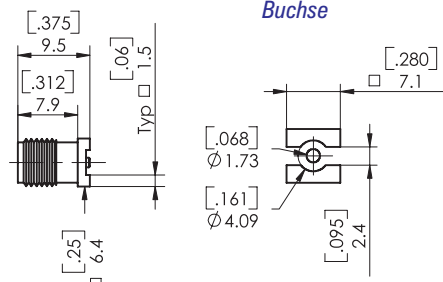


Dimensions Straight Surface Mounted/SMT (SMA)

Abmessungen gerade Oberflächenmontage/SMT (SMA)

FCT Part Number FCT Teilenummer	Material Material
A24J1SF-000-10	Brass Messing

Jack
Buchse



Product Line (SMA)

Lieferübersicht (SMA)

FCT Part Number <i>FCT Teilenummer</i>	Characteristic Impedance <i>Wellenwiderstand</i>	Material <i>Material</i>	Inner Conductor <i>Innenleiter</i>	Suitable Cable <i>Verwendbares Kabel</i>	Mounting <i>Befestigung</i>
Straight Cable Termination / Gerader Kabelanschluss					
A23P1NA-103-10	50 Ohm	Stainless steel <i>Rostfreier Stahl</i>	Plug <i>Stift</i>	0.086 Semi-rigid	
A23P1NA-104-10				0.141 Semi-rigid	
A23P1NA-104-11				0.141 Semi-rigid	Unassembled / <i>Nicht montiert</i>
A23P1NA-111-10				0.047 Semi-rigid	
A23P1NA-201-10				RG316, 188, 174	
A23P1NA-205-10				RG316, 188, 174 D.S.	
A23P1NA-209-10				RG58, 141, 303, LMR 195	
A23P1NA-210-10				RG55, 142, 223, 400	
A23J1BK-103-10				0.086 Semi-rigid	Bulkhead / <i>Gehäusedurchführung</i>
A23J1BK-104-10				0.141 Semi-rigid	Bulkhead / <i>Gehäusedurchführung</i>
A23J1BK-111-10				0.047 Semi-rigid	Bulkhead / <i>Gehäusedurchführung</i>
A23J1BK-201-10				RG316, 188, 174	Bulkhead / <i>Gehäusedurchführung</i>
A23J1BK-205-10				RG316, 188, 174 D.S.	Bulkhead / <i>Gehäusedurchführung</i>
A23J1BK-209-10				RG58, 141, 303, LMR 195	Bulkhead / <i>Gehäusedurchführung</i>
A23J1BK-210-10				RG55, 142, 223, 400	
A23J1NA-103-10		0.086 Semi-rigid			
A23J1NA-104-10		0.141 Semi-rigid			
A23J1NA-111-10		0.047 Semi-rigid			
A23J1NA-201-10		RG316, 188, 174			
A23J1NA-205-10		RG316, 188, 174 D.S.			
A23J1NA-209-10		RG58, 141, 303, LMR 195			
A23J1NA-210-10		RG55, 142, 223, 400			
A24P1NA-103-10		0.086 Semi-rigid			
A24P1NA-104-10		0.141 Semi-rigid			
A24P1NA-104-11		0.141 Semi-rigid	Unassembled / <i>Nicht montiert</i>		
A24P1NA-111-10		0.047 Semi-rigid			
A24P1NA-201-10		RG316, 188, 174			
A24P1NA-205-10		RG316, 188, 174 D.S.			
A24P1NA-209-10		RG58, 141, 303, LMR 195			
A24P1NA-210-10		RG55, 142, 223, 400			
A24J1BK-103-10	0.086 Semi-rigid	Bulkhead / <i>Gehäusedurchführung</i>			
A24J1BK-104-10	0.141 Semi-rigid	Bulkhead / <i>Gehäusedurchführung</i>			
A24J1BK-111-10	0.047 Semi-rigid	Bulkhead / <i>Gehäusedurchführung</i>			
A24J1BK-201-10	RG316, 188, 174	Bulkhead / <i>Gehäusedurchführung</i>			
A24J1BK-205-10	RG316, 188, 174 D.S.	Bulkhead / <i>Gehäusedurchführung</i>			
A24J1BK-209-10	RG58, 141, 303, LMR 195	Bulkhead / <i>Gehäusedurchführung</i>			
A24J1BK-210-10	RG55, 142, 223, 400				
A24J1NA-103-10	0.086 Semi-rigid				
A24J1NA-104-10	0.141 Semi-rigid				
A24J1NA-111-10	0.047 Semi-rigid				
A24J1NA-201-10	RG316, 188, 174				
A24J1NA-205-10	RG316, 188, 174 D.S.				
A24J1NA-209-10	RG58, 141, 303, LMR 195				
A24J1NA-210-10	RG55, 142, 223, 400				
Right Angled Cable Termination / Abgewinkelter Kabelanschluss					
A23P2NA-103-10	50 Ohm	Stainless steel <i>Rostfreier Stahl</i>	Plug <i>Stift</i>	0.086 Semi-rigid	
A23P2NA-104-10				0.141 Semi-rigid	
A23P2NA-111-10				0.047 Semi-rigid	
A23P2NA-201-10				RG316, 188, 174	
A23P2NA-205-10				RD316, 188, 174, D.S.	
A23P2NA-209-10				RG58, 141, 303, LMR 195	
A23P2NA-210-10				RG55, 142, 223, 400	
A24P2NA-103-10				0.086 Semi-rigid	
A24P2NA-104-10				0.141 Semi-rigid	
A24P2NA-111-10				0.047 Semi-rigid	
A24P2NA-201-10				RG316, 188, 174	
A24P2NA-205-10				RD316, 188, 174	
A24P2NA-209-10				RG58, 141, 303, LMR 195	
A24P2NA-210-10				RG55, 142, 223, 400	
Straight PCB Termination / Gerader Leiterplattenanschluss					
A23J1PC-000-10	50 Ohm	Stainless steel <i>Rostfreier Stahl</i>	Jack <i>Buchse</i>		PCB / <i>Leiterplatte</i>
A24J1PC-000-10		Brass <i>Messing</i>			
Right Angled PCB Termination / Abgewinkelter Leiterplattenanschluss /					
A23J2PC-000-10	50 Ohm	Stainless steel <i>Rostfreier Stahl</i>	Jack <i>Buchse</i>		PCB / <i>Leiterplatte</i>
A24J2PC-000-10		Brass <i>Messing</i>			
Straight Flange Mounted, semi-rigid / Gerade Flanschmontage, Semi-rigid					
A24J1FL-103-10	50 Ohm	Brass <i>Messing</i>	Jack <i>Buchse</i>	0.086 Semi-rigid	4 Hole Flange / <i>4 Lochflansch</i>
A24J1FL-103-11				0.086 Semi-rigid	2 Hole Flange / <i>2 Lochflansch</i>
A24J1FL-104-10				0.141 Semi-rigid	4 Hole Flange / <i>4 Lochflansch</i>
A24J1FL-104-11				0.141 Semi-rigid	2 Hole Flange / <i>2 Lochflansch</i>
Straight Flange Mounted / Gerade Flanschmontage					
A23J1FL-000-10	50 Ohm	Stainless steel <i>Rostfreier Stahl</i>	Jack <i>Buchse</i>		4 Hole Flange / <i>4 Lochflansch</i>
A24J1FL-000-17		Brass <i>Messing</i>			4 Hole Flange / <i>4 Lochflansch</i>
A24J1FL-000-11					2 Hole Flange / <i>2 Lochflansch</i>
Straight Surface Mounted (SMT) / Gerade Oberflächenmontage (SMT)					
A24J1FL-000-11	50 Ohm	Brass / <i>Messing</i>	Jack / <i>Buchse</i>		