



CONEC
Elektronische Bauelemente GmbH
Ostenfeldmark 16
59557 Lippstadt
Postfach 1350
59523 Lippstadt
Germany

Tel. +49 2941 765-0
Fax +49 2941 76565
E-Mail info@conec.de
www.conec.com

CONEC Corporation
125 Sun Pac Blvd
Brampton On.
Canada L6S 5Z6
Tel. +1 905 790 2200
Fax +1 905 790 2201
E-Mail info@conec.com

American CONEC Corporation
343 Technology Drive
Garner, NC, USA 27529
Tel. +1 919 460 8800
Fax +1 919 460 0141
E-Mail info@american.conec.com

CONEC (UK) Limited
Unit 9 Rivermead
Pipers Way
Thatcham, Berkshire, RG 19 4EP
Tel. +44 1635 864846
Fax +44 1635 872537
E-Mail conecuk@conec.demon.co.uk

CONEC HISPANA S.L.
Plaza de la Iglesia, 1, 1°
08530 La Garriga, Barcelona, Spain
Tel. +34 938 605 349
Fax +34 938 716 043
E-Mail info@conec-hispana.com

CONEC Polska Sp. zo.o
Aleja Piastów 22a
52-425 Wrocław
Tel. +48 71 36 43002
Fax +48 71 36 43010
E-Mail info@conec.pl

CONEC France
35, rue du Chemin Vert
78390 Bois-D'Arcy
Tel. +33 1 30583709
Fax +33 1 34604794
E-Mail infoconec@aol.com

CONEC GmbH
Schatz-Electronic
Schubertstraße 14a
99096 Erfurt
Germany
Tel. +49 361 34011 0
Fax +49 361 34011 11
E-Mail schatz-electronic@t-online.de

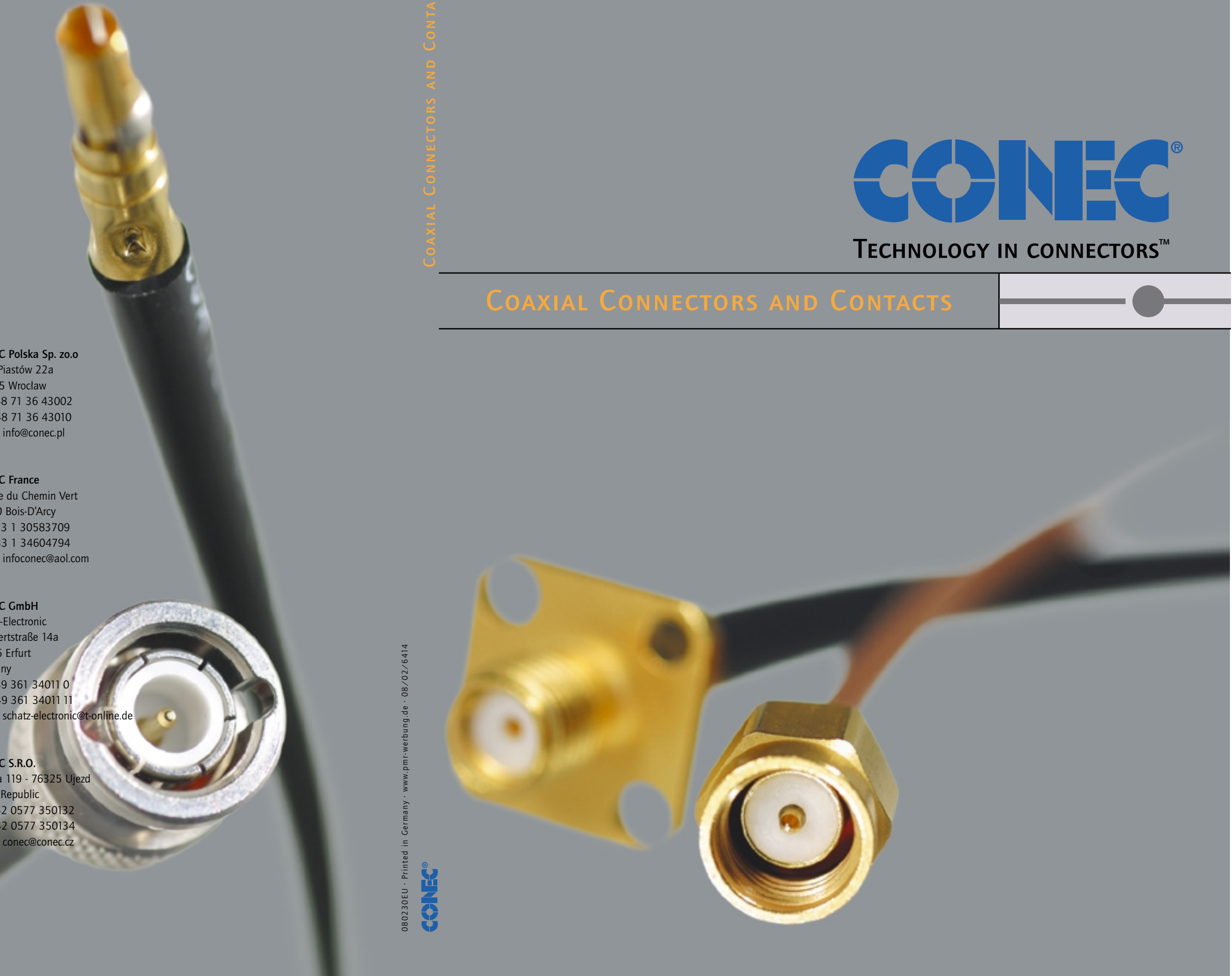
CONEC S.R.O.
Loucka 119 - 76325 Ujezd
Czech Republic
Tel. +42 0577 350132
Fax +42 0577 350134
E-Mail conec@conec.cz

COAXIAL CONNECTORS AND CONTACTS



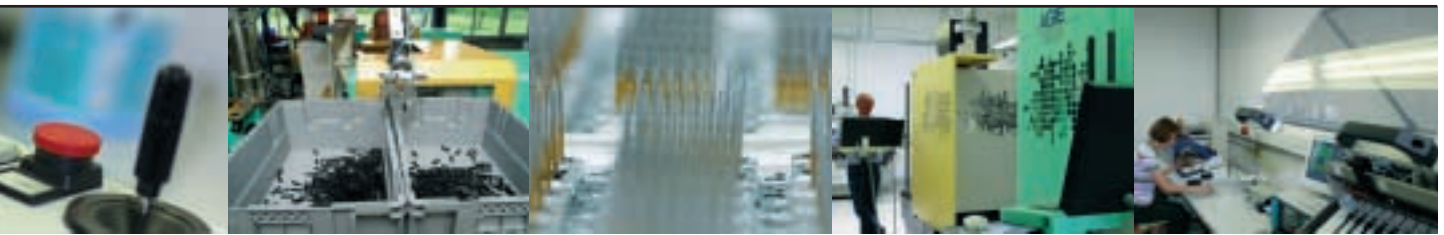
COAXIAL CONNECTORS AND CONTACTS

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CONEC provides reliable and effective solutions to problems faced by electronic equipment manufacturers, contract manufacturers and cable assembly operations.



CONEC is fast to respond to the customers needs, with "just in time" programs, logistic requirements, local inventories, central order entry and processing, broad distribution and total quality management.

CONEC has earned certified supplier status with many of its large customers worldwide.



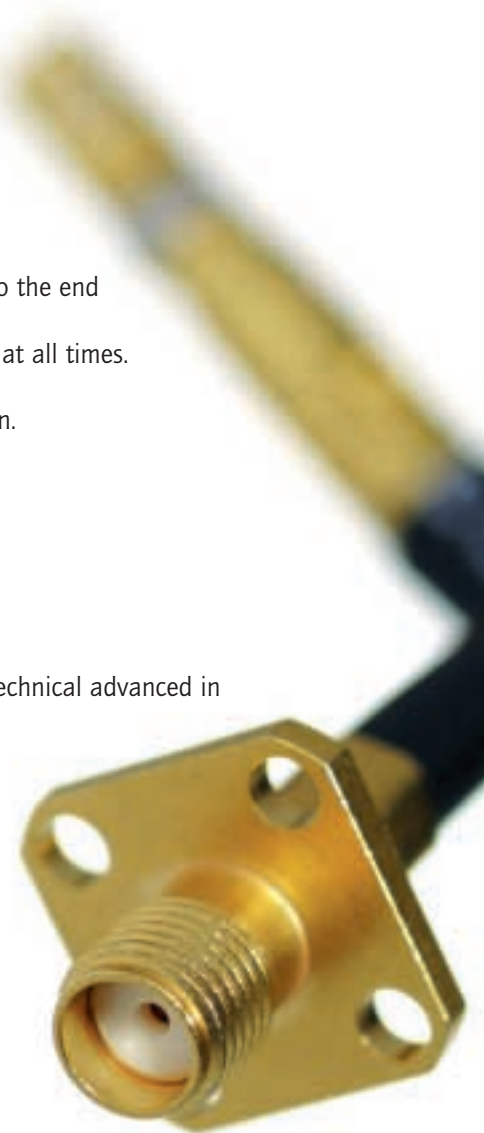
AT CONEC, CUSTOMER SATISFACTION IS THE NUMBER ONE PRIORITY.












CONEC prides itself with its total quality management system. The customer's requirements and specifications are fully adhered to from the design phase to the finished and approved production product. Close coordination on all levels is carried out with the customer. From the initial design concept to the end product our engineering group works closely with the customer at all times. CONEC project management system allows for timely conclusion. CONEC is certified under ISO 9001 and ISO / TS16949. Our products are UL – CSA – VDE listed and approved.



CONEC prides itself with having one of the most technical advanced in house test laboratories, allowing for accurate testing and measurement of its products. At CONEC we believe that customer service combined with quality products at an affordable price provides customer satisfaction.



INDEX

1 1	Section 1 SMA Coaxial Connectors	
2 1	Section 2 SSMA Coaxial Connectors	
3 1	Section 3 BNC Coaxial Connectors	
4 1	Section 4 D-Sub Coaxial Contacts	
5 1	Section 5 DIN Coaxial Contacts	
6 1	Section 6 D-Sub High Power and High Voltage Contacts	
7 1	Section 7 DIN High Power Contacts	
8 1	Section 8 Tools	
9 1	Section 9 Part Numbers	



SECTION 1

SMA COAXIAL CONNECTORS

SMA coaxial connectors are manufactured with high precision and are of high reliability. These connectors are easy and fast to assemble. They offer the perfect solution for high level performance applications. The electrical characteristics allow for low VSWR and are suitable to function from DC to 18GHz used with semi rigid cable, and from DC to 12GHz with flexible cable.



The SMA coaxial connectors are available in many configurations, printed circuit mount, panel mount, and flange mounting.

Typical applications are, telecommunications, data communications, cellular networks, wireless communications, gps, gsm, umts and measurement and test equipment.



The impedance is 50Ω. The outer body of the connectors are made from high grade brass, gold or nickel plated versions are available.

The inner (center) contacts are made in brass or beryllium copper and are gold plated. Several plating options are available.

For special applications consult factory.

SMA coaxial connectors applicable standards:

EC169-15, CECC 22110, MIL-C-3902

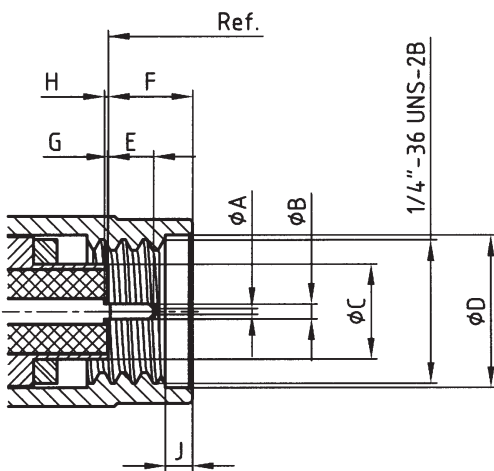
Technical Data	SMA Coaxial Connectors
Electrical Data	
Characteristic impedance	50 Ω
Frequency range Semi rigid cable Flexible cable	DC - 18 GHz DC - 12,4 GHz
VSWR Straight connector semi rigid Angled connector semi rigid Straight connector flexible cable Angled connector flexible cable	1,07 + 0,009 f (GHz) 1,10 + 0,009 f (GHz) 1,20 + 0,030 f (GHz) 1,20 + 0,033 f (GHz)
Proof voltage Semi rigid cable Flexible cable	1000V / 50Hz 750V / 50Hz
Working voltage Semi rigid cable Flexible cable	335V / 50Hz 250V / 50Hz
Insulation resistance	≥ 5 GΩ
Contact resistance Centre contact Outer contact	≤ 3 mΩ ≤ 2 mΩ
Mechanical Data	
Coupling nut torque	0,45 Nm (500 Mating cycles)
Coupling nut retention force	≥ 270 N
Mating cycles	500 / 100
Environmental	
Temperature range	-55°C to 155°C
Relative humidity	MIL-STD-202, Method 106
Shock	MIL-STD-202, Method 213, Cond. I
Vibration	MIL-STD-202, Method 204, Cond. D
Corrosion	MIL-STD-202, Method 101, Cond. B
Materials	
Housing	Brass ¹
Pin contacts	Brass
Socket contacts	CuBe
Spring lock washer	CuBe
Crimp ferrules	Brass
Insulators	PTFE
Gasket	Silicone rubber
Plating	
Housing	Au, Ni
Centre contact	Au
Crimp ferrules	Au, Ni

¹ other materials on request

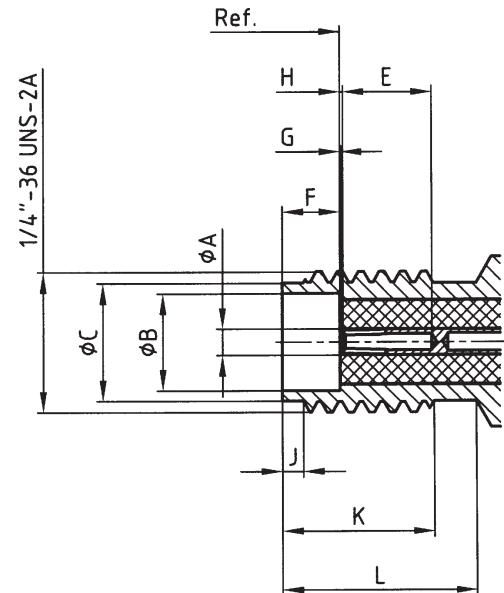
Specifications are subject to change without notice.

Connection dimensions

Plug

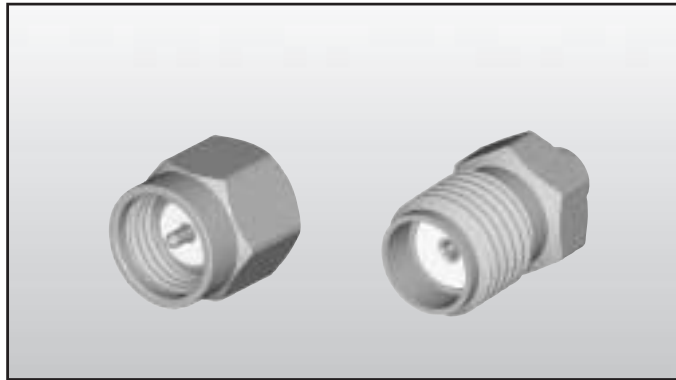


Socket

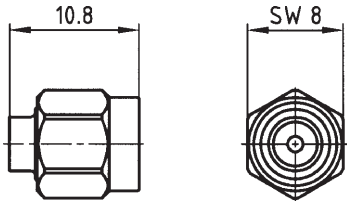


Dim.	Plug		Socket	
	min.	max.	min.	max.
A		0,380	1,245	1,295
B	0,902	0,940	4,600	4,670
C		4,590	5,280	5,490
D	6,350			
E		2,540	2,920	
F		3,430	1,880	1,980
G		0,180		0,180
H				0,410
J	0,380	1,140	0,380	1,140
K			4,320	
L			5,540	

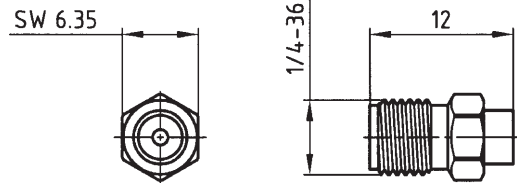
Plug and Socket connectors
for Semi-Rigid cable
solder termination



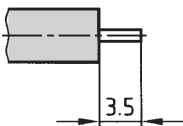
Plug connector



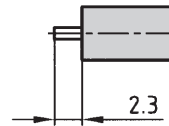
Socket connector



Cable stripping dimensions



Cable stripping dimensions

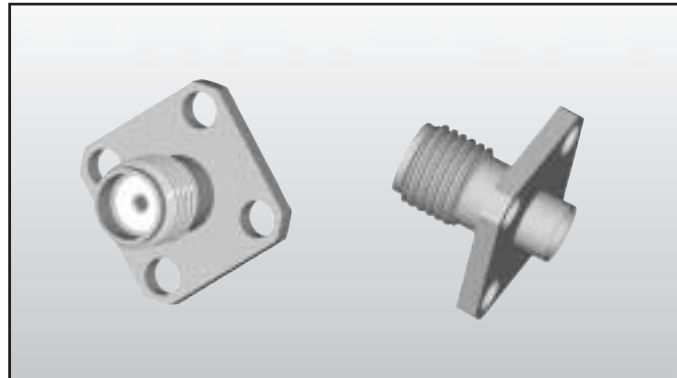


Part numbers

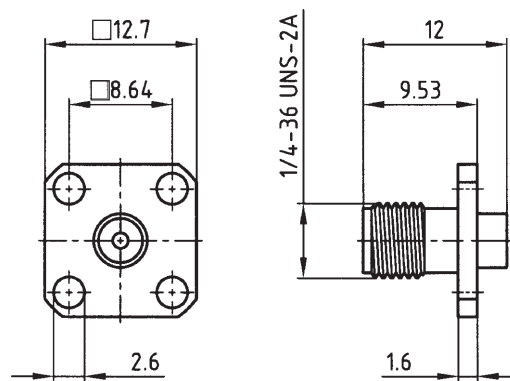
Kat 1 i XEA

Kat 1 i XFA

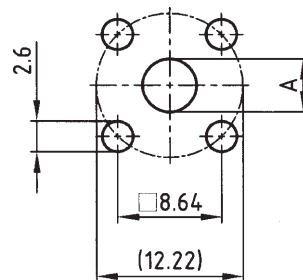
Usable cable RG	Mating cycles	Plug connector		Socket connector Gold plated
		Gold plated	Nickel plated	
402/U	500	SMA-50P JG 0112 BR	SMA-50P JN 0112 BR	SMA-50S JG 0112 BR
402/U	100	SMA-50P AG 0112 BR	SMA-50P AN 0112 BR	SMA-50S AG 0112 BR
405/U	500	SMA-50P JG 0113 BR	SMA-50P JN 0113 BR	SMA-50S JG 0113 BR
405/U	100	SMA-50P AG 0113 BR	SMA-50P AN 0113 BR	SMA-50S AG 0113 BR



Panel or chassis mount
Socket connectors
flange mounting (4) mounting
holes suitable for
Semi-Rigid cable



Mounting hole pattern

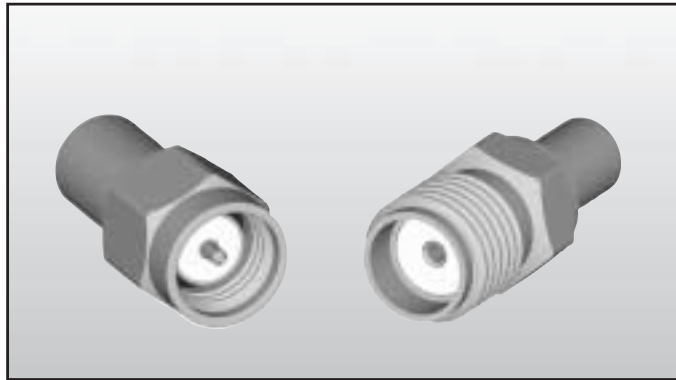


Kat 1 i WWA

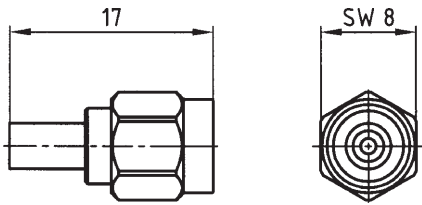
Part numbers

Usable cable RG	Dim. A	Mating cycles	Socket connector
402/U	min. 5.0	500	SMA-50S JG 5612 BR
402/U	min. 5.0	100	SMA-50S AG 5612 BR
405/U	min. 3.5	500	SMA-50S JG 5613 BR
405/U	min. 3.5	100	SMA-50S AG 5613 BR

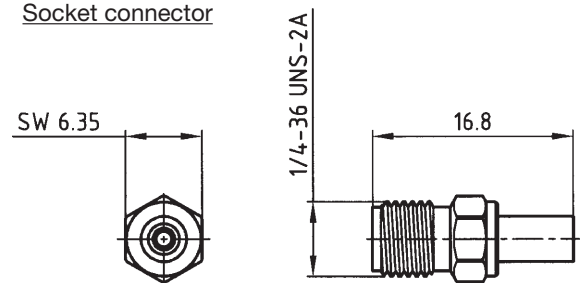
Plug and Socket connectors
solder/crimp type for use with
flexible cable



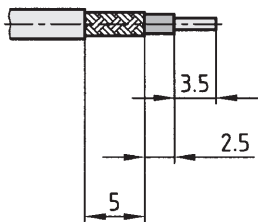
Plug connector



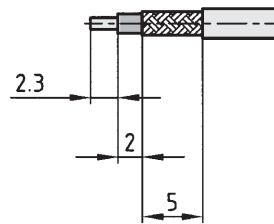
Socket connector



Cable stripping dimensions



Cable stripping dimensions

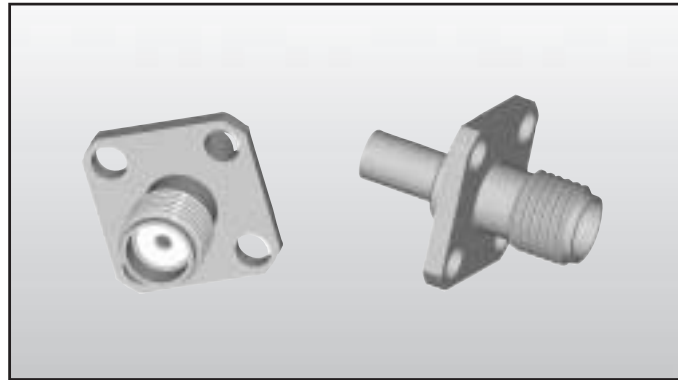


Part numbers

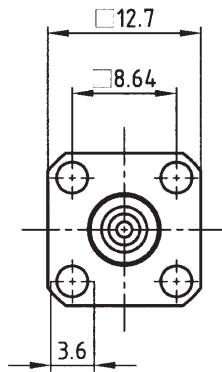
Kat 1 i XGA

Kat 1 i XHA

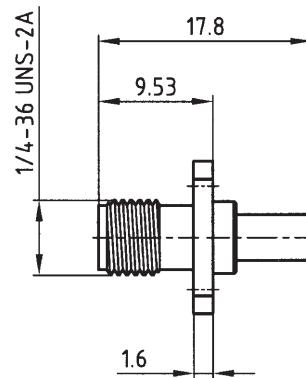
Usable cable RG	Mating cycles	Plug connector		Socket connector	
		Gold plated	Nickel plated	Gold plated	Nickel plated
316/U	500	SMA-50P JG 0302 BR	SMA-50P JN 0302 BR	SMA-50S JG 0302 BR	SMA-50S JN 0302 BR
316/U	100	SMA-50P AG 0302 BR	SMA-50P AN 0302 BR	SMA-50S AG 0302 BR	SMA-50S AN 0302 BR
58 C/U	500	SMA-50P JG 0304 BR	SMA-50P JN 0304 BR	SMA-50S JG 0304 BR	SMA-50S JN 0304 BR
58 C/U	100	SMA-50P AG 0304 BR	SMA-50P AN 0304 BR	SMA-50S AG 0304 BR	SMA-50S AN 0304 BR



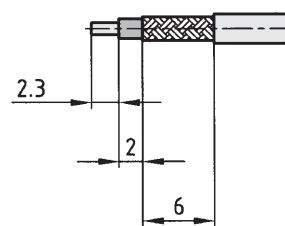
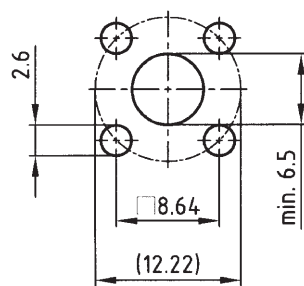
Panel or chassis mount
Socket connectors
flange mounting (4) mounting
holes suitable
for flexible cable



Mounting hole pattern



Cable stripping dimensions

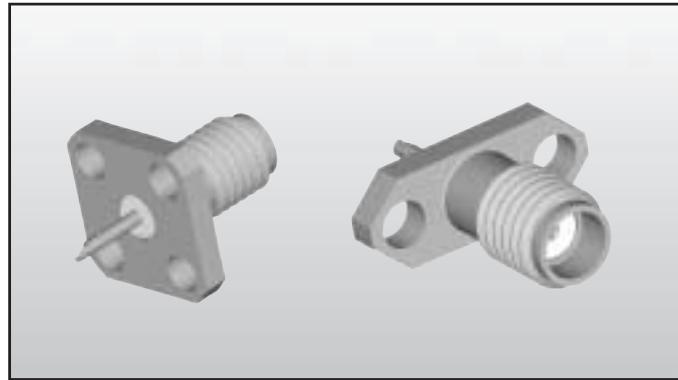


Kat 1 | WXA

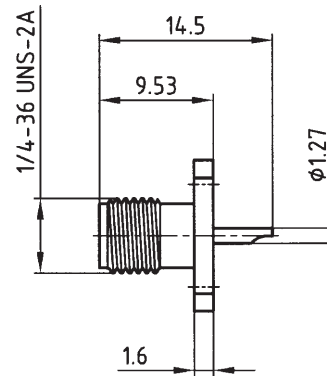
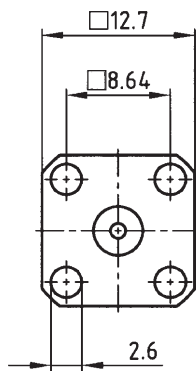
Part numbers

Usable cable RG	Mating cycles	Socket connector	
		Gold plated	Nickel plated
316/U	500	SMA-50S JG 5702 BR	SMA-50S JN 5702 BR
316/U	100	SMA-50S AG 5702 BR	SMA-50S AN 5702 BR
58 C/U	500	SMA-50S JG 5704 BR	SMA-50S JN 5704 BR
58 C/U	100	SMA-50S AG 5704 BR	SMA-50S AN 5704 BR

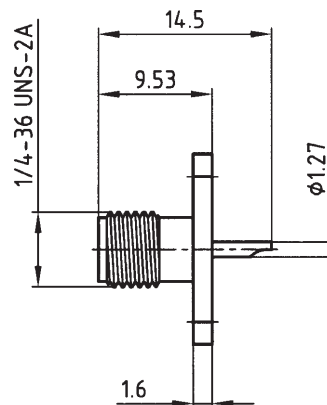
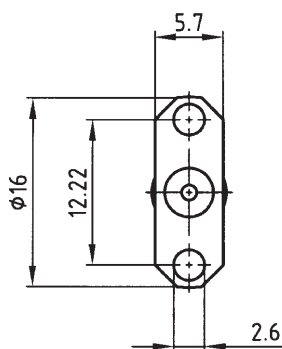
Panel or chassis mount
Socket connectors
(4) hole and (2) hole mounting,
solder termination



(4) Hole mounting



(2) Hole mounting

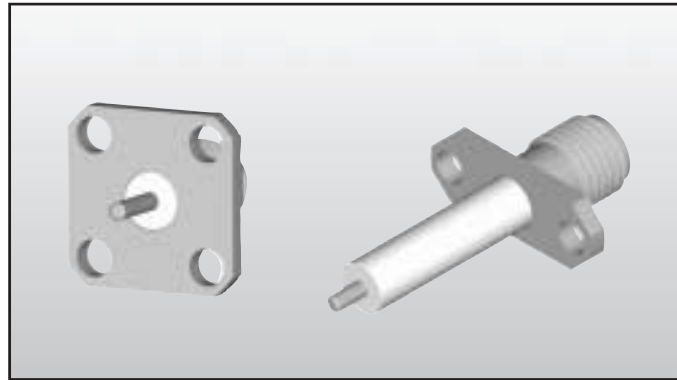


Kat 1 i WYA

Part numbers

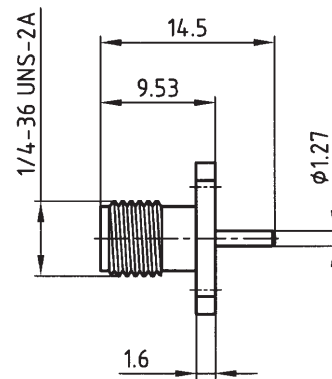
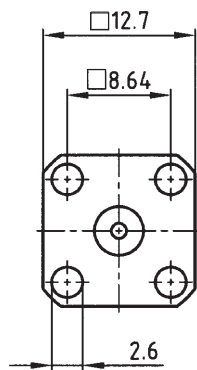
Kat 1 i WZA

Mating cycles	(4) Hole mounting socket connector		(2) Hole mounting socket connector	
	Gold plated	Nickel plated	Gold plated	Nickel plated
500	SMA-50S JG 5899 BR	SMA-50S JN 5899 BR	SMA-50S JG 5999 BR	SMA-50S JN 5999 BR
100	SMA-50S AG 5899 BR	SMA-50S AN 5899 BR	SMA-50S AG 5999 BR	SMA-50S AN 5999 BR

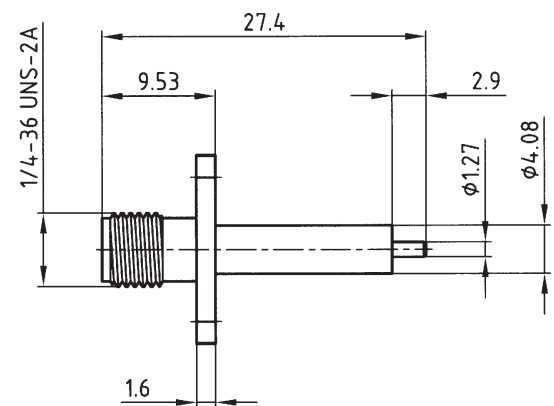
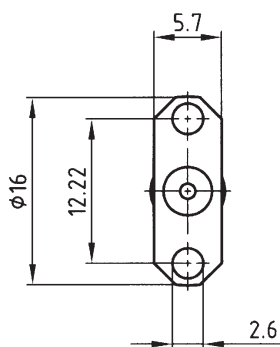


Panel or chassis mount
Socket connectors
(4) hole and (2) hole mounting
extended insulation barrel

(4) Hole mounting



(2) Hole mounting



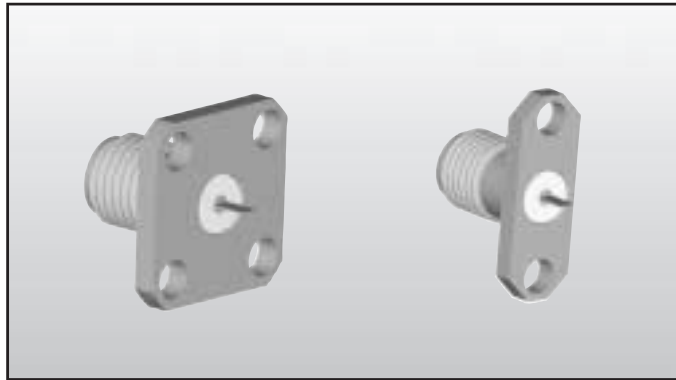
Part numbers

Kat 1 i XAA

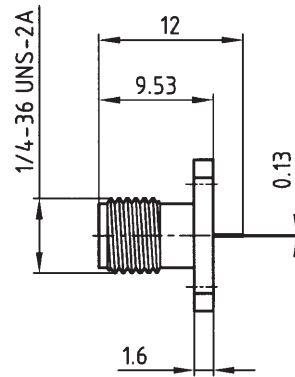
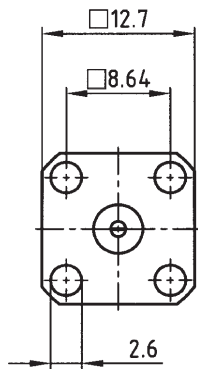
Kat 1 i XBA

Mating cycles	(4) Hole mounting socket connector		(2) Hole mounting socket connector	
	Gold plated	Nickel plated	Gold plated	Nickel plated
500	SMA-50S JG 6099 BR	SMA-50S JN 6099 BR	SMA-50S JG 6199 BR	SMA-50S JN 6199 BR
100	SMA-50S AG 6099 BR	SMA-50S AN 6099 BR	SMA-50S AG 6199 BR	SMA-50S AN 6199 BR

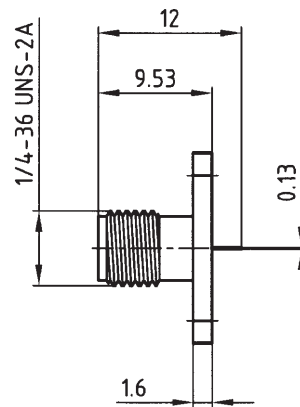
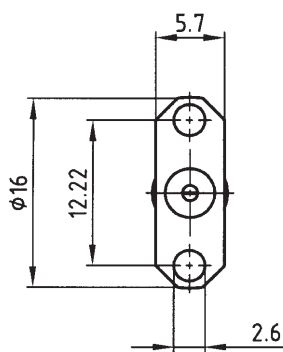
Panel or chassis mount
Socket connectors
(4) hole and (2) hole mounting
with stripline



(4) Hole mounting



(2) Hole mounting

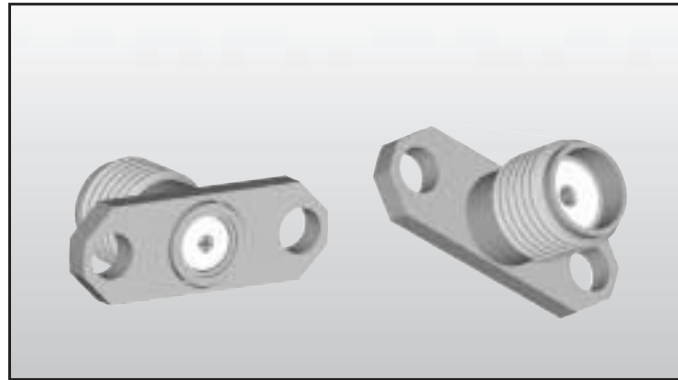


Part numbers

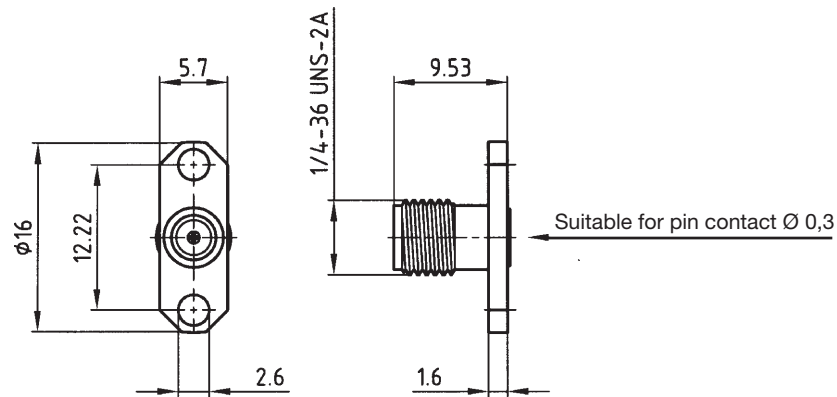
Kat 1 i XCA

Kat 1 i XDA

Mating cycles	(4) Hole mounting socket connector		(2) Hole mounting socket connector	
	Gold plated	Nickel plated	Gold plated	Nickel plated
500	SMA-50S JG 6299 BR	SMA-50S JN 6299 BR	SMA-50S JG 6399 BR	SMA-50S JN 6399 BR
100	SMA-50S AG 6299 BR	SMA-50S AN 6299 BR	SMA-50S AG 6399 BR	SMA-50S AN 6399 BR



Panel or chassis mount
Socket connectors
with replaceable
contact termination
(2) hole mounting



Part numbers

Kat 1 i XKA

Mating cycles	Socket connector	
	Gold plated	Nickel plated
500	SMA-50S JG 6599 BR	SMA-50S JN 6599 BR
100	SMA-50S AG 6599 BR	SMA-50S AN 6599 BR

SECTION 2

SSMA COAXIAL CONNECTORS

SSMA coaxial connectors are manufactured with high precision and are of high reliability. These coaxial connectors are micro miniature in size and are suitable where space is limited. The electrical characteristics allow for very low VSWR and have a theoretical capability to operate from DC to 40GHZ. The SSMA coaxial connectors are available in many configurations, they are suitable for flexible cable, semi rigid cable and can be mounted directly to the printed circuit board or handsoldered or crimped to the cable. Typical applications are, telecommunications, data communications, cellular networks, portable instrumentation and test equipment, medical electronics, wireless communications, gps, gsm or umts systems.





The impedance of the SSMA coaxial connectors is 50Ω. The outer body is made from high grade brass and is gold or nickel plated.

The inner (center) contacts are brass or beryllium copper and are gold plated.

For other plating options consult factory.

SSMA coaxial connectors applicable standard:

CECC 22160

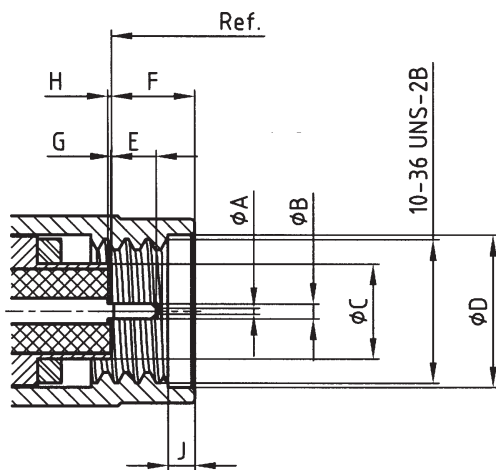
Technical Data	SSMA Coaxial Connectors
Electrical Data	
Characteristic impedance	50 Ω
Frequency range Semi rigid cable Flexible cable	DC - 18 GHz (theoretical 40GHz) DC - 12,4 GHz
VSWR Straight connector semi rigid Angled connector semi rigid Straight connector flexible cable Angled connector flexible cable	1,07 + 0,009 f (GHz) 1,10 + 0,009 f (GHz) 1,20 + 0,030 f (GHz) 1,20 + 0,033 f (GHz)
Proof voltage Semi rigid cable Flexible cable	500V / 50Hz 500V / 50Hz
Working voltage Semi rigid cable Flexible cable	175V / 50Hz 175V / 50Hz
Insulation resistance	$\geq 1G\Omega$
Contact resistance Centre contact Outer contact	$\leq 4,0m\Omega$ $\leq 2,5m\Omega$
Mechanical Data	
Coupling nut torque	0,4Nm (500 Mating cycles)
Coupling nut retention force	$\geq 100N$
Mating cycles	500 / 100
Environmental	
Temperature range	-55°C to 155°C
Relative humidity	MIL-STD-202, Method 106
Shock	MIL-STD-202, Method 213, Cond. I
Vibration	MIL-STD-202, Method 204, Cond. D
Corrosion	MIL-STD-202, Method 101, Cond. B
Materials	
Housing	Brass ¹
Pin contacts	Brass
Socket contacts	CuBe
Spring lock washer	CuBe
Crimp ferrules	Brass
Insulators	PTFE
Gasket	Silicone rubber
Plating	
Housing	Au, Ni
Centre contact	Au
Crimp ferrules	Au, Ni

¹ other materials on request

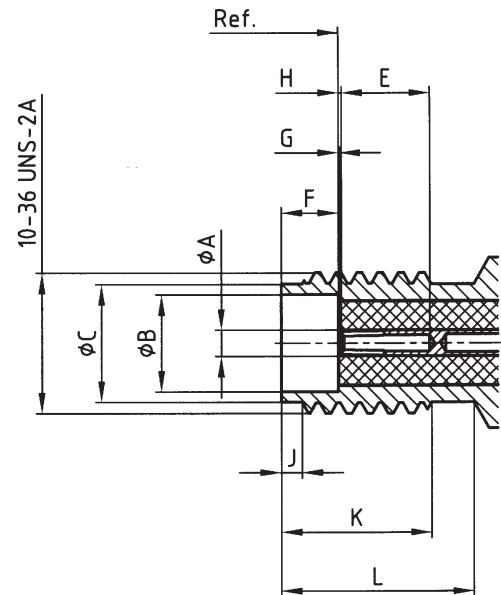
Specifications are subject to change without notice.

Connection dimensions

Plug

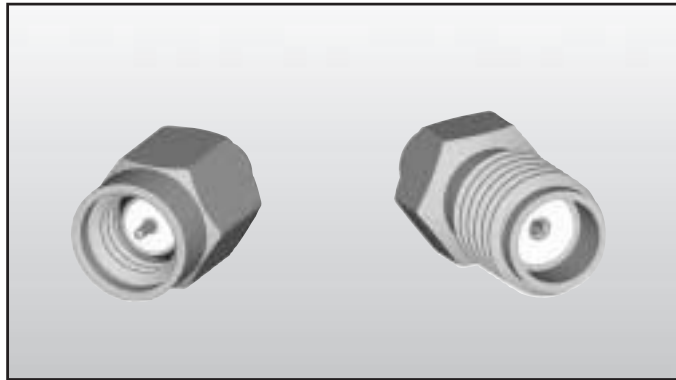


Socket

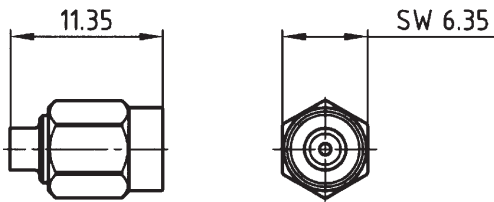


Dim.	Plug		Socket	
	min.	max.	min.	max.
A		0,250		
B	0,495	0,528	3,320	3,300
C	3,150	3,220	3,890	4,060
D	4,980			
E		1,650	2,920	
F		3,430	1,880	1,980
G		0,180		0,180
H				0,410
J	0,380	1,140	0,380	1,140
K			4,320	
L			5,790	

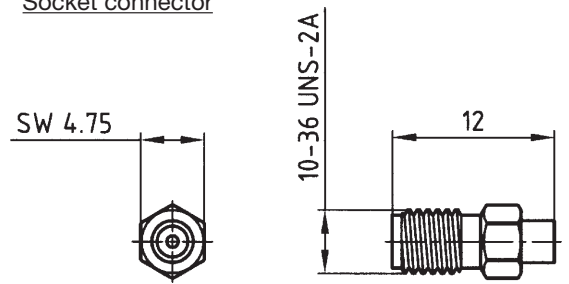
Plug and Socket connectors
for Semi-Rigid cable
solder termination



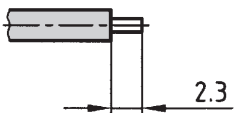
Plug connector



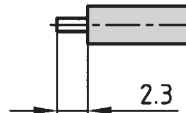
Socket connector



Cable stripping dimensions



Cable stripping dimensions

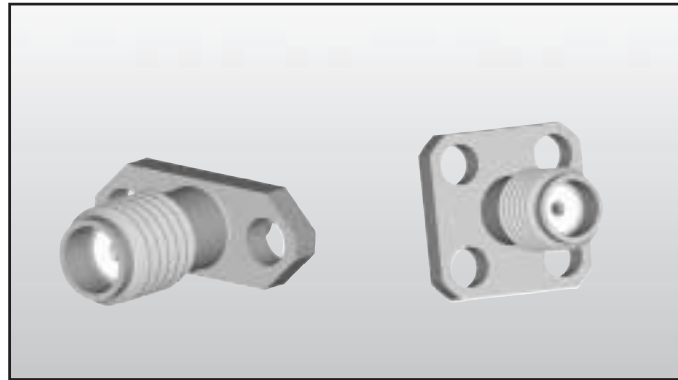


Part numbers

Kat 1 i XLA

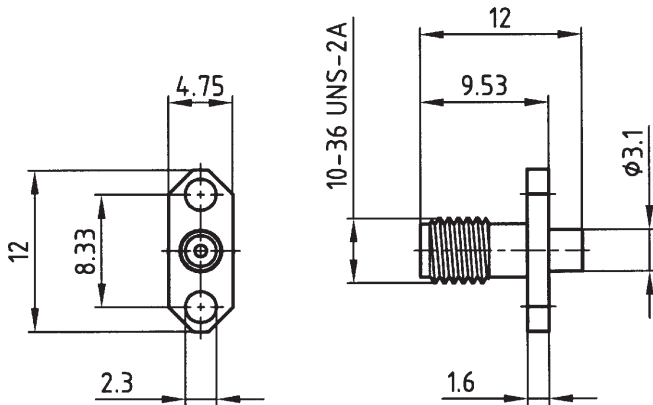
Kat 1 i XMA

Usable cable RG	Mating cycles	Plug connector		Socket connector
		Gold plated	Nickel plated	Gold plated
405/U	500	SSMA-50P JG 0113 BR	SSMA-50P JN 0113 BR	SSMA-50S JG 0113 BR
405/U	100	SSMA-50P AG 0113 BR	SSMA-50P AN 0113 BR	SSMA-50S AG 0113 BR

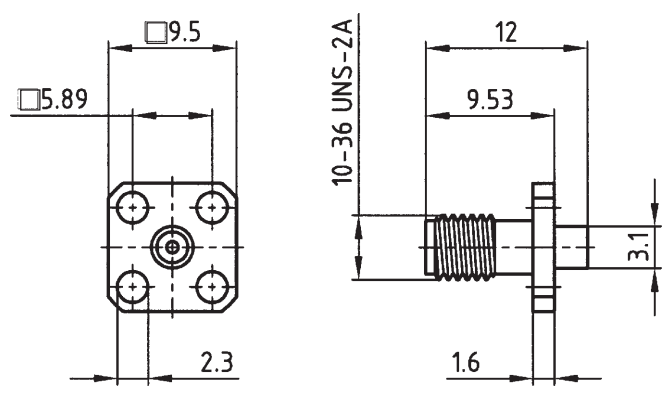


Panel or chassis mount
Socket connectors.
(4) hole and (2) hole mounting
for Semi-Rigid cable
solder termination

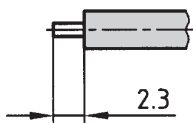
(2) Hole mounting



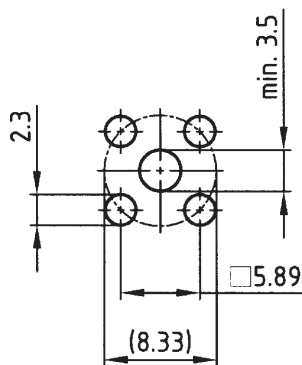
(4) Hole mounting



Cable stripping dimensions



Mounting hole pattern



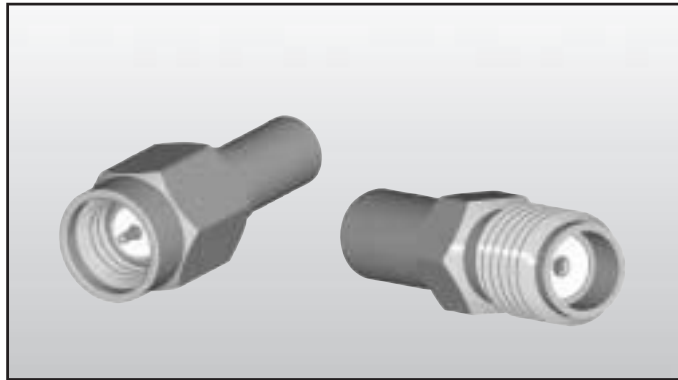
Kat 1 i XNA

Part numbers

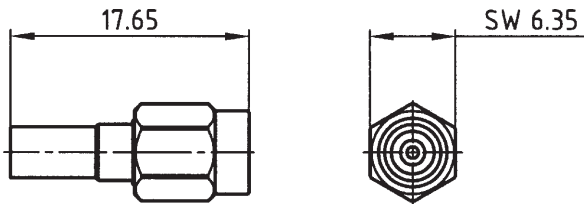
Kat 1 i XPA

Usable cable RG	Mating cycles	(2) Hole mounting socket connector Gold plated	(4) Hole mounting socket connector Gold plated
405/U	500	SSMA-50S JG 6613 BR	SSMA-50S JG 5613 BR
405/U	100	SSMA-50S AG 6613 BR	SSMA-50S AG 5613 BR

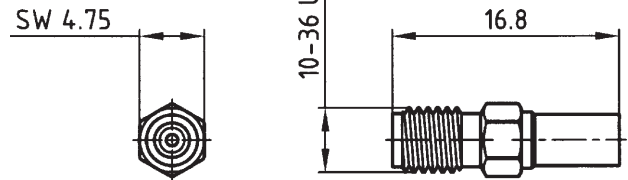
**Plug and Socket connectors
solder/crimp type for use
with flexible cable**



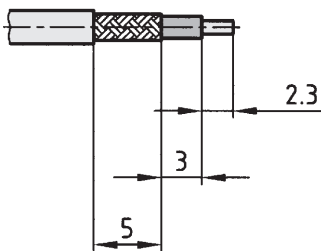
Plug connector



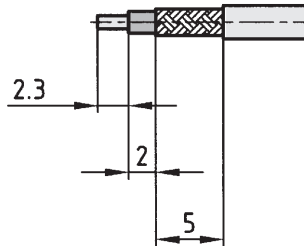
Socket connector



Cable stripping dimensions



Cable stripping dimensions

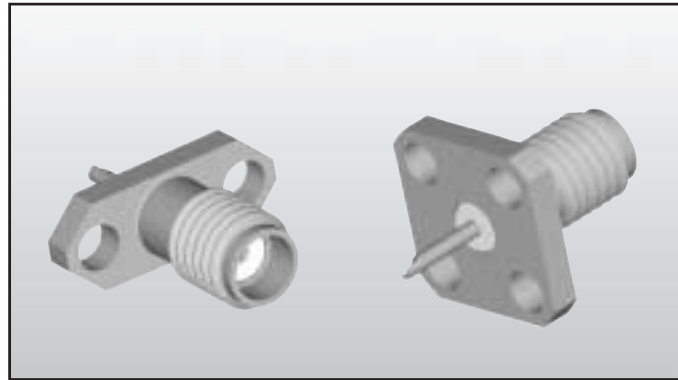


Part numbers

Kat 1 i XRA

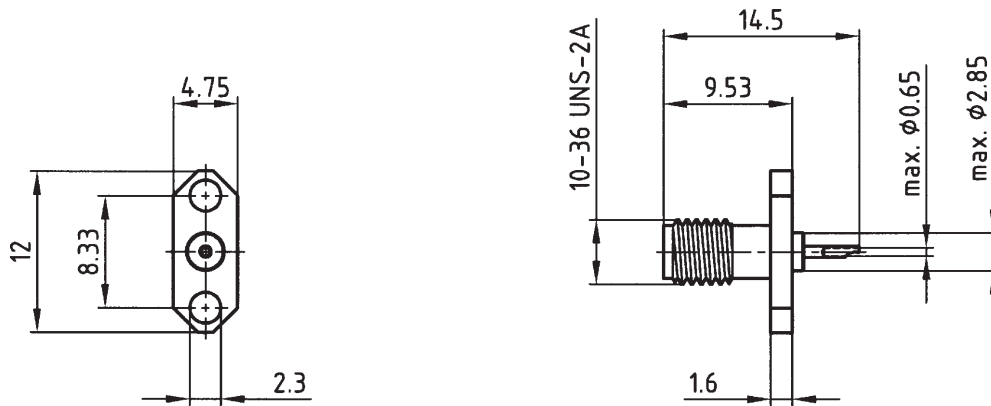
Kat 1 i XQA

Usable cable RG	Mating cycles	Plug connector		Socket connector	
		Gold plated	Nickel plated	Gold plated	Nickel plated
174U, 188A/U, 316U	500	SSMA-50P JG 0302 BR	SSMA-50P JN 0302 BR	SSMA-50S JG 0302 BR	SSMA-50S JN 0302 BR
174U, 188A/U, 316U	100	SSMA-50P AG 0302 BR	SSMA-50P AN 0302 BR	SSMA-50S AG 0302 BR	SSMA-50S AN 0302 BR

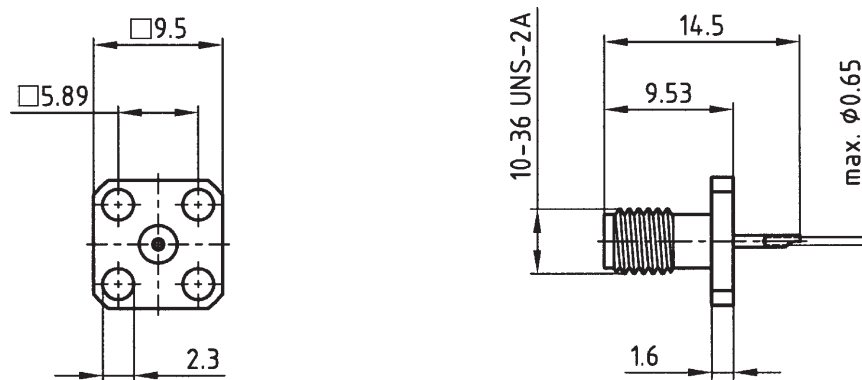


Panel and chassis mount
Socket connectors,
(4) hole and (2) hole mounting
solder termination

(2) Hole mounting



(4) Hole mounting



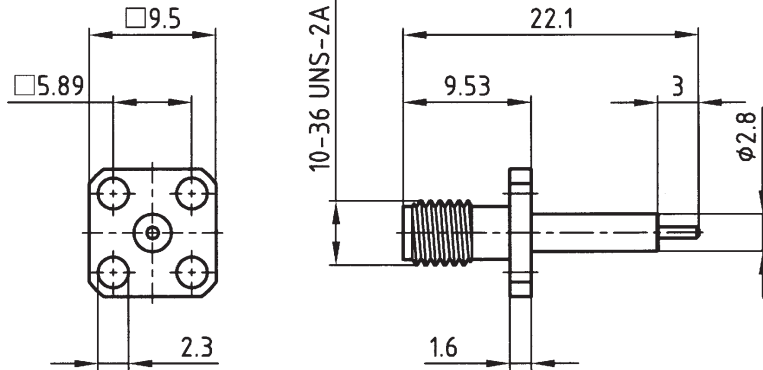
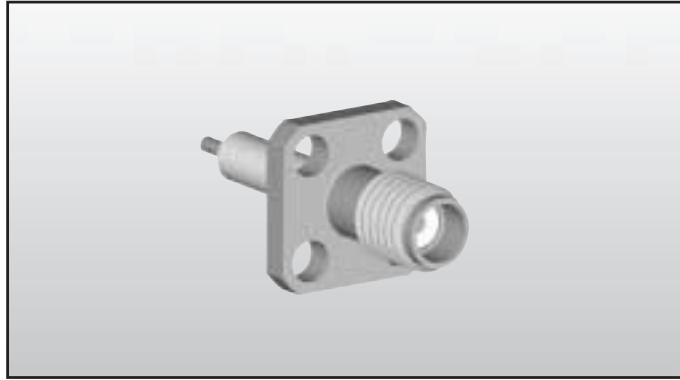
Kat 1 i XSA

Part numbers

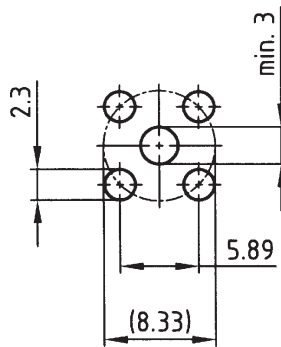
Kat 1 i XTA

Mating cycles	(2) Hole mounting socket connector		(4) Hole mounting socket connector	
	Gold plated	Nickel plated	Gold plated	Nickel plated
500	SSMA-50S JG 6799 BR	SSMA-50S JN 6799 BR	SSMA-50S JG 5899 BR	SSMA-50S JN 5899 BR
100	SSMA-50S AG 6799 BR	SSMA-50S AN 6799 BR	SSMA-50S AG 5899 BR	SSMA-50S AN 5899 BR

Panel or chassis mount
Socket connectors
(4) hole mounting
extended insulation barrel



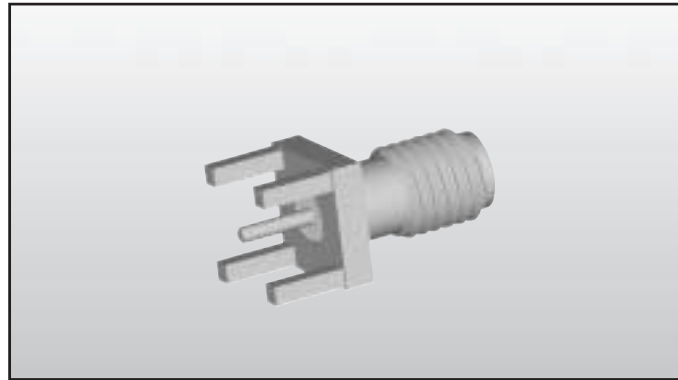
Mounting hole pattern



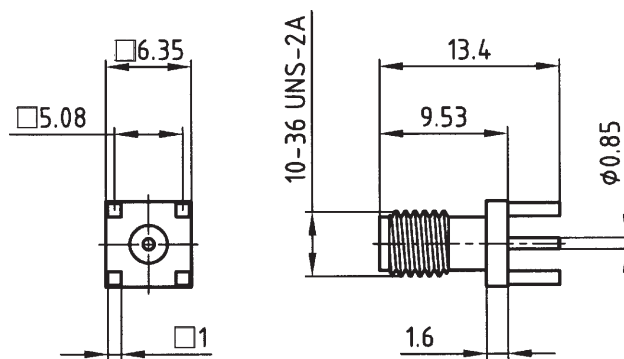
Kat 1 i XUA

Part numbers

Mating cycles	(4) Hole mounting socket connector	
	Gold plated	Nickel plated
500	SSMA-50S JG 6899 BR	SSMA-50S JN 6899 BR
100	SSMA-50S AG 6899 BR	SSMA-50S AN 6899 BR



Socket connector for PCB
mounting through hole
solder application

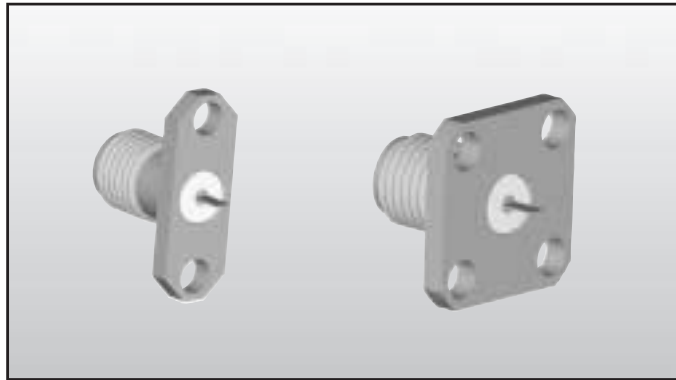


Part numbers

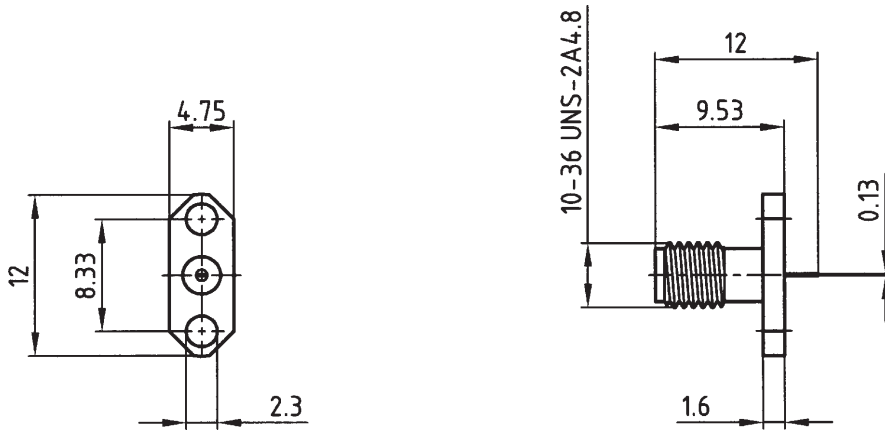
Kat 1 i XVA

Mating cycles	Socket connector PCB mounting Gold plated
500	SSMA-50S JG 5199 BR
100	SSMA-50S AG 5199 BR

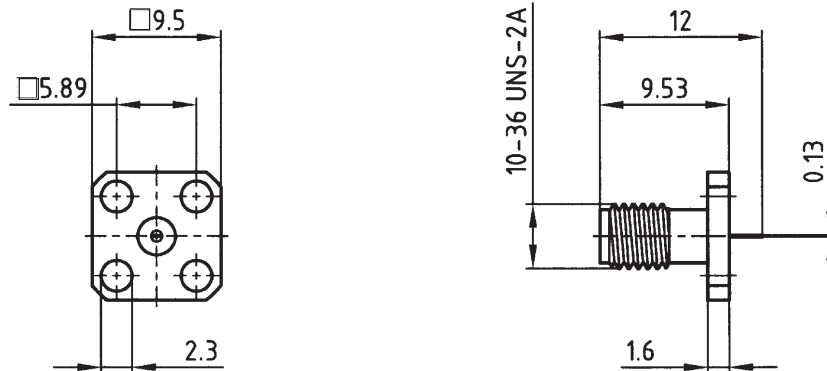
Panel or chassis mount
Socket connectors
(4) hole and (2) hole mounting
with stripline



(2) Hole mounting



(4) Hole mounting



Kat 1 i XWA

Part numbers

Kat 1 i XXA

Mating cycles	(2) Hole mounting socket connector		(4) Hole mounting socket connector	
	Gold plated	Nickel plated	Gold plated	Nickel plated
500	SSMA-50S JG 6399 BR	SSMA-50S JN 6399 BR	SSMA-50S JG 6299 BR	SSMA-50S JN 6299 BR
100	SSMA-50S AG 6399 BR	SSMA-50S AN 6399 BR	SSMA-50S AG 6299 BR	SSMA-50S AN 6299 BR

Metric measures - Imperial measurement

m	micro inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
1/1000 mm	1/1000 inch										
0,10	4	3,80	.150	11,60	.457	22,00	.866	33,30	1.311	50,80	2.000
0,20	8	3,81	.150	11,90	.469	22,10	.870	33,80	1.331		
0,25	10	3,90	.154			22,20	.874			51,40	2.024
0,30	12			12,00	.472	22,30	.878	34,00	1.339	51,50	2.028
0,50	20	4,00	.158	12,20	.480	22,40	.882	34,20	1.346		
0,70	28	4,10	.161	12,30	.484	22,50	.886	34,40	1.354	52,00	2.047
0,75	30	4,20	.165	12,40	.488	22,60	.890			52,30	2.059
0,80	32	4,30	.169	12,50	.492	22,80	.898	35,00	1.378	52,80	2.079
1,00	39	4,50	.177	12,70	.500	22,86	.900	35,40	1.394		
1,27	50	4,70	.185	12,90	.508	22,90	.902	35,50	1.398	53,00	2.087
2,00	79	4,90	.193					35,56	1.400	53,20	2.095
2,50	98	5,00	.197	13,00	.512	23,00	.906	35,60	1.402	53,80	2.118
		5,08	.200	13,10	.516	23,10	.909				
3,00	118	5,10	.201	13,20	.520	23,30	.917	36,00	1.417	54,00	2.126
4,00	157	5,20	.205	13,50	.532	23,50	.925	36,50	1.437	54,20	2.134
5,00	197	5,30	.209	13,60	.535			36,60	1.441	54,90	2.161
		5,40	.213	13,70	.539	24,00	.945	36,70	1.445		
		5,50	.217	13,90	.547	24,30	.957			55,00	2.165
		5,60	.220			24,60	.969	37,00	1.457	55,40	2.181
		5,70	.224	14,00	.551	24,90	.980	37,30	1.469	55,70	2.193
		5,80	.228	14,30	.563			37,50	1.476		
0,10	.004			14,40	.567	25,00	.984	37,60	1.480	56,60	2.228
0,20	.008			14,50	.571	25,10	.988	37,70	1.484		
0,25	.012	6,00	.236	14,70	.579	25,40	1.000	37,90	1.492	57,40	2.260
0,35	.014	6,10	.240	14,80	.583	25,60	1.008			57,80	2.276
0,40	.016	6,40	.252	14,90	.587	25,90	1.020	38,00	1.496	57,90	2.280
0,45	.018	6,50	.256	14,98	.590			38,10	1.500		
0,50	.020	6,60	.260			26,00	1.024			58,42	2.300
0,55	.022	6,70	.264	15,00	.591	26,30	1.035	39,00	1.535		
0,60	.024	6,80	.268	15,20	.598	26,60	1.047	39,20	1.543	59,00	2.323
0,64	.025	6,90	.272	15,24	.600	26,70	1.051	39,30	1.547	59,20	2.331
0,65	.026			15,40	.606			39,90	1.571	59,80	2.354
0,70	.028	7,00	.276	15,50	.610	27,00	1.063			59,90	2.358
0,75	.030	7,10	.280	15,60	.614	27,20	1.071	40,00	1.575		
0,80	.032	7,20	.283	15,90	.626	27,40	1.079	40,30	1.587	60,00	2.362
0,85	.034	7,40	.291			27,50	1.093	40,40	1.591	60,96	2.400
0,90	.035	7,50	.295	16,00	.630	27,90	1.098	40,60	1.598	61,10	2.406
1,00	.039	7,60	.299	16,20	.638	27,94	1.100			62,00	2.441
1,20	.047	7,62	.300	16,50	.650			41,00	1.614	63,00	2.480
1,25	.049	7,70	.303	16,60	.654	28,00	1.102	41,60	1.638	63,50	2.500
1,27	.050	7,80	.307	16,80	.661	28,20	1.110			64,00	2.520
1,30	.051	7,98	.314			28,50	1.122	42,70	1.681		
1,35	.053	8,00	.315	17,00	.669	28,70	1.130			65,00	2.560
1,40	.055	8,18	.318	17,20	.677			43,18	1.700	67,00	2.638
1,45	.057	8,20	.323	17,30	.681	29,00	1.142			68,00	2.677
1,50	.059	8,30	.327	17,50	.689	29,20	1.150	44,20	1.740	69,00	2.717
1,60	.063	8,40	.331	17,60	.693	29,40	1.158	44,80	1.764		
1,70	.067	8,50	.335	17,70	.697	29,50	1.161			70,00	2.756
1,80	.071	8,60	.339	17,78	.700	29,70	1.169	45,80	1.803	71,00	2.795
1,85	.073	8,90	.350	17,80	.701	29,90	1.177			74,00	2.913
1,90	.075			17,90	.705			46,30	1.823		
2,00	.079	9,00	.354	18,00	.709	30,00	1.181	46,70	1.839	75,00	2.953
2,10	.083	9,10	.358	18,10	.713	30,20	1.189			76,20	3.000
2,20	.087	9,20	.362	18,30	.721	30,40	1.197	47,00	1.850	77,0	3.032
2,30	.091	9,30	.366	18,60	.732	30,48	1.200	47,20	1.858	78,74	3.100
2,40	.095	9,40	.370			30,50	1.201	47,30	1.862		
2,50	.098	9,50	.374	19,00	.748	30,80	1.213	47,50	1.870	80,00	3.150
2,54	.100	9,60	.378	19,20	.756	30,90	1.217	47,80	1.882	81,28	3.200
2,60	.102	9,70	.382	19,50	.768					84,00	3.307
2,70	.106	9,90	.390	19,70	.776	31,00	1.220	48,00	1.890		
2,80	.110			19,80	.780	31,20	1.228	48,10	1.894	85,00	3.346
2,84	.112	10,00	.395	19,90	.783	31,50	1.240	48,26	1.900	86,36	3.400
2,90	.114	10,16	.400			31,70	1.248	48,80	1.921	88,90	3.500
		10,26	.402	20,00	.787						
3,00	.118	10,36	.406	20,10	.791	32,00	1.260	49,10	1.933	90,00	3.543
3,10	.122	10,56	.413	20,30	.799	32,20	1.268	49,50	1.949	91,44	3.600
3,20	.126	10,66	.417	20,32	.800	32,30	1.272	49,90	1.965	94,00	3.701
3,30	.130	10,76	.421	20,50	.807	32,50	1.280			95,00	3.740
3,40	.134					32,80	1.291	50,10	1.972		
3,50	.138	11,00	.433	21,00	.827			50,30	1.980	100,00	3.937
3,60	.142	11,20	.441	21,10	.831	33,00	1.299	50,50	1.988	110,00	4.331
3,70	.146	11,40	.449	21,70	.854	33,10	1.303	50,70	1.996	120,00	4.724

SECTION 3

BNC COAXIAL CONNECTORS





BNC coaxial connectors, by far the most widely used and most popular coaxial connector in the industry. CONEC's BNC coaxial connector plug version is designed to accommodate a large variety of flexible coaxial cables. These plug connectors can be crimped or soldered to the cable. CONEC crimp tools and accessories are available to suit a multitude of coaxial-cable types. The connectors are suitable for a wide range of applications, telecommunication, central office equipment, ethernet / internet routers, OC3 and OC48 platforms, video communication, data processing systems, mobile communication systems, test and measurement equipment and medical electronics.

These BNC coaxial connectors are engineered with 25 years life expectancy and are of high quality and high reliability. The connectors are available in 50Ω and 75Ω impedance.

The 50Ω version is suitable for frequencies from DC to 4GHz and the 75Ω version from DC to 1 GHz. The BNC plug version is available in crimp or solder termination, the socket version for direct printed circuit board mounting.

CONEC's BNC coaxial connectors are industry compatible.

BNC coaxial connectors applicable standards:

IEC 169-8, CECC 22120, MIL-C-39012, VG 95200



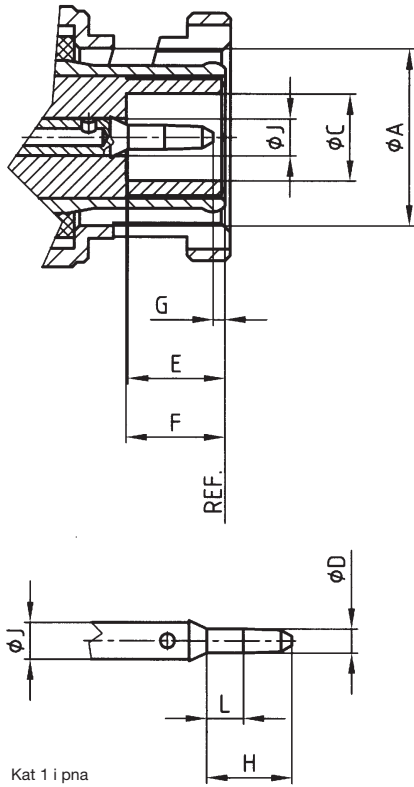
Technical Data	BNC Coaxial Connectors
Electrical data	
Characteristic impedance	50 / 75Ω
Frequency range	DC-4GHz / 50Ω - DC-1GHz / 75Ω
VSWR (straight connector)	≤ 1.28
VSWR (angled connector)	≤ 1.36
Insulation resistance	≥ 5GΩ
Contact resistance Center contact	≤ 1.5mΩ
Contact resistance Outer contact	≤ 1mΩ
Proof voltage	1000V rms / 50Hz
Working voltage	≤ 400V rms
Mechanical Data	
Center contact retention force	≥ 27N / 6.1lbs
Mating cycles	500 / 100
Environmental	
Temperature range	-65°C to +165°C
Relative humidity	MIL-STD-202 Meth. 106
Vibration	MIL-STD-202 Meth. 204/B
Corrosion	MIL-STD-202 Meth. 101/B
Shock	MIL-STD-202 Meth. 213/G
Materials	
Housing, outer conductor	Brass
Socket contacts	CuBe
Pin contacts	Brass
Insulator	PTFE
Crimp ferrules	Brass
Gasket	Silicone rubber
Plating	
Plating outer contact	Ni
Plating centre contact	Au

Specifications are subject to change without notice.

Connection dimensions

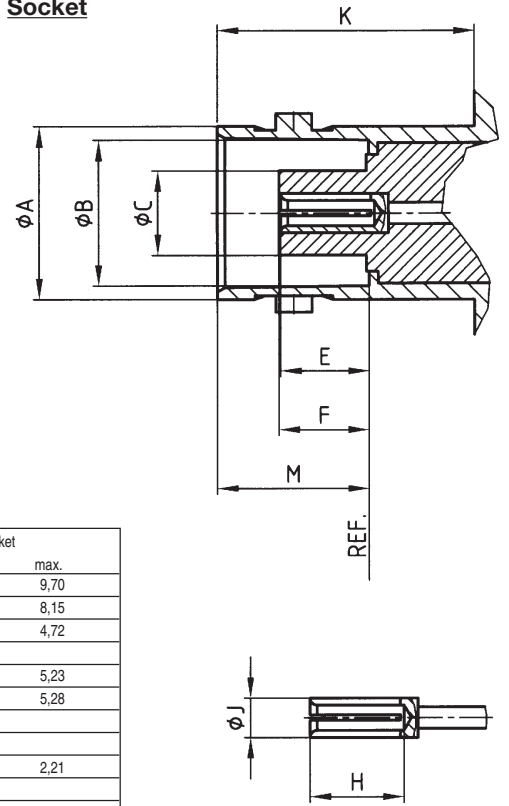
50 Ω

Plug



Kat 1 i pna

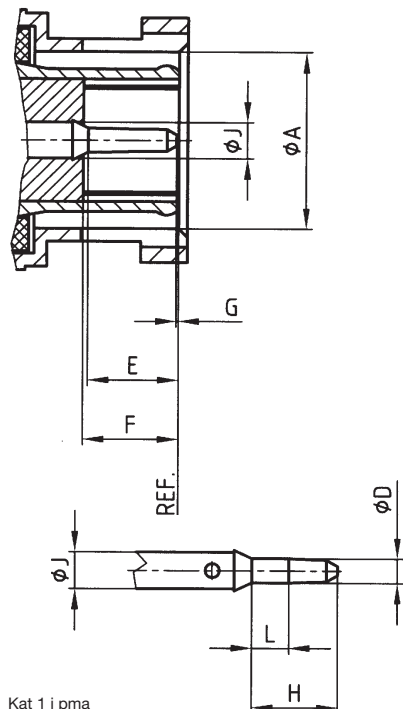
Socket



Dim.	Plug		Socket	
	min.	max.	min.	max.
A	9,78	9,91	9,60	9,70
B			8,10	8,15
C	4,83			4,72
D	1,32	1,37		
E	5,33	5,84	4,72	5,23
F	5,28	5,79	4,78	5,28
G	0,08	1,02		
H		4,92	4,95	
J	2,06	2,21	2,06	2,21
K			10,52	
L	1,98			
M			8,31	8,51

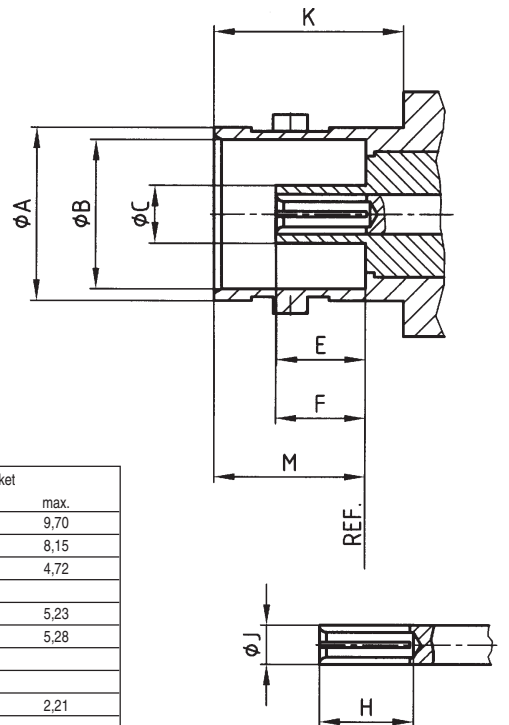
Plug

75 Ω



Kat 1 i pma

Socket

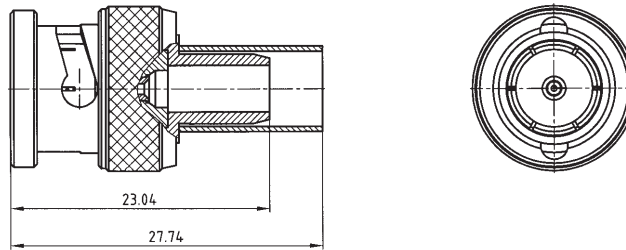


Dim.	Plug		Socket	
	min.	max.	min.	max.
A	9,78	9,91	9,60	9,70
B			8,10	8,15
C	4,83			4,72
D	1,32	1,37		
E	5,33	5,84	4,72	5,23
F	5,28	5,79	4,78	5,28
G	0,08	1,02		
H		4,92	4,95	
J	2,06	2,21	2,06	2,21
K			10,52	
L	1,98			
M			8,31	8,51

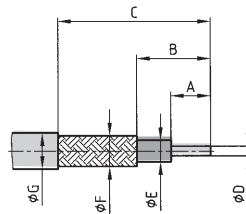


Cable plug connectors straight crimp/straight crimp version

50 Ω + 75 Ω



Cable stripping dimensions



Usable Cable	Ohm	A	B	C	Ø D max.	Ø E max.	Ø F	Ø G max.
RG 174 A/U RG 188 A/U RG 316/U	50	4,50	7,00	17,00	0,96	1,70	2,30	3,15
RG 58	50	4,50	7,50	14,50	0,96	3,0	3,60	5,20
RG 400	50	4,50	7,50	14,50	1,10	3,0	4,20	5,20
RG 179 B/U RG 187 A/U	75	4,50	7,00	17,00	0,51	1,70	2,30	3,15
RG 734	75	4,00	8,40	15,00	0,96	4,10	4,70	6,60
RG 735 A	75	3,50	6,50	13,50	0,51	2,59	3,30	4,39
RG 59	75	4,50	7,50	14,50	0,96	4,00	4,40	6,50

Kat 1 i MUA

Part numbers

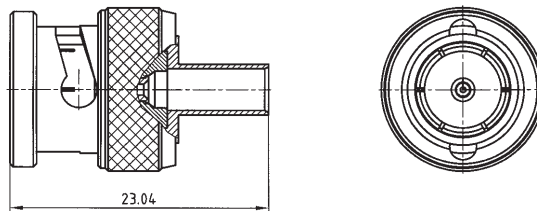
Usable cable RG	Mating cycles	50 Ω
174 A/U, 188 A/U, 316/U	500	BNC-50P JN 0202 BR
174 A/U, 188 A/U, 316/U	100	BNC-50P AN 0202 BR
58	500	BNC-50P JN 0204 BR
58	100	BNC-50P AN 0204 BR
400	500	BNC-50P JN 0208 BR
400	100	BNC-50P AN 0208 BR

Usable cable RG	Mating cycles	75 Ω
179 B/U, 187 A/U	500	BNC-75P JN 0206 BR
179 B/U, 187 A/U	100	BNC-75P AN 0206 BR
734	500	BNC-75P JN 0209 BR
734	100	BNC-75P AN 0209 BR
735 A	500	BNC-75P JN 0210 BR
735 A	100	BNC-75P AN 0210 BR
59	500	BNC-75P JN 0211 BR
59	100	BNC-75P AN 0211 BR

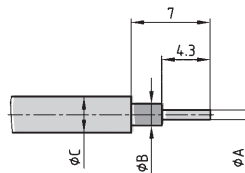


Cable plug connectors straight solder / solder version

50 Ω



Cable stripping dimensions



Usable Cable	Ohm	Ø A max.	Ø B max.	Ø C max.
RG 402	50	0,96	3,00	3,70
RG 405	50	0,51	1,68	2,40

Part numbers

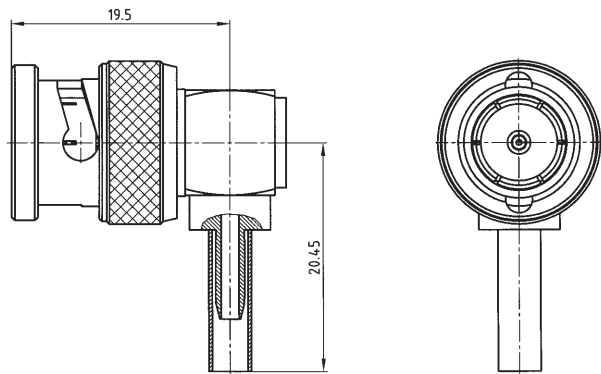
Kat 1 i MVA

Usable cable RG	Mating cycles	50 Ω
402	500	BNC-50P JN 0112 BR
402	100	BNC-50P AN 0112 BR
405	500	BNC-50P JN 0113 BR
405	100	BNC-50P AN 0113 BR

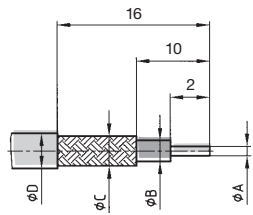


Cable plug connectors angled solder/crimp version

50 Ω



Cable stripping dimensions



Usable Cable	Ohm	Ø A max.	Ø B max.	Ø C max.	Ø D max.
RG 174, 188, 316	50	1,0	1,6	2,3	3,2

Part numbers

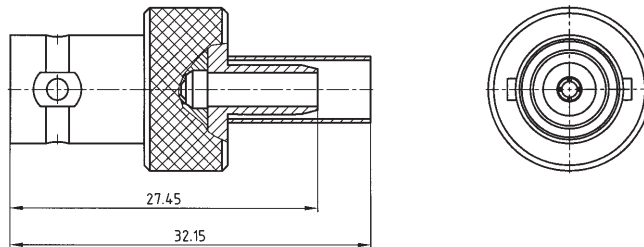
Kat 1 i MYA

Usable cable RG	Mating cycles	50 Ω
174, 188, 316	500	BNC-50P JN 0402 BR
174, 188, 316	100	BNC-50P AN 0402 BR

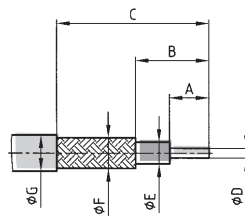


Cable jack connectors straight solder/crimp version

50 Ω



Cable stripping dimensions



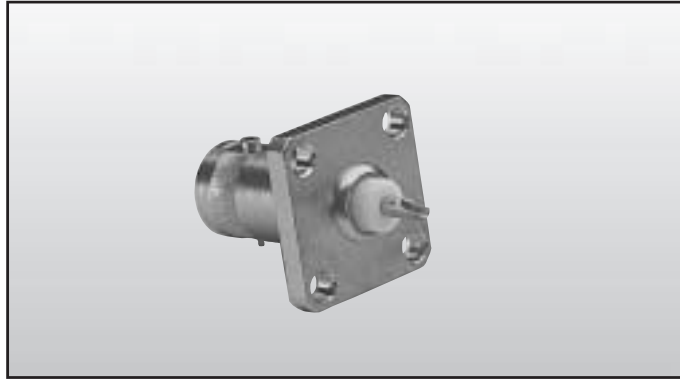
Usable Cable	Ohm	A	B	C	Ø D max.	Ø E max.	Ø F	Ø G max.
RG 58	50	4.50	7.50	14.50	0.96	3.0	3.60	5.20

Part numbers

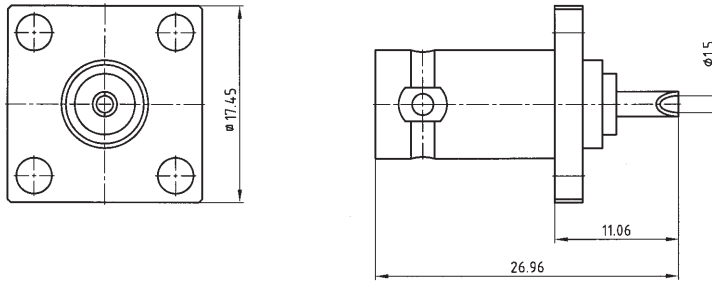
Kat 1 i MXA

Usable cable RG	Mating cycles	50 Ω
58	500	BNC-50P JN 0304 BR
58	100	BNC-50P AN 0304 BR

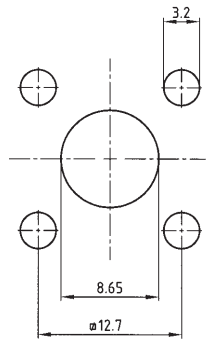
(4) Hole flange jack, straight hand solder version



50 Ω + 75 Ω



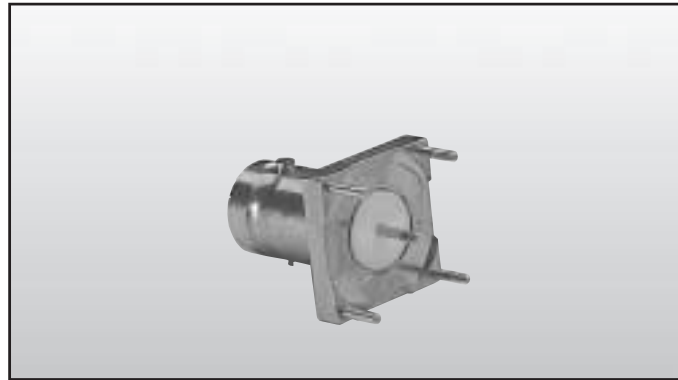
Mounting hole pattern



Part numbers

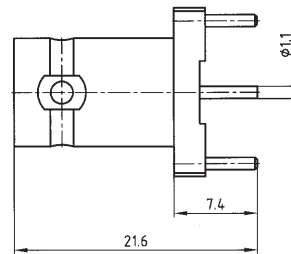
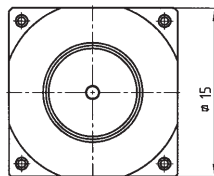
Kat 1 i NAA

Mating cycles	50 Ω	75 Ω
500	BNC-50S JN 5299 BR	BNC-75S JN 5299 BR
100	BNC-50S AN 5299 BR	BNC-75S AN 5299 BR

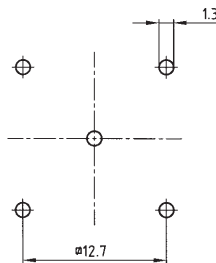


PCB - Jack, straight solder version

50 Ω + 75 Ω



Mounting hole pattern



Part numbers

Kat 1 | NAA

Mating cycles	50 Ω	75 Ω
500	BNC-50S JN 5199 BR	BNC-75S JN 5199 BR
100	BNC-50S AN 5199 BR	BNC-75S AN 5199 BR

SECTION 4

D-SUB COAXIAL CONTACTS



These coaxial contacts are designed specifically for the combination d-sub miniature connectors. The coaxial contacts are industry compatible with most combination d-sub connectors on the market. CONEC can also supply fully populated or crimp version's, insertable, removable contacts suitable for insertion by the user.






This series of connectors combined with coaxial contacts is ideal where space is limited. The coaxial contacts are available in crimp, solder, straight, right angle and for printed circuit mounting. Crimp, insertion and extraction tools are available. Several plating options are offered including long life expectancy versions.

These coaxial contacts are offered with 50Ω and 75Ω impedance. The operating frequency ranges up to 2 GHz.

Customer specific types can also be made, consult factory.

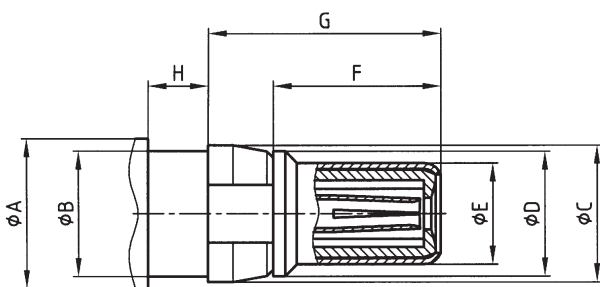
D-sub coaxial contacts are
UL-CSA-VDE listed and
approved.



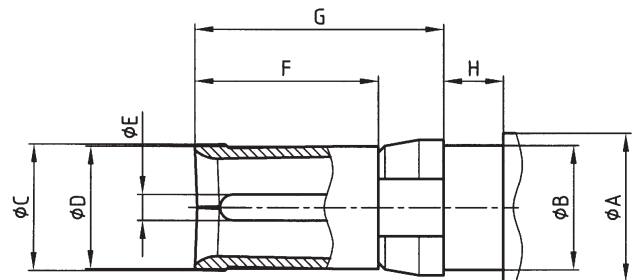
Technical Data		D-SUB Coaxial Contacts		
Contact plating		gold over nickel		
Contact material		Cu alloy		
Retaining clip		Cu alloy		
Insulators		PTFE/PBTP/PI		
Current rating (DC)		2A		
Insulation resistance		10 ⁷ MΩ		
Characteristic impedance		50 / 75Ω		
Contact resistance	inner conductor outer conductor	≤ 2,7mΩ		
VSWR-value at according MIL-C-39012	1.2GHz	≤ 1,2		
	1.5GHz	≤ 1,3		
	2.0GHz	≤ 1,5		
Dielectric voltage		750V / 50Hz		
Frequency range		0 - 2GHz		
Working voltage		250V		
Temperature range		-55°C to +135°C		
Insertion force per signal contact		≤ 7N		
Extraction force per signal contact		≤ 7N		
Mating cycles		500 / 100		
Approvals		 (40000440)	 (E 202784)	 (LR 115000-1)

Connection dimensions

Plug contact



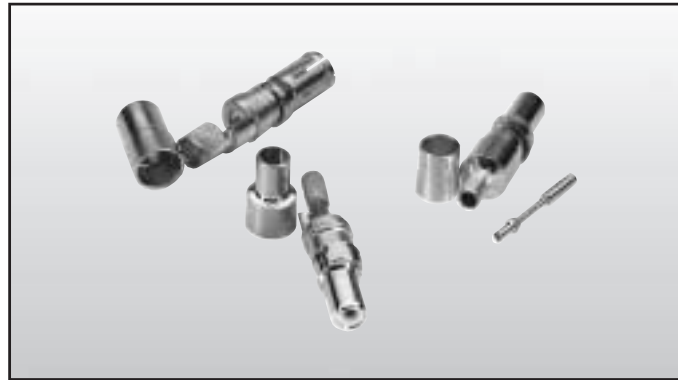
Socket contact



KAT 1 i YCA

Dim.	Plug contact		Socket contact	
	min.	max.	min.	max.
A		0,380	1,245	1,295
B	0,902	0,940	4,600	4,670
C		4,590	5,280	5,490
D	6,350			
E		2,540	2,920	
F		3,430	1,880	1,980
G		0,180		0,180
H				0,410
J	0,380	1,140	0,380	1,140
K			4,320	
L			5,540	

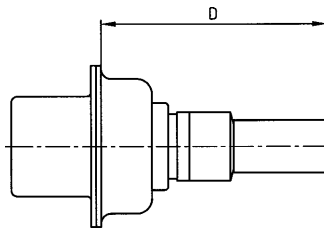
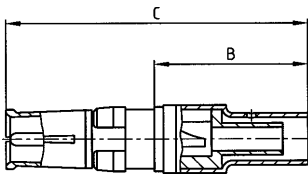
Specifications are subject to change without notice.



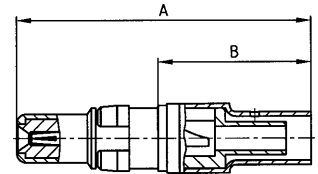
Coaxial contacts
for straight cable termination
inner conductor for solder
termination, outer conductor
for crimp or solder termination

50 Ω

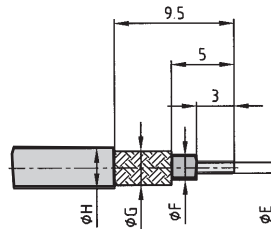
Socket contact



Plug contact



Cable stripping dimensions



Note:
Contacts supplied loose.

Usable Cable RG	A	B	C	D max.	Ø E max.	Ø F max.	Ø G max.	Ø H max.
178B/U,196 A/U, 404 A/U	22,5	11,2	23,0	17,55	0,85	1,2	1,4	2,3
174U, 188A/U, 316U	22,5	11,2	23,0	17,55	0,85	1,9	2,3	3,2
180B/U	22,5	11,2	23,0	17,55	0,85	2,8	3,1	4,5
58C/U,141A/U	26,3	14,8	26,8	20,15	1,00	3,0	3,6	5,2
316U double braided	23,5	12,2	24,0	17,55	0,85	1,9	2,7	3,2

Part numbers

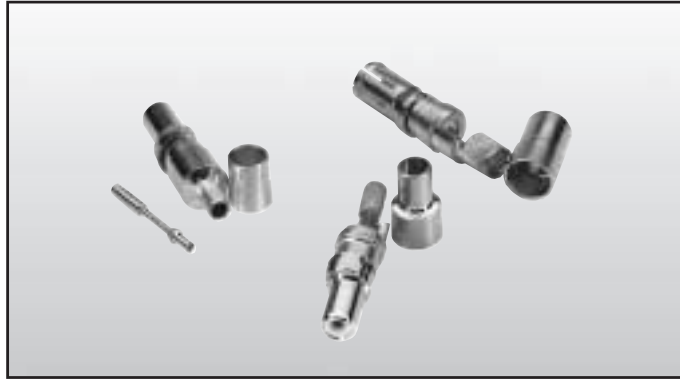
Kat 1 i 5 HA

Kat 1 i 2 iA

Usable cable RG	Part number for 500 mating cycles	
	Socket contact	Plug contact
178 B/U,196 A/U,404 A/U	132 J 20019 X	131 J 20019 X
174 U,188 A/U,316 U	132 J 20029 X	131 J 20029 X
180 B/U	132 J 20039 X	131 J 20039 X
58 C/U, 141 A/U	132 J 20049 X	131 J 20049 X
316 U double braided	132 J 20059 X	131 J 20059 X

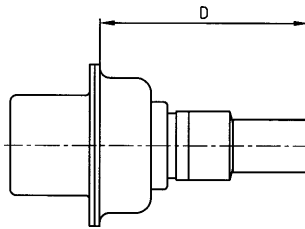
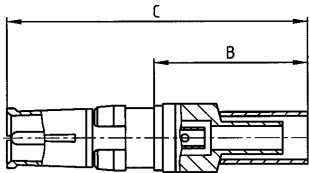
Usable cable RG	Part number for 100 mating cycles	
	Socket contact	Plug contact
178 B/U,196 A/U,404 A/U	132 A 20019 X	131 A 20019 X
174 U,188 A/U,316 U	132 A 20029 X	131 A 20029 X
180 B/U	132 A 20039 X	131 A 20039 X
58 C/U, 141 A/U	132 A 20049 X	131 A 20049 X
316 U double braided	132 A 20059 X	131 A 20059 X

Coaxial contacts for straight cable termination inner and outer conductor for crimp termination

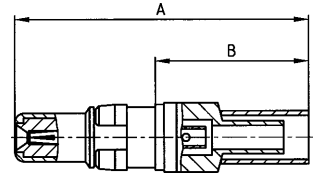


50 Ω

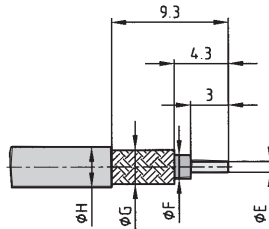
Socket contact



Plug contact



Cable stripping dimensions



Note:

Contacts supplied loose.

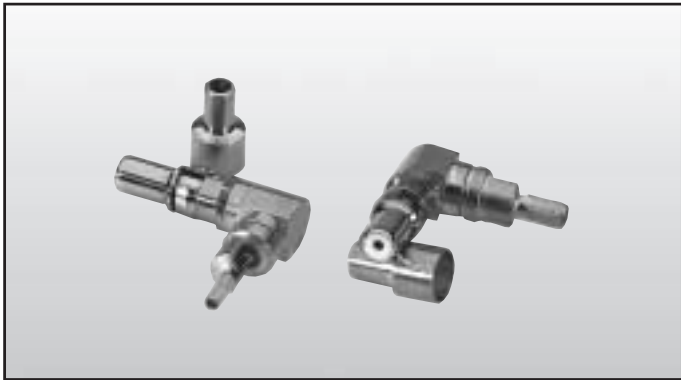
Usable Cable RG	A	B	C	D max.	Ø E max.	Ø F max.	Ø G max.	Ø H max.
174U, 188AU, 316U	22,5	11,2	23,0	16,6	0,6	1,9	2,3	3,2
316U double braided	22,5	11,2	23,0	16,6	0,6	1,9	3,0	3,8
58CU, 141AU	22,2	10,9	22,7	16,3	1,3	3,7	4,3	5,2

Part numbers

Kat 1 i 6 HA

Usable cable RG	Part number for 500 mating cycles	
	Socket contact	Plug contact
174 U, 188 A/U, 316 U	132 J 21019 X	131 J 21019 X
316 U doppelt geschirmt	132 J 21029 X	131 J 21029 X
58 C/U, 141 A/U	132 J 21039 X	131 J 21039 X

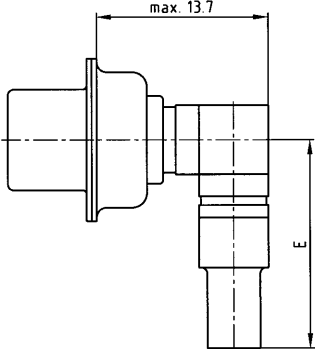
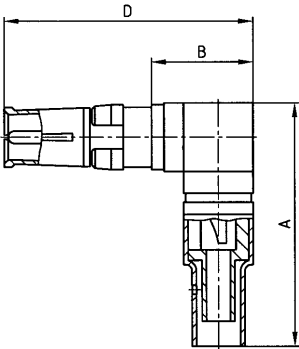
Usable cable RG	Part number for 100 mating cycles	
	Socket contact	Plug contact
174 U, 188 A/U, 316 U	132 A 21019 X	131 A 21019 X
316 U doppelt geschirmt	132 A 21029 X	131 A 21029 X
58 C/U, 141 A/U	132 A 21039 X	131 A 21039 X



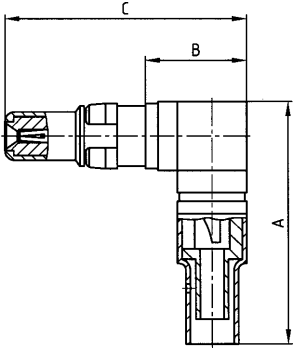
Coaxial contacts for angled cable termination
inner conductor for solder termination, outer conductor for crimp or solder termination

50 Ω

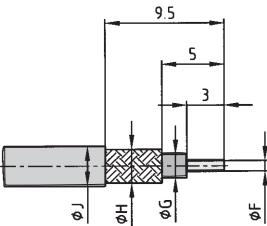
Socket contact



Plug contact



Cable stripping dimensions



Note:
Contacts supplied loose.

Usable Cable RG	A	B	C	D	E	Ø F max.	Ø G max.	Ø H max.	Ø J max.
174U, 188AU, 316U	18,5	8,2	19,3	19,8	15,7	0,85	1,9	2,3	3,2
178BU, 196AU, 404U	18,5	8,2	19,3	19,8	15,7	0,85	1,2	1,4	2,3
316U double braided	19,5	8,2	19,3	19,8	16,7	0,85	1,9	2,7	3,5

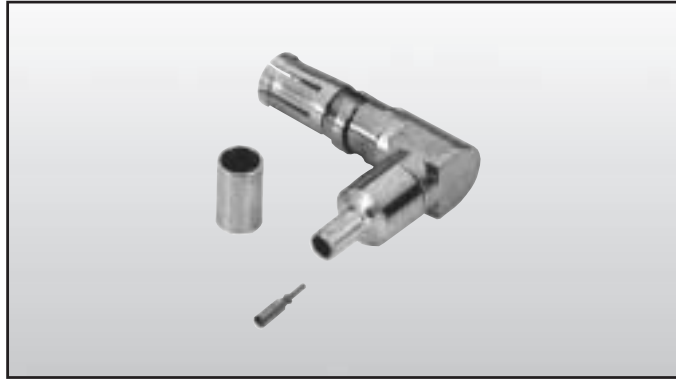
Part numbers

Kat 1 i 7 H A

Usable cable RG	Part number for 500 mating cycles	
	Socket contact	Plug contact
174 U, 188 A/U, 316 U	132 J 22019 X	131 J 22019 X
178 B/U, 196 A/U, 404 U	132 J 22029 X	131 J 22029 X
316 U doppelt geschirmt	132 J 22039 X	131 J 22039 X

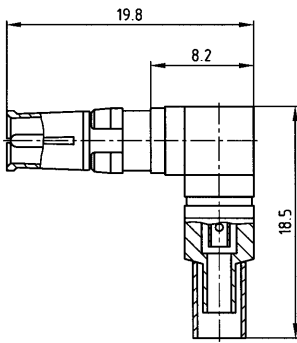
Usable cable RG	Part number for 100 mating cycles	
	Socket contact	Plug contact
174 U, 188 A/U, 316 U	132 A 22019 X	131 A 22019 X
178 B/U, 196 A/U, 404 U	132 A 22029 X	131 A 22029 X
316 U doppelt geschirmt	132 A 22039 X	131 A 22039 X

Coaxial contacts
for angled cable termination
inner- and outer conductor
for crimp termination

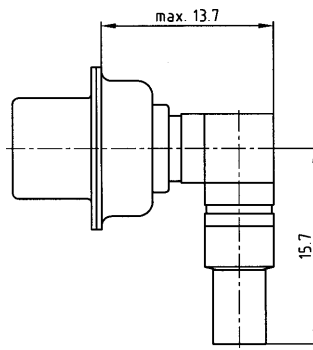
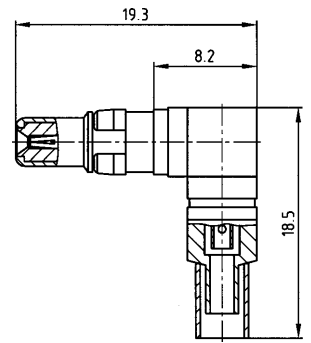


50 Ω

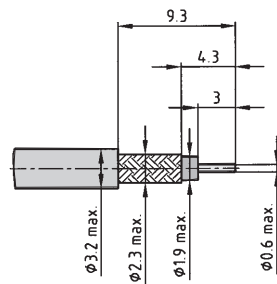
Socket contact



Plug contact



Cable stripping dimensions



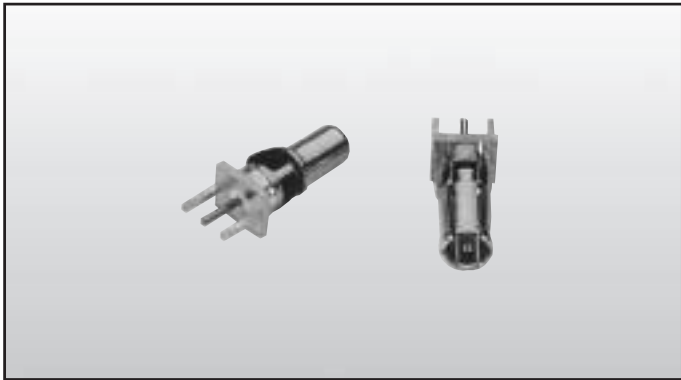
Note:
Contacts supplied loose.

Part numbers

Kat 1 i 8 HA

Usable cable RG	Part number for 500 mating cycles	
	Socket contact	Plug contact
174 U, 188 A/U, 316 U	132 J 23019 X	131 J 23019 X

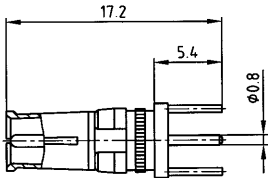
verwendbares Kabel RG	Part number for 100 mating cycles	
	Socket contact	Plug contact
174 U, 188 A/U, 316 U	132 A 23019 X	131 A 23019 X



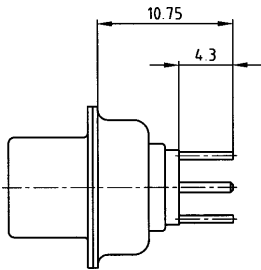
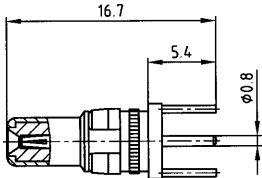
Coaxial contacts for straight PCB termination with 3 solder pins

50 Ω

Socket contact



Plug contact



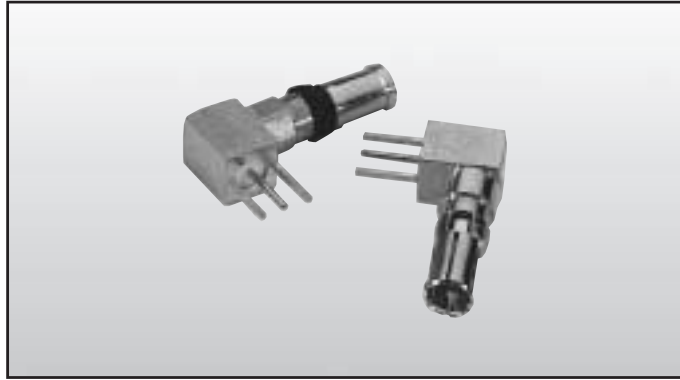
Kat 1 i 9 HA

Part numbers

Part number for 500 mating cycles	
Socket contact	Plug contact
132 J 24019 X	131 J 24019 X

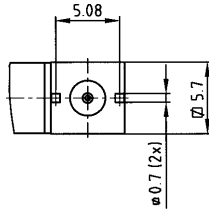
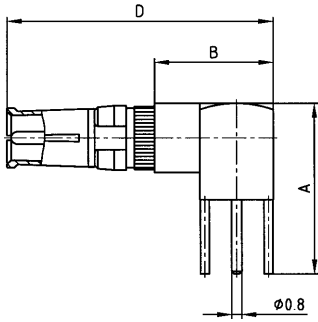
Part number for 100 mating cycles	
Socket contact	Plug contact
132 A 24019 X	131 A 24019 X

Coaxial contacts
for angled
PCB termination
with 3 solder pins

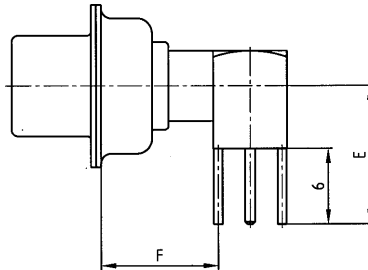
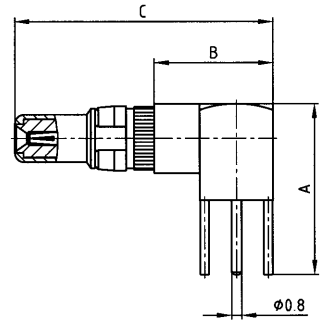


50 Ω

Socket contact



Plug contact



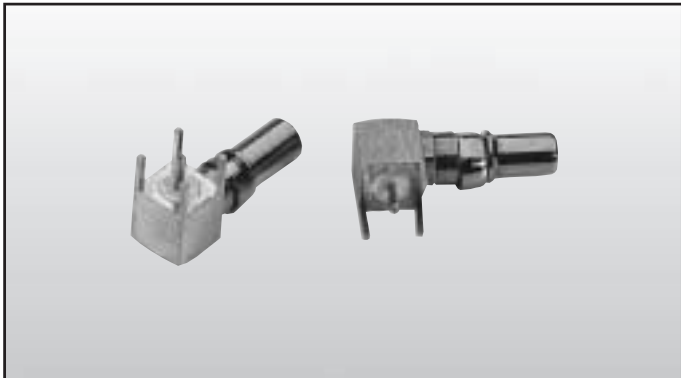
Contacts used in shell size	A	B	C	D	E	F
1-4	13,8	9,3	20,7	21,2	11,0	9,3
5	16,8	11,8	23,2	23,7	14,0	11,8

Kat 1 i 0 i A

Part numbers

Contacts used in shell size	Part number for 500 mating cycles	
	Socket contact	Plug contact
1-4	132 J 25019 X	131 J 25019 X
5	132 J 25029 X	131 J 25029 X

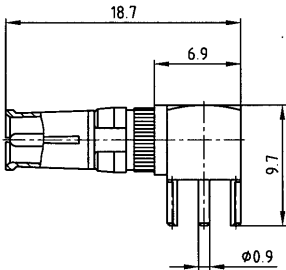
Contacts used in shell size	Part number for 100 mating cycles	
	Socket contact	Plug contact
1-4	132 A 25019 X	131 A 25019 X
5	132 A 25029 X	131 A 25029 X



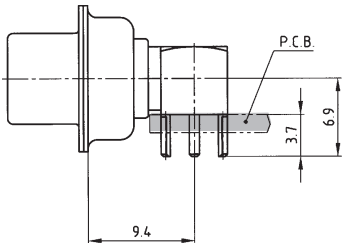
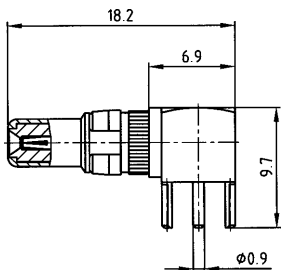
Coaxial contacts for angled PCB termination with 5 solder pins

50 Ω

Socket contact



Plug contact



Note:
For mounting connector on edge of PCB.

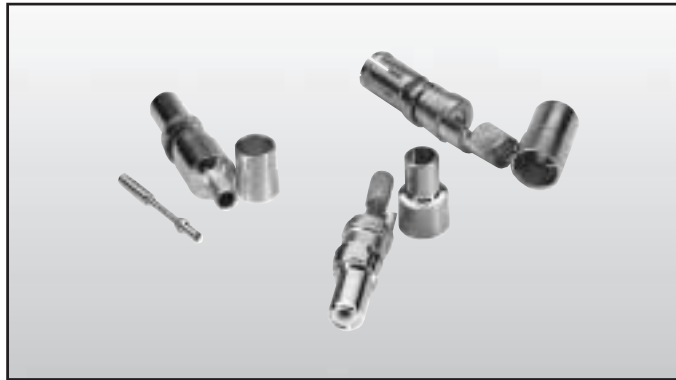
Kat 1 i 1 IA

Part numbers

Part number for 500 mating cycles	
Socket contact	Plug contact
132 J 25519 X	131 J 25519 X

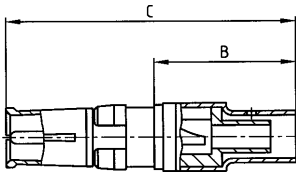
Part number for 100 mating cycles	
Socket contact	Plug contact
132 A 25519 X	131 A 25519 X

Coaxial contacts
for straight cable termination
inner conductor for solder
termination, outer conductor
for crimp or solder termination

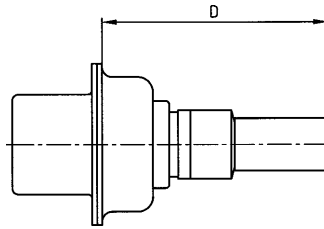
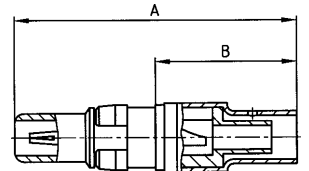


75 Ω

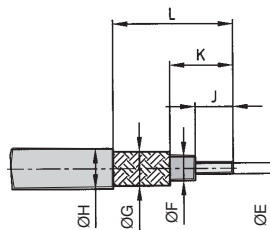
Socket contact



Plug contact



Cable stripping dimensions



Note:

Contacts supplied loose.

Usable Cable RG	A	B	C	D	ØE max.	ØF max.	ØG max.	ØH max.	J	K	L
179B/U, 187A/U	18,55	7,3	19,05	12,8	0,5	1,9	2,3	3,2	2,0	3,1	6,0
179B/U, 187A/U	22,5	11,2	23,0	16,7	0,5	1,9	2,3	3,2	3,0	5,0	9,5

Part numbers

Kat 1 i 2 iA

Usable cable RG	Part number for 500 mating cycles	
	Socket contact	Plug contact
179 B/U, 187 A/U (B=7,3)	132 J 30019 X	131 J 30019 X
179 B/U, 187 A/U (B=11,2)	132 J 30029 X	131 J 30029 X

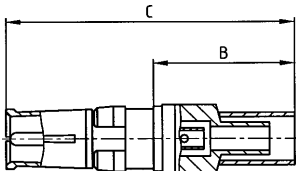
Usable cable RG	Part number for 100 mating cycles	
	Socket contact	Plug contact
179 B/U, 187 A/U (B=7,3)	132 A 30019 X	131 A 30019 X
179 B/U, 187 A/U (B=11,2)	132 A 30029 X	131 A 30029 X



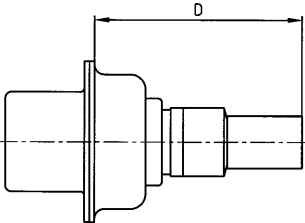
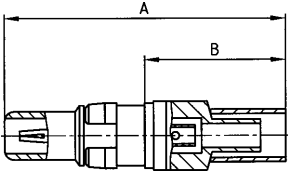
Coaxial contacts for straight cable termination inner and outer conductor for crimp termination

75 Ω

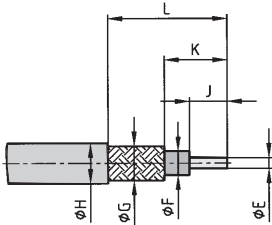
Socket contact



Plug contact



Cable stripping dimensions



Note:
Contacts supplied loose.

Usable Cable RG	A	B	C	D	ØE max.	ØF max.	ØG max.	ØH max.	J	K	L
179B/U, 187A/U	22,45	11,2	22,95	16,7	0,6	1,9	2,3	3,2	3,0	4,3	9,3
180B/U	21,65	10,4	22,15	15,9	0,6	2,8	3,2	4,5	3,0	4,3	8,8

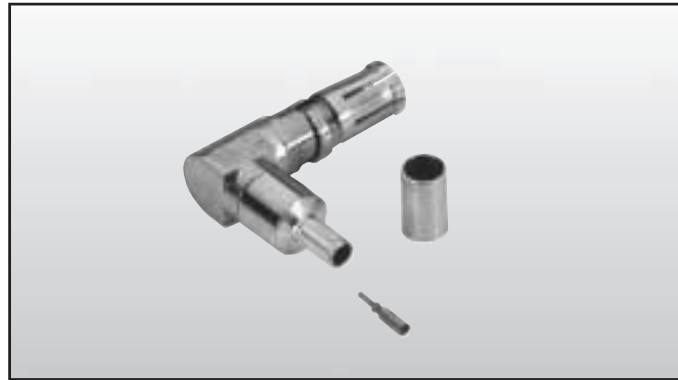
Part numbers

Kat 1 i 3 iA

Usable Cable RG	Part number for 500 mating cycles	
	Socket contact	Plug contact
179 B/U, 187 A/U	132 J 31019 X	131 J 31019 X
180 B/U	132 J 31029 X	131 J 31029 X

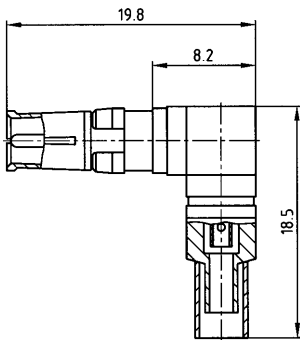
Usable Cable RG	Part number for 100 mating cycles	
	Socket contact	Plug contact
179 B/U, 187 A/U	132 A 31019 X	131 A 31019 X
180 B/U	132 A 31029 X	131 A 31029 X

Coaxial contacts
for angled cable termination
inner- and outer conductor
for crimp termination

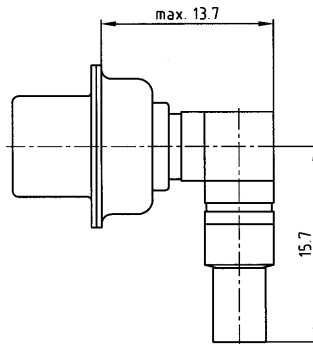
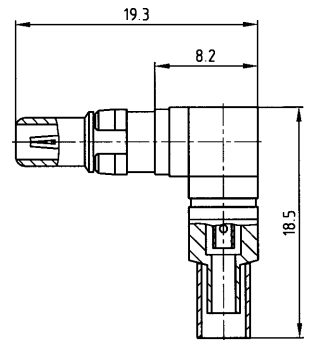


75 Ω

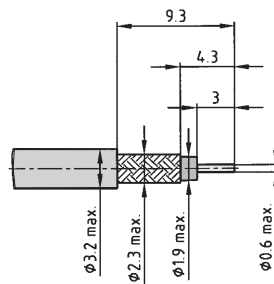
Socket contact



Plug contact



Cable stripping dimensions



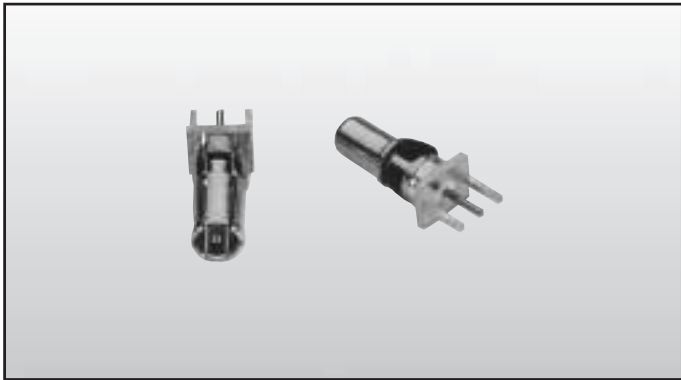
Note:
Contacts supplied loose.

Part numbers

Kat 1 i 4 i A

Usable Cable RG	Part number for 500 mating cycles	
	Socket contact	Plug contact
179 B/U, 187 A/U	132 J 33019 X	131 J 33019 X

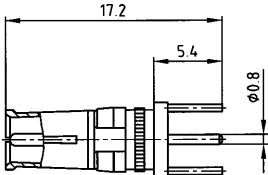
Usable Cable RG	Part number for 100 mating cycles	
	Socket contact	Plug contact
179 B/U, 187 A/U	132 A 33019 X	131 A 33019 X



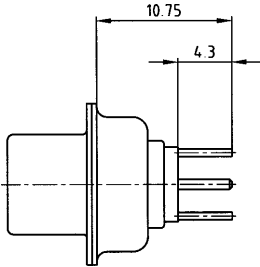
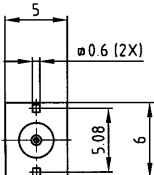
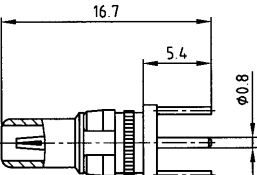
Coaxial contacts for straight PCB termination with 3 solder pins

75 Ω

Socket contact



Plug contact



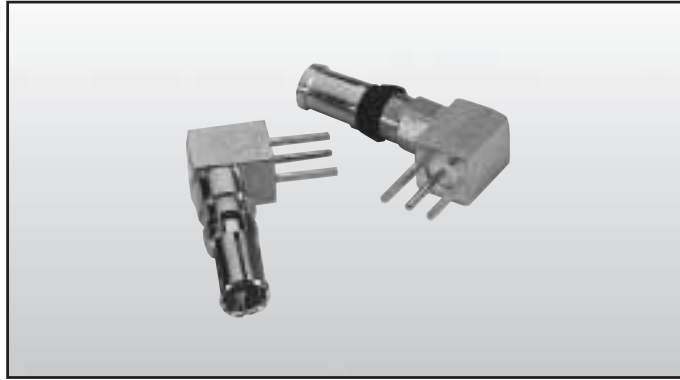
Kat 1 i 5 IA

Part numbers

Part number for 500 mating cycles	
Socket contact	Plug contact
132 J 34019 X	131 J 34019 X

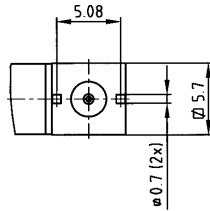
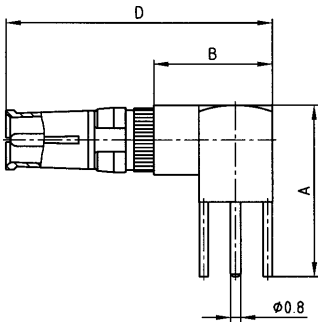
Part number for 100 mating cycles	
Socket contact	Plug contact
132 A 34019 X	131 A 34019 X

Coaxial contacts
for angled
PCB termination
with 3 solder pins

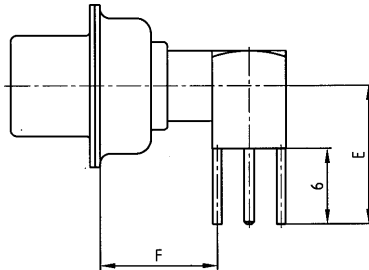
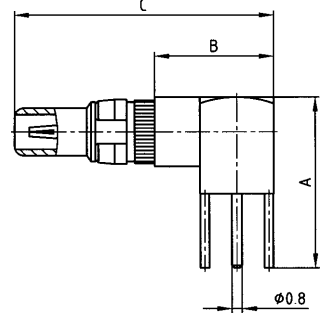


75 Ω

Socket contact



Plug contact



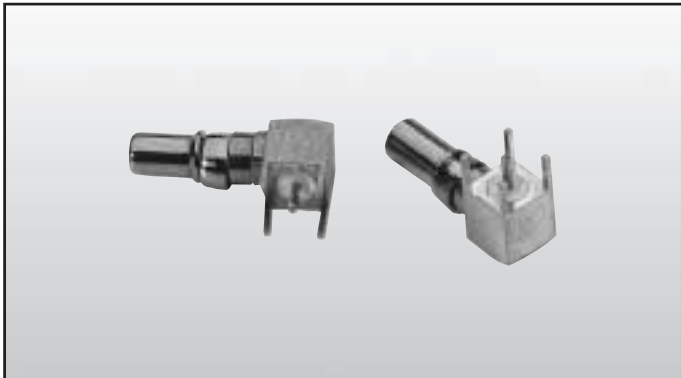
Contacts used in shell size	A	B	C	D	E	F
1-4	13,8	9,3	20,7	21,2	11,0	9,3
5	16,8	11,8	23,2	23,7	14,0	11,8

Kat 1 i 6 iB

Part numbers

Contacts used in shell size	Part number for 500 mating cycles	
	Socket contact	Plug contact
1-4	132 J 35019 X	131 J 35019 X
5	132 J 35029 X	131 J 35029 X

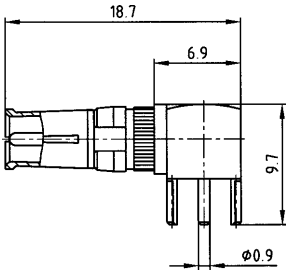
Contacts used in shell size	Part number for 100 mating cycles	
	Socket contact	Plug contact
1-4	132 A 35019 X	131 A 35019 X
5	132 A 35029 X	131 A 35029 X



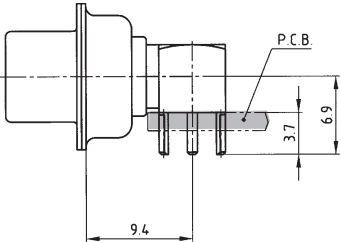
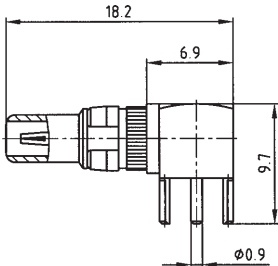
Coaxial contacts for angled PCB termination with 5 solder pins

75 Ω

Socket contact



Plug contact



Note:
For mounting connector on edge of PCB.

Kat 1 i 7 IA

Part numbers

Part number for 500 mating cycles	
Socket contact	Plug contact
132 J 35519 X	131 J 35519 X

Part number for 100 mating cycles	
Socket contact	Plug contact
132 A 35519 X	131 A 35519 X



SECTION 5

DIN COAXIAL CONTACTS

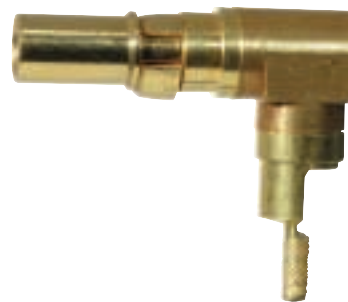


DIN coaxial contacts have been designed to be fully compatible with the DIN EN60603 (DIN41612) mixed layout connector family. This mixed layout connector series allows the insertion of coaxial contacts along with the preloaded signal contacts.



The series is ideal for applications where printed circuit board space is limited. The coaxial contact can be inserted by the user allowing for selective loaded positions, or the connectors can be preloaded by CONEC. Several configurations such as solder, crimp, straight, right angle and printed circuit board mount types are offered. The coaxial contacts are available with a variety of plating options, customer specific types can be requested, consult factory. These coaxial contacts come in 50Ω and 75Ω impedance and are suitable to operate to 2GHz frequency.

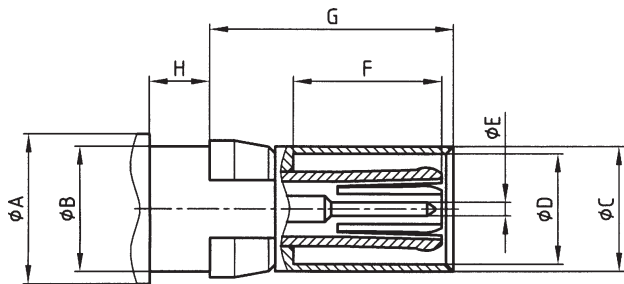
Applicable standard: DIN 41626.



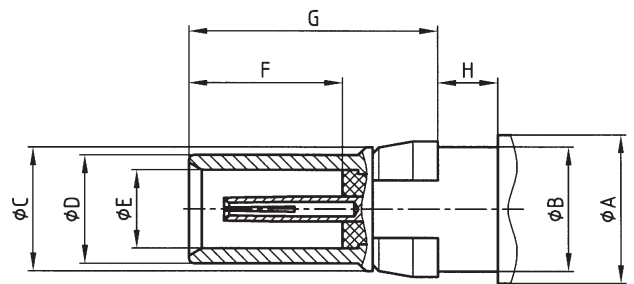
Technical Data		DIN Coaxial Contacts
Insulator		PTFE/PBTP/PI
Contact plating		Gold over nickel
Contact material		Cu alloy
Retaining clip		Cu alloy
Current rating (DC)		2A
Insulation resistance		10 ⁷ M Ω
Characteristic impedance		50 / 75 Ω
Contact resistance	inner conductor outer conductor	≤ 2,7mΩ ≤ 2,7mΩ
VSWR-value at according MIL-C-39012	1.2GHz	≤ 1,2
	1.5GHz	≤ 1,3
	2.0GHz	≤ 1,5
Dielectric voltage		750V / 50Hz
Frequency range		0-2GHz
Working voltage		250V
Temperature range		-55°C to +135°C
Insertion force per signal contact		≤ 7N
Extraction force per signal contact		≤ 7N
Mating cycles		500 / 100

Connection dimensions

Plug contact



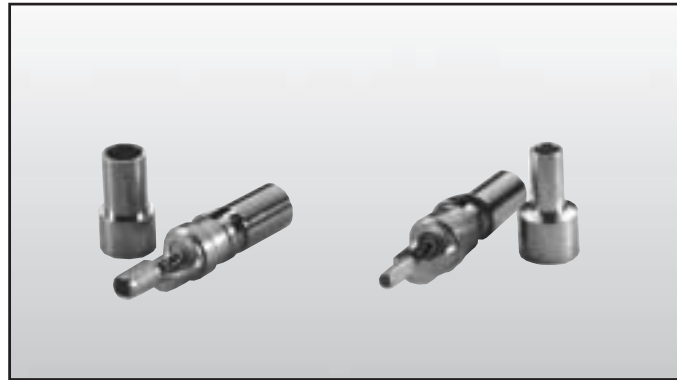
Socket contact



Dim.	Plug contact		Socket contact	
	min.	max.	min.	max.
A		6,000		6,000
B	4,760	4,790	4,760	4,790
C	4,660	4,720	4,720	4,750
D	4,200	4,280	4,030	4,150
E	0,480	0,520	3,000	3,060
F	5,400	5,700	5,800	5,900
G	9,250	9,350	9,500	9,600
H	2,200	2,400	2,200	2,400

KAT 1 i YBA

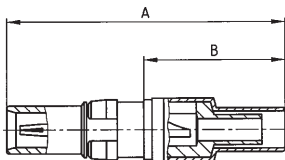
Specifications are subject to change without notice.



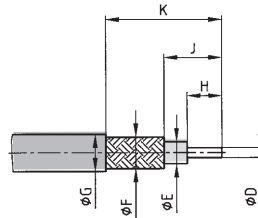
Coaxial contacts
for straight cable termination
inner conductor for solder
termination, outer conductor
for crimp or solder termination

50 Ω

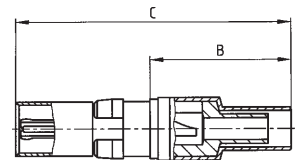
Socket contact



Cable stripping dimensions



Plug contact



Note:

Socket contacts use with Plug connectors.
Plug contacts use with Socket connectors.

Usable Cable RG	A	B	C	Ø D max.	Ø E max.	Ø F max.	Ø G max.	H	J	K
178B/U, 196 A/U, 404 U ⁺	24,2	12,3	23,9	0,90	1,2	1,4	2,3	2,5	5,0	10,0
174U, 188A/U, 316U	24,2	12,3	23,9	0,80	1,9	2,3	3,2	2,5	5,0	10,0
316B/U*	24,2	12,3	23,9	0,90	1,9	2,7	3,5	2,5	5,0	10,0
58C/U, 141A/U	25,4	13,5	25,2	0,90	3,0	4,1	5,2	3,0	5,0	9,5

* = double braided
+ = low noise

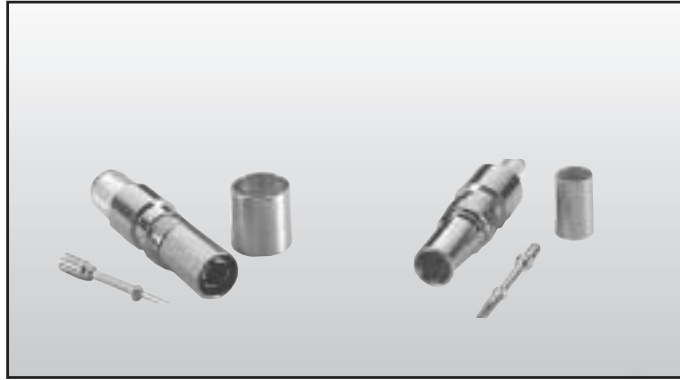
Part numbers

Kat 1 i EHA

Usable Cable RG	Part number for 500 mating cycles	
	Socket contact	Plug contact
178 B/U, 196 A/U, 404 U ⁺	124 C 20059 X	123 C 20059 X
174 U, 188 A/U, 316 U	124 C 20069 X	123 C 20069 X
316U *	124 C 20079 X	123 C 20079 X
58 C/U, 141 A/U	124 C 20089 X	123 C 20089 X

Usable Cable RG	Part number for 100 mating cycles	
	Socket contact	Plug contact
178 B/U, 196 A/U, 404 U ⁺	124 A 20059 X	123 A 20059 X
174 U, 188 A/U, 316 U	124 A 20069 X	123 A 20069 X
316U *	124 A 20079 X	123 A 20079 X
58 C/U, 141 A/U	124 A 20089 X	123 A 20089 X

Coaxial contacts for straight cable termination inner and outer conductor for crimp termination

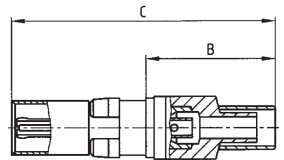
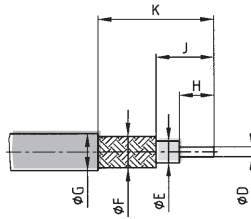
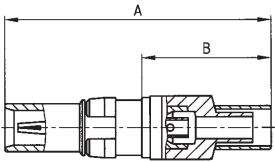


50 Ω

Socket contact

Cable stripping dimensions

Plug contact



Note:

Socket contacts use with Plug connectors.
Plug contacts use with Socket connectors.

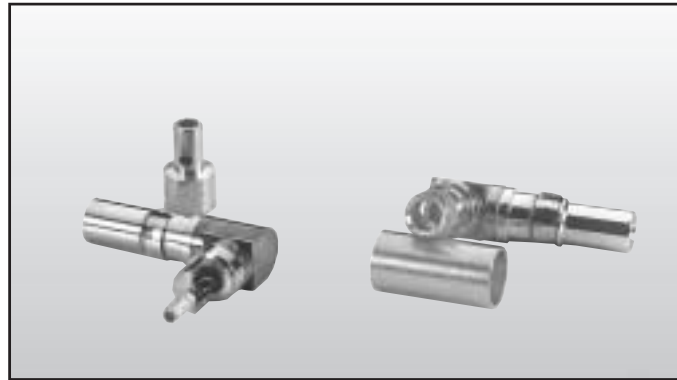
Usable Cable RG	A	B	C	Ø D max.	Ø E max.	Ø F max.	Ø G max.	H	J	K
174U, 188 A/U, 316 U	23,1	11,2	22,9	0,60	1,9	2,3	3,2	3,0	4,3	9,3
58C/U, 141A/U	22,8	10,9	22,6	1,30	3,7	4,4	5,2	3,8	5,3	9,0
316U*	23,1	11,2	22,9	0,60	1,9	3,0	3,8	3,0	4,3	9,3

* = double braided

Part numbers

Kat 1 i ELA

Usable Cable RG	Part number for 500 mating cycles		Part number for 100 mating cycles	
	Socket contact	Plug contact	Socket contact	Plug contact
174 U, 188 A/U, 316 U	124 C 21049 X	123 C 21049 X	124 A 21049 X	123 A 21049 X
58C/U, 141A/U	124 C 21059 X	123 C 21059 X	124 A 21059 X	123 A 21059 X
316U*	124 C 21069 X	123 C 21069 X	124 A 21069 X	123 A 21069 X



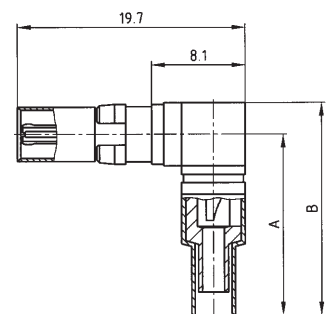
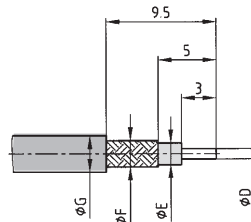
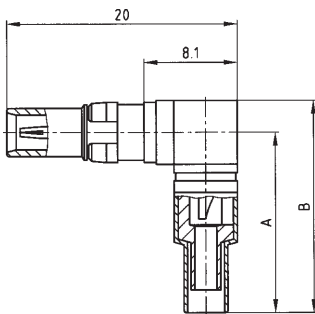
Coaxial contacts for angled cable termination inner conductor for solder termination, outer conductor for crimp or solder termination

50 Ω

Socket contact

Cable stripping dimensions

Plug contact



Note:

Socket contacts use with Plug connectors.
Plug contacts use with Socket connectors.

Usable Cable RG	A	B	ϕD max.	ϕE max.	ϕF max.	ϕG max.
178B/U, 196 A/U, 404 U ⁺	15,7	18,5	0,90	1,2	1,4	2,3
174 U, 188A/U, 316U*	15,7	18,5	0,90	1,9	2,3	3,2
122 U	15,7	18,5	0,90	2,8	3,1	4,5
316B/U	16,8	19,5	0,90	1,9	2,7	3,5
58C/U, 141A/U	18,0	20,8	0,90	3,0	3,8	5,2

* = double braided
+ = low noise

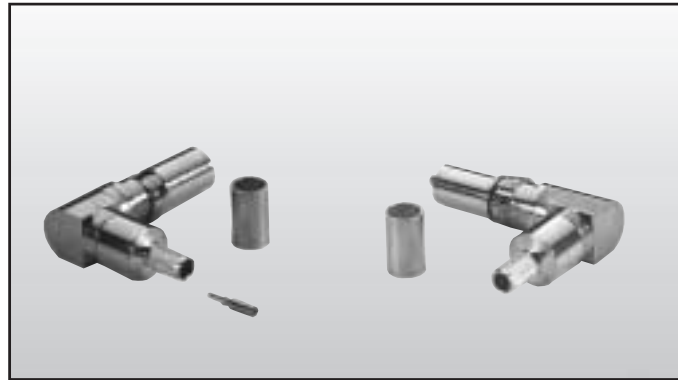
Part numbers

Kat 1 i EJA

Usable Cable RG	Part number for 500 mating cycles	
	Socket contact	Plug contact
178 B/U, 196 A/U, 404 U ⁺	124 C 22069 X	123 C 22069 X
174 U, 188 A/U, 316 U	124 C 22079 X	123 C 22079 X
316U*	124 C 22089 X	123 C 22089 X
122 U	124 C 22099 X	123 C 22099 X
58 C/U, 141 A/U	124 C 22109 X	123 C 22109 X

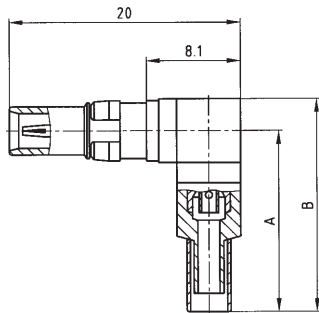
Usable Cable RG	Part number for 100 mating cycles	
	Socket contact	Plug contact
178 B/U, 196 A/U, 404 U ⁺	124 A 22069 X	123 A 22069 X
174 U, 188 A/U, 316 U	124 A 22079 X	123 A 22079 X
316U*	124 A 22089 X	123 A 22089 X
122 U	124 A 22099 X	123 A 22099 X
58 C/U, 141 A/U	124 A 22109 X	123 A 22109 X

Coaxial contacts
for angled cable termination
inner conductor and outer
conductor
for crimp termination

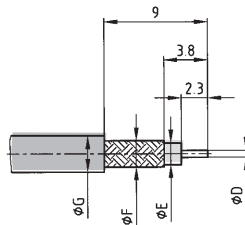


50 Ω

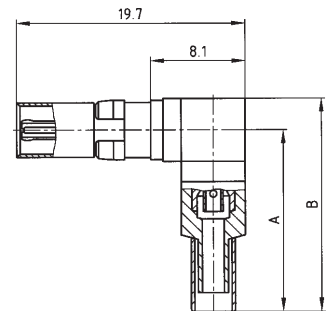
Socket contact



Cable stripping dimensions



Plug contact



Note:

Socket contacts use with Plug connectors.
Plug contacts use with Socket connectors.

Usable Cable RG	A	B	Ø D max.	Ø E max.	Ø F max.	Ø G max.
174B/U, 188A/U, 316U	15,7	18,5	0,60	1,9	2,3	2,3
316U*	15,7	18,5	0,60	1,9	3,0	3,8
58CU, 141AU	15,4	18,2	1,00	3,7	4,4	5,2

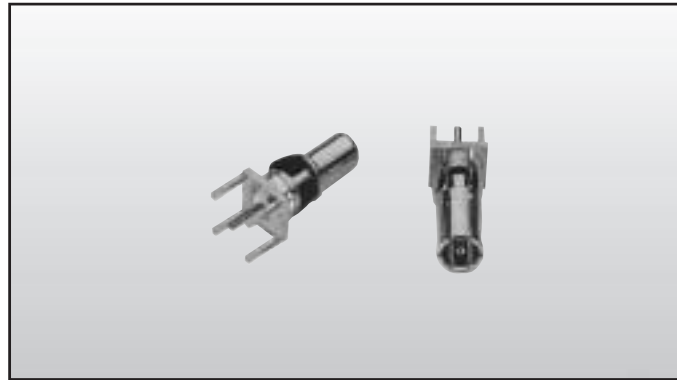
* = double braided

Part numbers

Kat 1 i EMA

Usable Cable RG	Part number for 500 mating cycles	
	Socket contact	Plug contact
174 B/U, 188A/U, 316	124 C 23049 X	123 C 23049 X
316U*	124 C 23059 X	123 C 23059 X
58C/U, 141A/U	124 C 23069 X	123 C 23069 X

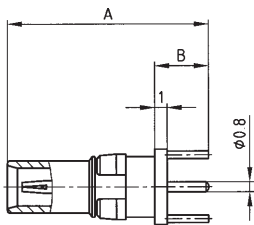
Usable Cable RG	Part number for 100 mating cycles	
	Socket contact	Plug contact
174 B/U, 188A/U, 316	124 A 23049 X	123 A 23049 X
316U*	124 A 23059 X	123 A 23059 X
58C/U, 141A/U	124 A 23069 X	123 A 23069 X



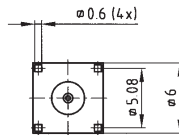
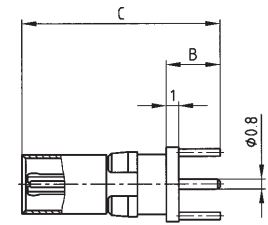
Coaxial contacts for straight PCB termination with 5 solder pins

50 Ω

Socket contact



Plug contact



Contact dimensions

A	B	C
16,2	4,3	16,0
17,7	5,8	17,5

Note:

Socket contacts use with Plug connectors.
Plug contacts use with Socket connectors.

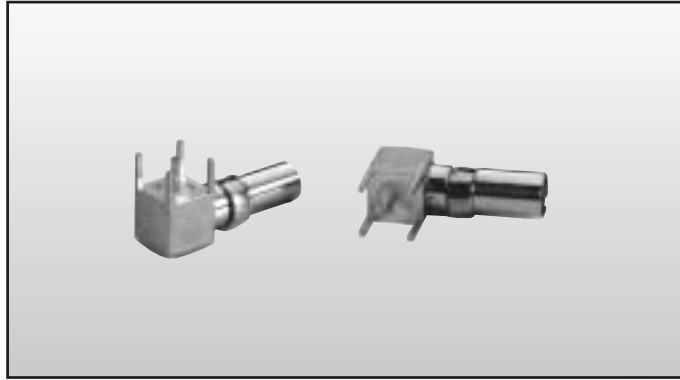
Part numbers

Kat 1 i EPA

Contact dim.			Part number for 500 mating cycles	
A	B	C	Socket contact	Plug contact
16,2	4,3	16,0	124 C 24039 X	123 C 24039 X
17,7	5,8	17,5	124 C 24049 X	123 C 24049 X

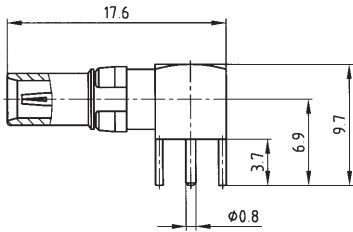
Contact dim.			Part number for 100 mating cycles	
A	B	C	Socket contact	Plug contact
16,2	4,3	16,0	124 A 24039 X	123 A 24039 X
17,7	5,8	17,5	124 A 24049 X	123 A 24049 X

Coaxial contacts
for angled
PCB termination
with 5 solder pins

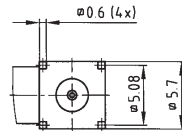
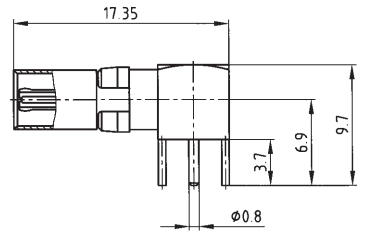


50 Ω

Socket contact



Plug contact



Note:

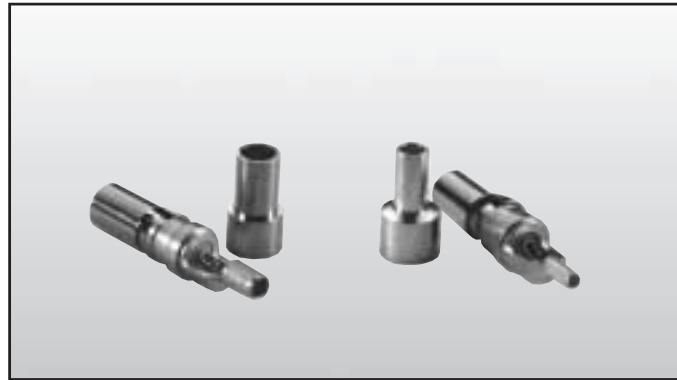
Socket contacts use with Plug connectors.
Plug contacts use with Socket connectors.

Part numbers

Kat 1 i ERA

Part number for 500 mating cycles	
Socket contact	Plug contact
124 C 25029 X	123 C 25029 X

Part number for 100 mating cycles	
Socket contact	Plug contact
124 A 25029 X	123 A 25029 X



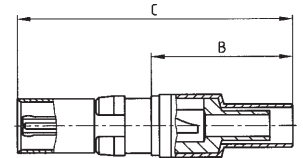
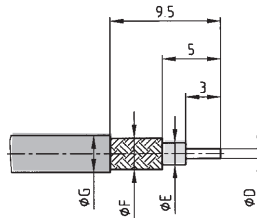
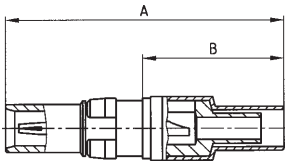
Coaxial contacts for straight cable termination
inner conductor for solder termination, outer conductor for crimp or solder termination

75 Ω

Socket contact

Cable stripping dimensions

Plug contact



Note:

Socket contacts use with Plug connectors.
Plug contacts use with Socket connectors.

Usable Cable RG	A	B	C	Ø D max.	Ø E max.	Ø F max.	Ø G max.
179B/U, 187A/U	24,2	12,3	23,9	0,50	1,9	2,3	3,2
180B/U	23,1	11,2	22,8	0,90	2,8	3,1	4,5

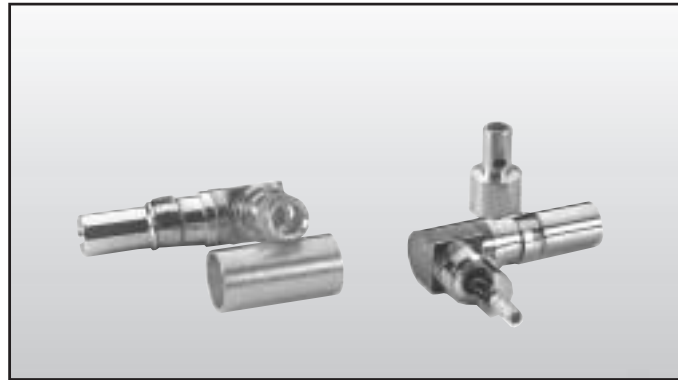
Kat 1 i EIA

Part numbers

Usable Cable RG	Part number for 500 mating cycles	
	Socket contact	Plug contact
179 B/U, 187 A/U	124 C 30039 X	123 C 30039 X
180 B/U	124 C 30049 X	123 C 30049 X

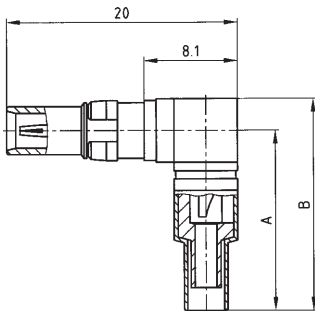
Usable Cable RG	Part number for 100 mating cycles	
	Socket contact	Plug contact
179 B/U, 187 A/U	124 A 30039 X	123 A 30039 X
180 B/U	124 A 30049 X	123 A 30049 X

Coaxial contacts
for angled cable termination
inner conductor for solder
termination, outer conductor
for crimp or solder termination

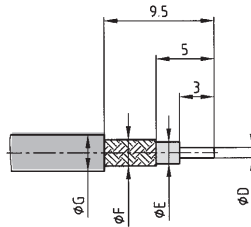


75 Ω

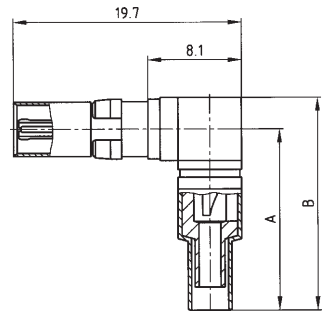
Socket contact



Cable stripping dimensions



Plug contact



Note:

Socket contacts use with Plug connectors.
Plug contacts use with Socket connectors.

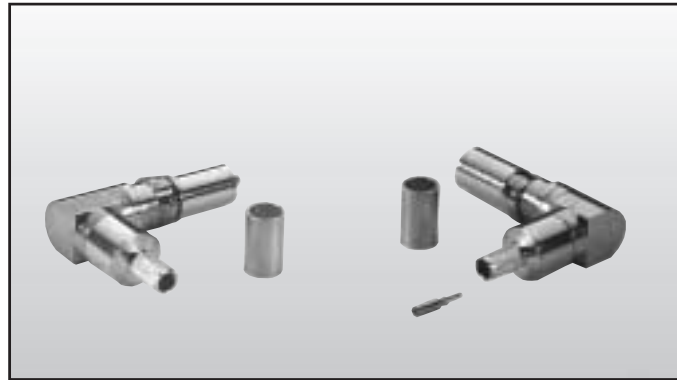
Usable Cable RG	A	B	Ø D max.	Ø E max.	Ø F max.	Ø G max.
196 A/U	15,7	18,5	0,90	1,2	1,4	2,3
179B/U, 187A/U	15,7	18,5	0,90	1,9	2,3	3,2
180B/U	15,7	18,5	0,90	2,8	3,1	4,5

Part numbers

Kat 1 i EKA

Usable Cable RG	Part number for 500 mating cycles	
	Socket contact	Plug contact
196 A/U	124 C 32049 X	123 C 32049 X
179 B/U, 187 A/U	124 C 32059 X	123 C 32059 X
180 B/U	124 C 32069 X	123 C 32069 X

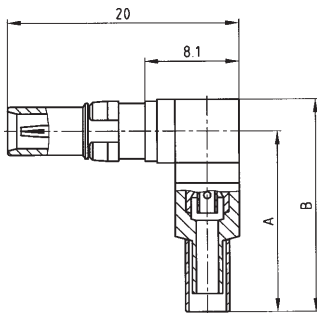
Usable Cable RG	Part number for 100 mating cycles	
	Socket contact	Plug contact
196 A/U	124 A 32049 X	123 A 32049 X
179 B/U, 187 A/U	124 A 32059 X	123 A 32059 X
180 B/U	124 A 32069 X	123 A 32069 X



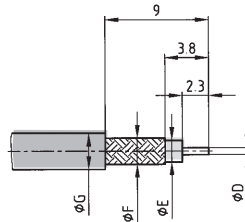
Coaxial contacts for angled cable termination inner conductor and outer conductor for crimp termination

75 Ω

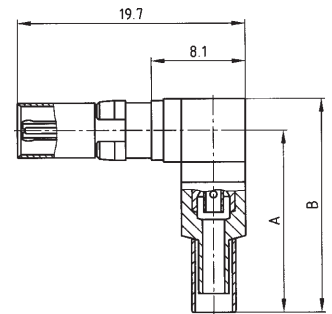
Socket contact



Cable stripping dimensions



Plug contact



Note:
Socket contacts use with Plug connectors.
Plug contacts use with Socket connectors.

Usable Cable RG	A	B	Ø D max.	Ø E max.	Ø F max.	Ø G max.
179B/U, 187A/U	15,7	18,5	0,60	1,9	2,3	3,2
180BU	14,9	17,7	0,60	2,8	3,2	4,5

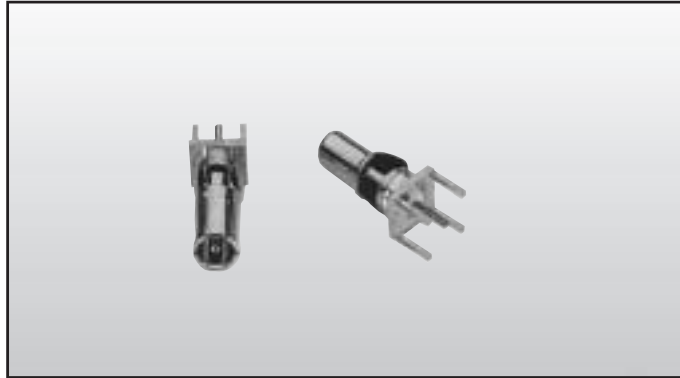
Part numbers

Kat 1 i ENA

Usable Cable RG	Part number for 500 mating cycles	
	Socket contact	Plug contact
179B/U, 187A/U	124 C 33039 X	123 C 33039 X
180 B/U	124 C 33049 X	123 C 33049 X

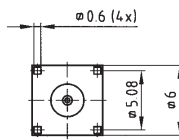
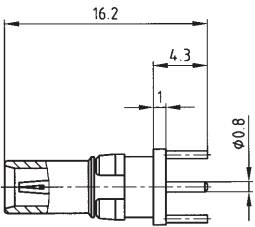
Usable Cable RG	Part number for 100 mating cycles	
	Socket contact	Plug contact
179B/U, 187A/U	124 A 33039 X	123 A 33039 X
180 B/U	124 A 33049 X	123 A 33049 X

Coaxial contacts
for straight PCB termination
with 5 solder pins

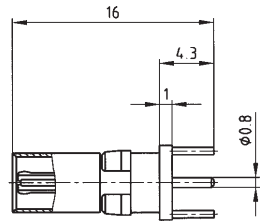


75 Ω

Socket contact



Plug contact



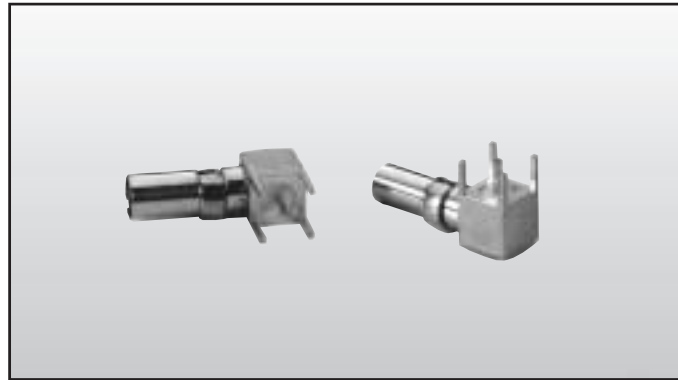
Note:
Socket contacts use with Plug connectors.
Plug contacts use with Socket connectors.

Part numbers

Kat 1 i EQA

Part number for 500 mating cycles	
Socket contact	Plug contact
124 C 34029 X	123 C 34029 X

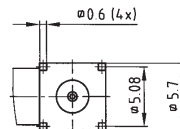
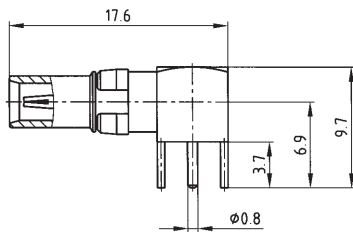
Part number for 100 mating cycles	
Socket contact	Plug contact
124 A 34029 X	123 A 34029 X



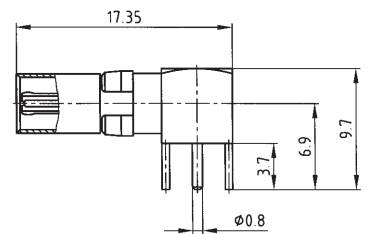
Coaxial contacts
for angled
PCB termination
with 5 solder pins

75 Ω

Socket contact



Plug contact



Note:

Socket contacts use with Plug connectors.
Plug contacts use with Socket connectors.

Kat 1 i ESA

Part numbers

Part number for 500 mating cycles	
Socket contact	Plug contact
124 C 35029 X	123 C 35029 X

Part number for 100 mating cycles	
Socket contact	Plug contact
124 A 35029 X	123 A 35029 X

SECTION 6

D-SUB HIGH POWER AND HIGH VOLTA

High voltage contacts are designed to fit the popular combination d-subminiature and the mixed layout DIN EN 60603 (DIN 41612) printed circuit board type connectors. This contact series can be inserted by the user or can be preloaded at the factory. Furthermore the high voltage contacts, high power contacts, coaxial contacts and signal contacts can all be loaded into the connector body.

The high voltage contacts are insertable and removable, insertion and removal tools are available. The contacts are suited for up to 2.8KV voltage requirements and can handle current of 2A. Mating areas are gold plated and the contacts are made from copper alloy.



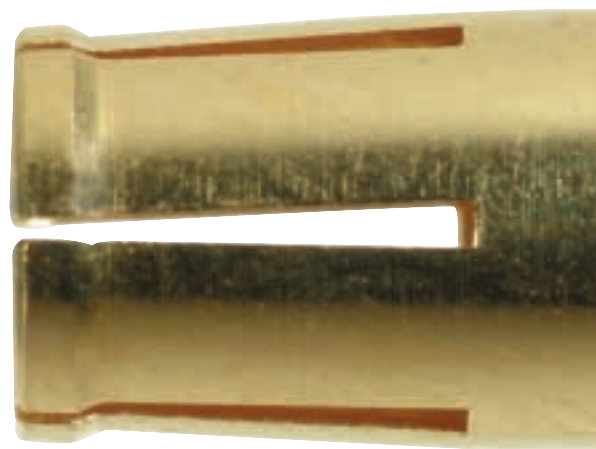
GE CONTACTS




D-sub high power contacts are designed to fit the combination d-subminiature connectors. The combination d-sub connector family allows the mix of high power contacts and signal contacts in the same connector body. Some connectors are designed to accept high power contacts only and no signal contacts.

This series of connectors is well suited for applications where printed circuit space and panel space is limited. The high power contacts are available with current handling capacity from 10A to 40A.

Termination types such as crimp, solder, screw terminal, straight, right angle, printed circuit board mountable through hole and press fit types are available. Crimp insertion and extraction tools are available for the entire series. These contacts are screw machine type for high reliability where long life is required and are made from copper alloy material and are gold plated in the mating area. Standard plating options are available, customer specific types can be supplied, contact factory for special options and features.

D-sub high power contacts are UL-CSA-VDE listed and approved.

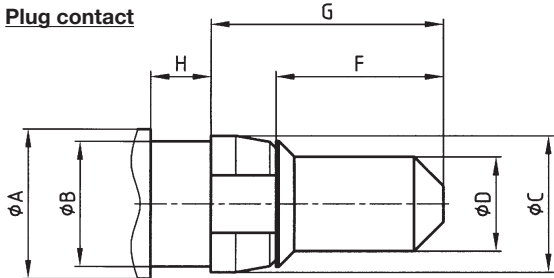


Technical Data		High Power Contacts	High Voltage Contacts	
Contact plating		Gold over nickel		
Contact material		Cu alloy		
Retaining clip		Cu alloy	PI	
Insulators		PTFE/PBTP/PI	PTFE	
Current rating (DC)		10-40A	2A	
Insulation resistance		$\geq 5G\Omega$	$\geq 2 \times 10^7 M\Omega$	
Contact resistance				
	inner conductor	$\leq 1m\Omega$	$\leq 2,7m\Omega$	
	outer conductor			
Dielectric voltage			2,8kV	
Temperature range		-55°C to +155°C	-55°C to +125°C	
Insertion force per signal contact		$\leq 7N$	$\leq 5N$	
Extraction force per signal contact		ca. 5N	ca. 2,5N	
Mating cycles		500 / 100	500	
Approvals		 (40000440)	 (E 202784)	 (LR 115000-1)

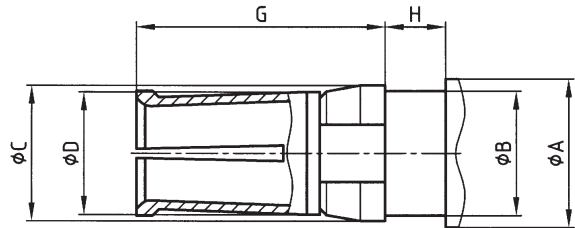
Connection dimensions

High Power Contacts

Plug contact

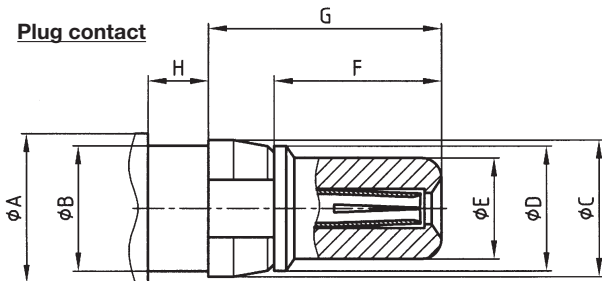


Socket contact

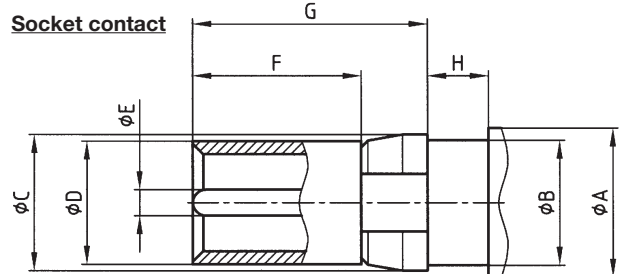


High Voltage Contacts

Plug contact



Socket contact



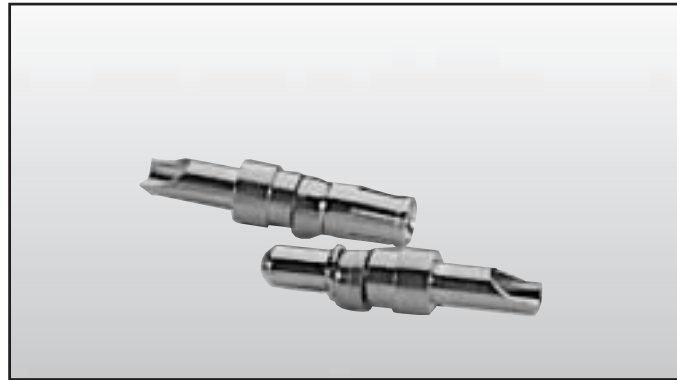
KAT 1 i YEA

Dimension	High Power Contacts			
	Plug contact		Socket contact	
	min.	max.	min.	max.
A		6,000	6,000	6,000
B	4,760	4,790	4,760	4,790
C	5,130	5,270	5,130	5,270
D	3,550	3,600		4,750
F	5,900	6,000		
G	9,250	9,400	9,450	9,600
H	2,200	2,400	2,200	2,400

KAT 1 i YDA

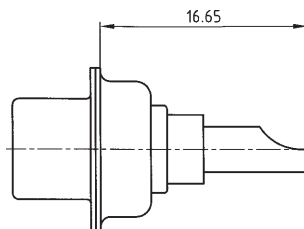
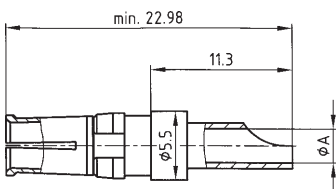
Dimension	High Voltage Contacts			
	Plug contact		Socket contact	
	min.	max.	min.	max.
A	5,200	5,270	5,200	5,270
B	4,760	4,790	4,760	4,790
C	5,130	5,270	5,130	5,270
D	4,700	4,800	4,700	4,800
E	3,600		0,990	1,040
F	6,800		6,800	
G	9,300	9,450	9,400	9,550
H	2,200	2,400	2,200	2,400

Specifications are subject to change without notice.

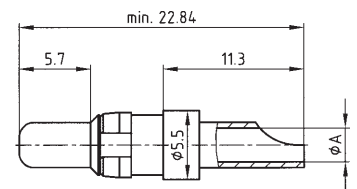


High power contacts for solder cup

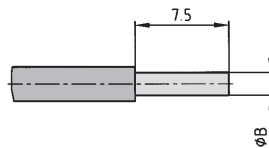
Socket contact



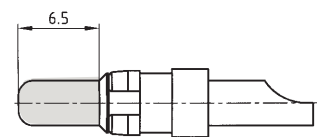
Plug contact



Wire stripping dimensions



Premating plug contact



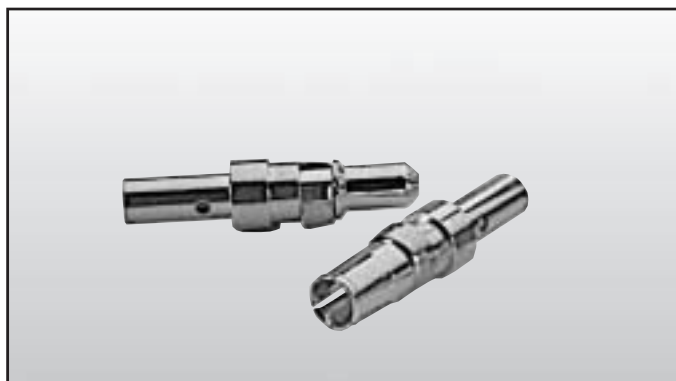
Wire Size	Current Rating	ØA +0.15	ØB _{max}	mm ² _{max}
AWG 16-20	10 A	1,80	1,80	2,5
AWG 12-14	20 A	2,70	2,70	5,7
AWG 10-12	30 A	3,50	3,50	9,6
AWG 8-10	40 A	4,80	4,80	18,1

Kat 1 i 8IB

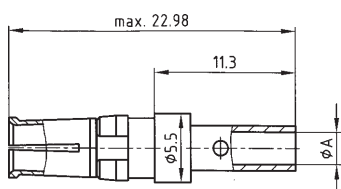
Part numbers

Wire Size	Current Rating	Part number for 500 mating cycles			Part number for 100 mating cycles	
		Socket contact	Plug contact	Premating plug contact	Socket contact	Plug contact
AWG 16-20	10 A	132 C 10019 X	131 C 10019 X	131 C 10119 X	132 A 10019 X	131 A 10019 X
AWG 12-14	20 A	132 C 10029 X	131 C 10029 X	131 C 10129 X	132 A 10029 X	131 A 10029 X
AWG 10-12	30 A	132 C 10039 X	131 C 10039 X	131 C 10139 X	132 A 10039 X	131 A 10039 X
AWG 8-10	40 A	132 C 10049 X	131 C 10049 X	131 C 10149 X	132 A 10049 X	131 A 10049 X

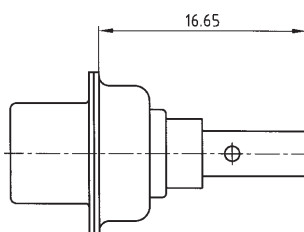
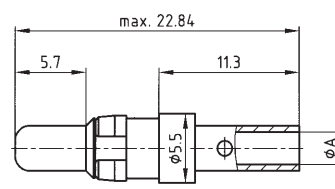
High power contacts
for crimp



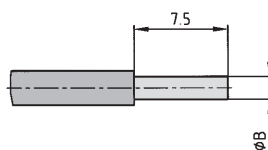
Socket contact



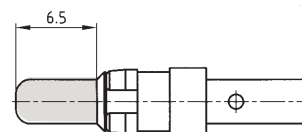
Plug contact



Wire stripping dimensions



Premating plug contact



Wire Size	Current Rating	ϕA +0,15	ϕB min.	ϕB max.	mm ² min.	mm ² max.
AWG 16-20	10 A	1,70	0,90	1,70	0,60	2,30
AWG 12-14	20 A	2,60	1,80	2,60	2,80	5,3
AWG 10-12	30 A	3,70	2,20	3,70	3,80	10,70
AWG 8-10	40 A	4,60	2,90	4,60	6,60	16,60

Part numbers

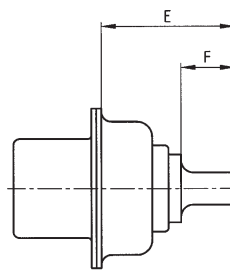
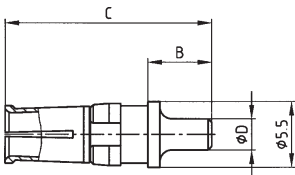
Kat 1 i 9iB

Wire Size	Current Rating	Part number for 500 mating cycles			Part number for 100 mating cycles	
		Socket contact	Plug contact	Premating plug contact	Socket contact	Plug contact
AWG 16-20	10 A	132 C 11019 X	131 C 11019 X	131 C 11119 X	132 A 11019 X	131 A 11019 X
AWG 12-14	20 A	132 C 11029 X	131 C 11029 X	131 C 11129 X	132 A 11029 X	131 A 11029 X
AWG 10-12	30 A	132 C 11039 X	131 C 11039 X	131 C 11139 X	132 A 11039 X	131 A 11039 X
AWG 8-10	40 A	132 C 11049 X	131 C 11049 X	131 C 11149 X	132 A 11049 X	131 A 11049 X

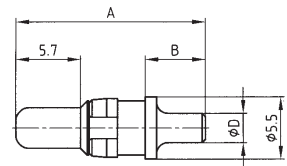


High power contacts for solder pin straight

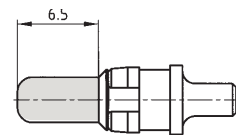
Socket contact



Plug contact



Premating plug contact



Current Rating	A	B	C	ØD	E	F
10A	15.84	4.30	15.98	1.95	9.65	3.80
20A	16.84	5.30	16.98	2.60	10.65	4.30
20A	16.24	4.70	16.38	2.85	10.05	3.70
30A	19.04	7.50	19.18	3.18	12.85	6.70
40A	17.29	5.75	17.43	3.75	11.10	4.75

Part numbers

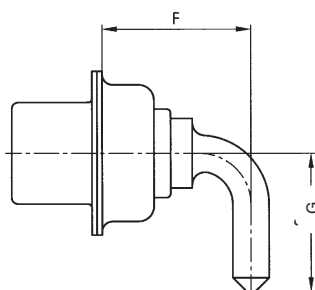
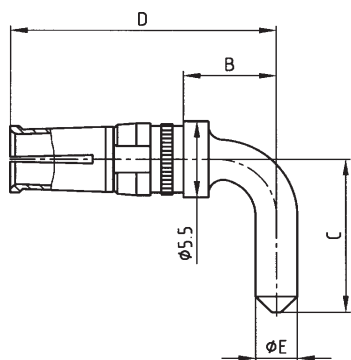
Kat 1 i 0 jA

Current Rating	Ø D	Part number for 500 mating cycles			Part number for 100 mating cycles	
		Socket contact	Plug contact	Premating plug contact	Socket contact	Plug contact
10 A	1,95 mm	132 C 12019 X	131 C 12019 X	131 C 12119 X	132 A 12019 X	131 A 12019 X
20 A	2,60 mm	132 C 12029 X	131 C 12029 X	131 C 12129 X	132 A 12029 X	131 A 12029 X
20 A	2,85 mm	132 C 12039 X	131 C 12039 X	131 C 12139 X	132 A 12039 X	131 A 12039 X
30 A	3,18 mm	132 C 12049 X	131 C 12049 X	131 C 12149 X	132 A 12049 X	131 A 12049 X
40 A	3,75 mm	132 C 12059 X	131 C 12059 X	131 C 12159 X	132 A 12059 X	131 A 12059 X

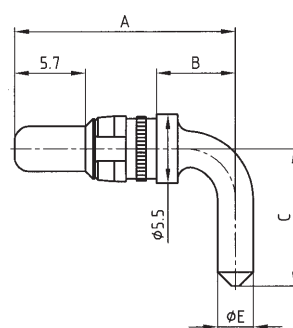
High power contacts
for solder pin angled



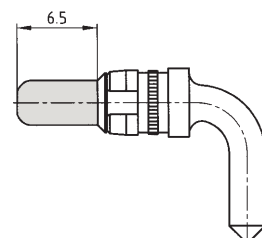
Socket contact



Plug contact



Premating plug contact



Current Rating	A	B	C	D	ØE	F	G
20A	17,84	6,30	11,00	17,98	2,85	11,65	11,00
30A	26,54	15,00	9,50	26,68	3,20	20,35	9,50
40A	17,84	6,30	11,00	17,98	3,75	11,65	11,00
40A	20,39	8,85	14,00	20,53	3,75	14,20	12,58
30 A	26,54	15,00	13,50	26,68	3,20	20,35	12,08

Part numbers

Kat 1 i 1 jA

Current Rating	Part number for 500 mating cycles			Part number for 100 mating cycles	
	Socket contact	Plug contact	Premating plug contact	Socket contact	Plug contact
20 A	132 C 13019 X	131 C 13019 X	131 C 13119 X	132 A 13019 X	131 A 13019 X
30 A	132 C 13029 X	131 C 13029 X	131 C 13129 X	132 A 13029 X	131 A 13029 X
40 A	132 C 13039 X	131 C 13039 X	131 C 13139 X	132 A 13039 X	131 A 13039 X
40 A	132 C 13049 X	131 C 13049 X	131 C 13149 X	132 A 13049 X	131 A 13049 X
30 A	132 C 13059 X	131 C 13059 X	131 C 13159 X	132 A 13059 X	131 A 13059 X

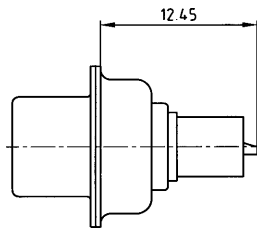
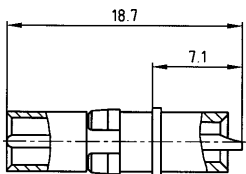
up to 2,8 KV



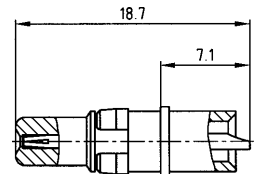
High voltage contacts for solder straight and angled

Solder straight

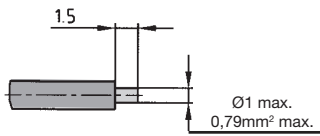
Socket contact



Plug contact

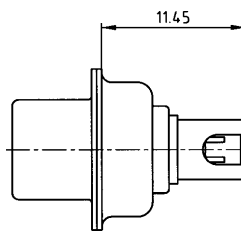
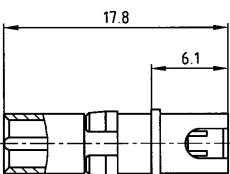


Wire stripping dimensions

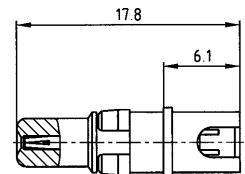


Solder right angle

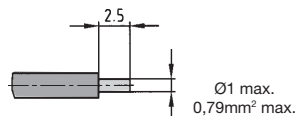
Socket contact



Plug contact



Wire stripping dimensions



Kat 1 i 2 JA

Part numbers

Kat 1 i 3 JA

Wire size	Part number for 500 mating cycles / straight version		Part number for 500 mating cycles / angled version	
	Socket contact	Plug contact	Socket contact	Plug contact
AWG 20	132 J 14019 X	131 J 14019 X	132 J 14519 X	131 J 14519 X

SECTION 7

DIN HIGH POWER CONTACTS



DIN high power contacts have been designed to be fully compatible with the DIN EN 60603 (DIN 41612) mixed layout printed circuit board connectors. The mixed layout connector series allows insertion of high power contacts with the preloaded signal contacts. This series of connectors provides power and signal contacts in the same connector body and is ideal for applications where printed circuit board space is limited.



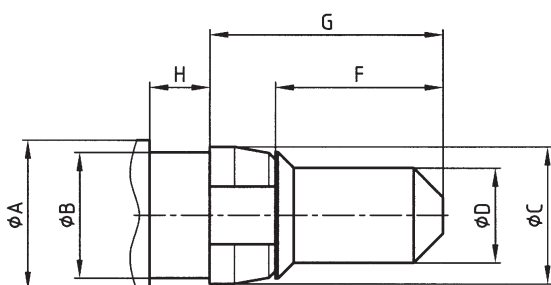
The user can selectively load the connector, or can order preloaded connectors from CONEC. Standard types such as solder, crimp, pcb mountable types, straight and right angle types are available. The high power contacts are designed to handle current ratings from 10A to 40A. The contacts are high reliability screw machine type and are made from copper alloy materials and are gold plated. Crimp, insertion and removal tools are available . For customer specific types please consult factory. Applicable standard: DIN 41626



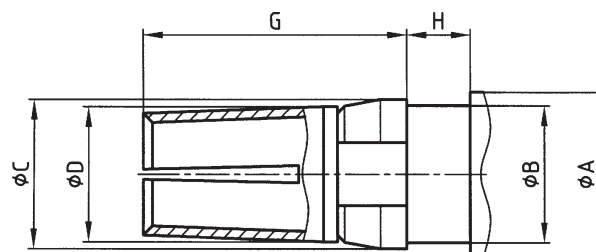
Technical Data	DIN High Power Contacts
Contact plating	Gold over nickel
Contact material	Cu alloy
Retaining clip	Cu alloy
Current rating (DC)	10 - 40A
Contact resistance inner conductor / outer conductor	≤ 1mΩ
Temperature range	-55°C to +155°C
Insertion force per signal contact	≤ 7N
Extraction force per signal contact	ca. 5N
Mating cycles	500 / 100

Connection dimensions

Plug contact



Socket contact

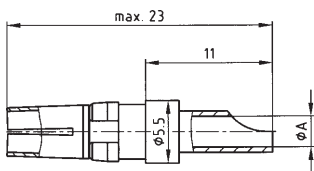


Dimensions	Plug contact		Socket contact	
	min.	max.	min.	max.
A		6,000		6,000
B	4,760	4,790	4,760	4,790
C	5,130	5,270	5,130	5,270
D	3,550	3,600		4,750
F	5,900	6,000		
G	9,250	9,400	9,450	9,600
H	2,200	2,400	2,200	2,400

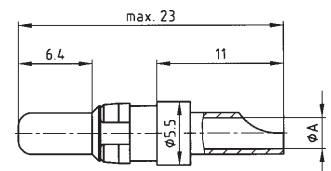


High power contacts for solder cup

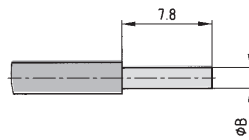
Socket contact



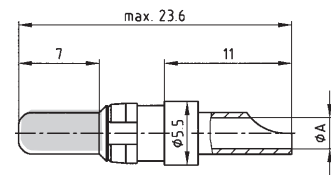
Plug contact



Wire stripping dimension



Premating plug contact



Wire Size	Current Rating	ØA ^{+0.15}	Ø B max.
AWG 16-20	10 A	1,80	1,80
AWG 12-16	20 A	2,70	2,70
AWG 8-12	40 A	4,80	4,70

Kat 1 | ETA

Part numbers

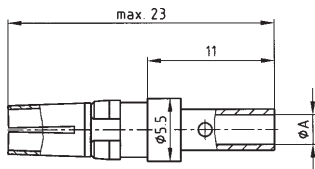
Kat 1 | EUA

Wire Size	Current Rating	Part number for 500 mating cycles			Part number for 100 mating cycles	
		Socket contact	Plug contact	Premating plug contact	Socket contact	Plug contact
AWG 16-20	10 A	124 C 10039 X	123 C 10039 X	123 C 10139 X	124 A 10039 X	123 A 10039 X
AWG 12-16	20 A	124 C 10049 X	123 C 10049 X	123 C 10149 X	124 A 10049 X	123 A 10049 X
AWG 8-10	40 A	124 C 10069 X	123 C 10069 X	123 C 10169 X	124 A 10069 X	123 A 10069 X

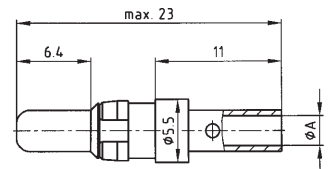
High power contacts for crimp



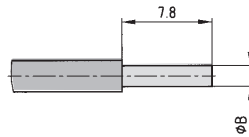
Socket contact



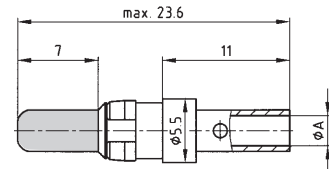
Plug contact



Wire stripping dimension



Premating plug contact



Wire Size	Current Rating	ØA ^{+0.15}	Ø B max.
AWG 16-20	10 A	1,70	1,70
AWG 12-16	20 A	2,60	2,60
AWG 10-14	30 A	3,70	3,70
AWG 8-12	40 A	4,60	4,60

Kat 1 i EVA

Part numbers

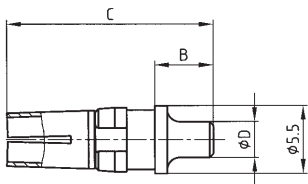
Kat 1 i EWA

Wire Size	Current Rating	Part number for 500 mating cycles			Part number for 100 mating cycles	
		Socket contact	Plug contact	Premating plug contact	Socket contact	Plug contact
AWG 16-20	10 A	124 C 11019 X	123 C 11019 X	123 C 11119 X	124 A 11019 X	123 A 11019 X
AWG 12-16	20 A	124 C 11029 X	123 C 11029 X	123 C 11129 X	124 A 11029 X	123 A 11029 X
AWG 10-14	30 A	124 C 11039 X	123 C 11039 X	123 C 11139 X	124 A 11039 X	123 A 11039 X
AWG 8-12	40 A	124 C 11049 X	123 C 11049 X	123 C 11149 X	124 A 11049 X	123 A 11049 X

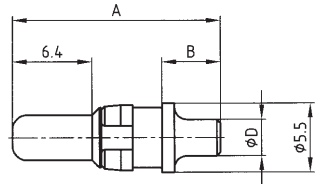


High power contacts for solder pin straight

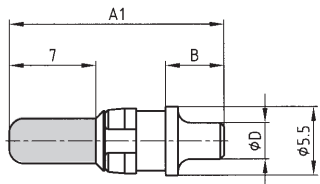
Socket contact



Plug contact



Premating plug contact



Current Rating	A	A 1	B	C	Ø D
20 A	16,70	17,30	4,70	16,10	2,90
40 A	17,75	18,35	5,75	17,15	3,80

Kat 1 i PKA

Part numbers

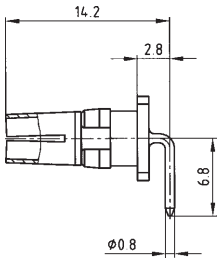
Kat 1 i VUA

Current Rating	Part number for 500 mating cycles			Part number for 100 mating cycles	
	Socket contact	Plug contact	Premating plug contact	Socket contact	Plug contact
20 A	124 C 14029 X	123 C 14029 X	123 C 14129 X	124 A 14029 X	123 A 14029 X
40 A	124 C 14049 X	123 C 14049 X	123 C 14149 X	124 A 14049 X	123 A 14049 X

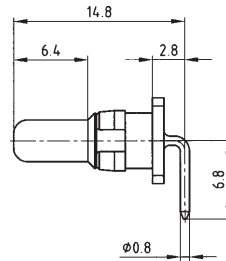


High power contacts for solder pin angled

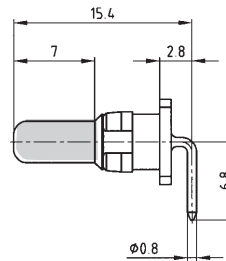
Socket contact



Plug contact



Premating plug contact



Kat 1 i EXA

Part numbers

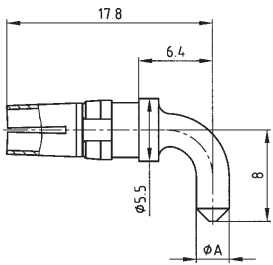
Kat 1 i EYA

Current Rating	Part number for 500 mating cycles			Part number for 100 mating cycles	
	Socket contact	Plug contact	Premating plug contact	Socket contact	Plug contact
10 A	124 C 12019 X	123 C 12019 X	123 C 12119 X	124 A 12019 X	123 A 12019 X

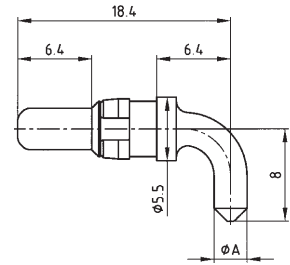


High power contacts for solder pin angled

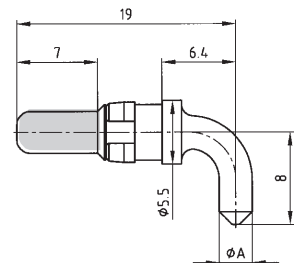
Socket contact



Plug contact



Premating plug contact



Current Rating	ØA
20 A	2,90
40 A	3,80

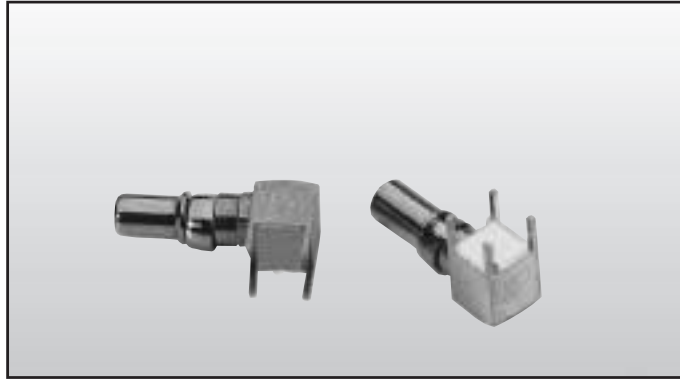
Part numbers

Kat 1 i EZA

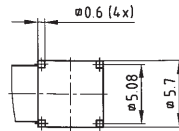
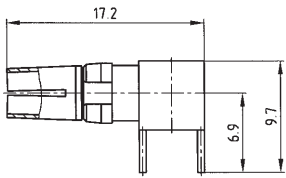
Kat 1 i FAA

Current Rating	Part number for 500 mating cycles			Part number for 100 mating cycles	
	Socket contact	Plug contact	Premating plug contact	Socket contact	Plug contact
20 A	124 C 13019 X	123 C 13019 X	123 C 13119 X	124 A 13019 X	123 A 13019 X
40 A	124 C 13039 X	123 C 13039 X	123 C 13139 X	124 A 13039 X	123 A 13039 X

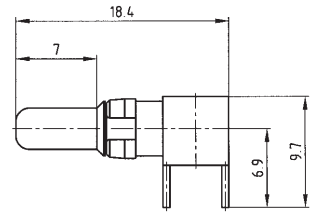
High power contacts
with 4 solder pins
for solder pin angled



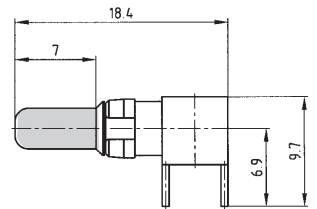
Socket contact



Plug contact



Premating plug contact



Part numbers

Kat 1 i FBA

Kat 1 i FCA

Current Rating	Part number for 500 mating cycles			Part number for 100 mating cycles	
	Socket contact	Plug contact	Premating plug contact	Socket contact	Plug contact
40 A	124 C 10019 X	123 C 10019 X	123 C 10029 X	124 A 10019 X	123 A 10019 X

Metric measures - Imperial measurement

m 1/1000 mm	micro inch 1/1000 inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
0,10	4	3,80	.150	11,60	.457	22,00	.866	33,30	1.311	50,80	2.000		
0,20	8	3,81	.150	11,90	.469	22,10	.870	33,80	1.331				
0,25	10	3,90	.154			22,20	.874			51,40	2.024		
0,30	12			12,00	.472	22,30	.878	34,00	1.339	51,50	2.028		
0,50	20	4,00	.158	12,20	.480	22,40	.882	34,20	1.346				
0,70	28	4,10	.161	12,30	.484	22,50	.886	34,40	1.354	52,00	2.047		
0,75	30	4,20	.165	12,40	.488	22,60	.890			52,30	2.059		
0,80	32	4,30	.169	12,50	.492	22,80	.898	35,00	1.378	52,80	2.079		
1,00	39	4,50	.177	12,70	.500	22,86	.900	35,40	1.394				
1,27	50	4,70	.185	12,90	.508	22,90	.902	35,50	1.398	53,00	2.087		
2,00	79	4,90	.193					35,56	1.400	53,20	2.095		
2,50	98	5,00	.197	13,00	.512	23,00	.906	35,60	1.402	53,80	2.118		
		5,08	.200	13,10	.516	23,10	.909						
3,00	118	5,10	.201	13,20	.520	23,30	.917	36,00	1.417	54,00	2.126		
4,00	157	5,20	.205	13,50	.532	23,50	.925	36,50	1.437	54,20	2.134		
5,00	197	5,30	.209	13,60	.535			36,60	1.441	54,90	2.161		
		5,40	.213	13,70	.539	24,00	.945	36,70	1.445				
		5,50	.217	13,90	.547	24,30	.957			55,00	2.165		
		5,60	.220			24,60	.969	37,00	1.457	55,40	2.181		
		5,70	.224	14,00	.551	24,90	.980	37,30	1.469	55,70	2.193		
		5,80	.228	14,30	.563			37,50	1.476				
				14,40	.567	25,00	.984	37,60	1.480	56,60	2.228		
		6,00	.236	14,50	.571	25,10	.998	37,70	1.484				
		6,10	.240	14,70	.579	25,40	1.000	37,90	1.492	57,40	2.260		
		6,40	.252	14,80	.583	25,60	1.008			57,80	2.276		
		6,50	.256	14,90	.587	25,90	1.020	38,00	1.496	57,90	2.280		
		6,60	.260	14,98	.590			38,10	1.500				
		6,70	.264			26,00	1.024			58,42	2.300		
		6,80	.268	15,00	.591	26,30	1.035	39,00	1.535				
		6,90	.272	15,20	.598	26,60	1.047	39,20	1.543	59,00	2.323		
				15,24	.600	26,70	1.051	39,30	1.547	59,20	2.331		
		7,00	.276	15,40	.606			39,90	1.571	59,80	2.354		
		7,10	.280	15,50	.610	27,00	1.063			59,90	2.358		
		7,20	.283	15,60	.614	27,20	1.071	40,00	1.575				
		7,40	.291	15,90	.626	27,40	1.079	40,30	1.587	60,00	2.362		
		7,50	.295			27,50	1.093	40,40	1.591	60,96	2.400		
		7,60	.299	16,00	.630	27,90	1.098	40,60	1.598	61,10	2.406		
		7,62	.300	16,20	.638	27,94	1.100			62,00	2.441		
		7,70	.303	16,50	.650			41,00	1.614	63,00	2.480		
		7,80	.307	16,60	.654	28,00	1.102	41,60	1.638	63,50	2.500		
		7,98	.314	16,80	.661	28,20	1.110			64,00	2.520		
						28,50	1.122	42,70	1.681				
		8,00	.315	17,00	.669	28,70	1.130			65,00	2.560		
		8,18	.318	17,20	.677			43,18	1.700	67,00	2.638		
		8,20	.323	17,30	.681	29,00	1.142			68,00	2.677		
		8,30	.327	17,50	.689	29,20	1.150	44,20	1.740	69,00	2.717		
		8,40	.331	17,60	.693	29,40	1.158	44,80	1.764				
		8,50	.335	17,70	.697	29,50	1.161			70,00	2.756		
		8,60	.339	17,78	.700	29,70	1.169	45,80	1.803	71,00	2.795		
		8,90	.350	17,80	.701	29,90	1.177			74,00	2.913		
				17,90	.705			46,30	1.823				
		9,00	.354			30,00	1.181	46,70	1.839	75,00	2.953		
		9,10	.358	18,00	.709	30,20	1.189			76,20	3.000		
		9,20	.362	18,10	.713	30,40	1.197	47,00	1.850	77,0	3.032		
		9,30	.366	18,30	.721	30,48	1.200	47,20	1.858	78,74	3.100		
		9,40	.370	18,60	.732	30,50	1.201	47,30	1.862				
		9,50	.374			30,80	1.213	47,50	1.870	80,00	3.150		
		9,60	.378	19,00	.748	30,90	1.217	47,80	1.882	81,28	3.200		
		9,70	.382	19,20	.756					84,00	3.307		
		9,90	.390	19,50	.768			48,00	1.890				
				19,70	.776	31,00	1.220	48,10	1.894	85,00	3.346		
		10,00	.395	19,80	.780	31,20	1.228	48,26	1.900	86,36	3.400		
		10,16	.400	19,90	.783	31,50	1.240	48,80	1.921	88,90	3.500		
		10,26	.402			31,70	1.248						
		10,36	.406	20,00	.787			49,10	1.933	90,00	3.543		
		10,56	.413	20,10	.791	32,00	1.260	49,50	1.949	91,44	3.600		
		10,66	.417	20,30	.799	32,20	1.268	49,90	1.965	94,00	3.701		
		10,76	.421	20,32	.800	32,30	1.272			95,00	3.740		
				20,50	.807	32,50	1.280						
		11,00	.433			32,80	1.291	50,10	1.972				
		11,20	.441	21,00	.827			50,30	1.980	100,00	3.937		
		11,40	.449	21,10	.831	33,00	1.299	50,50	1.988	110,00	4.331		
		11,50	.453	21,70	.854	33,10	1.303	50,70	1.996	120,00	4.724		

SECTION 8

TOOLS

CONEC offers complete assembly tooling for the entire series of contacts. Hand crimping, pneumatic, insertion, extraction and installation tools are available.

These tools are specifically designed for the various contact types and are of high quality and are easy to use. Complete instructions are provided with each tool to allow proper usage and application.

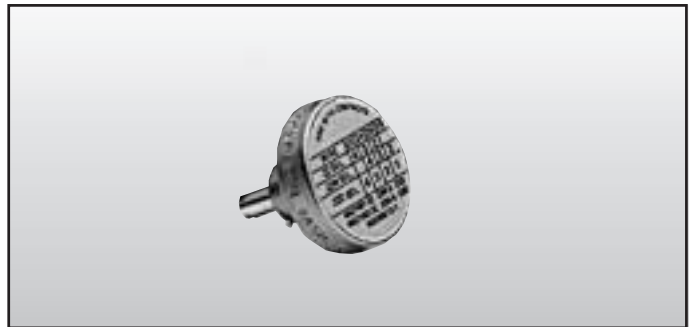






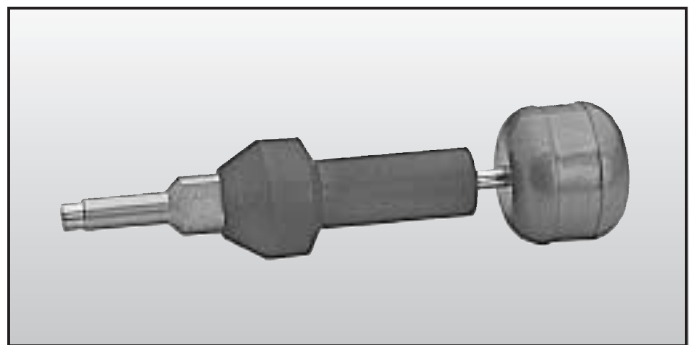
Hand crimp tool
for high power contacts

Part number 360 X 10409 X



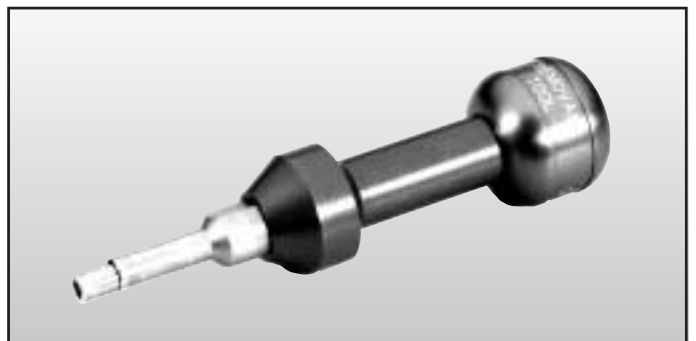
Inserts
for 360 X 10409 X hand crimp tool

Part number 360 X 20029 X



Extraction tool
for DIN EN 60603 (DIN 41626),
high power and coaxial contacts

Part number 360 X 10219 X

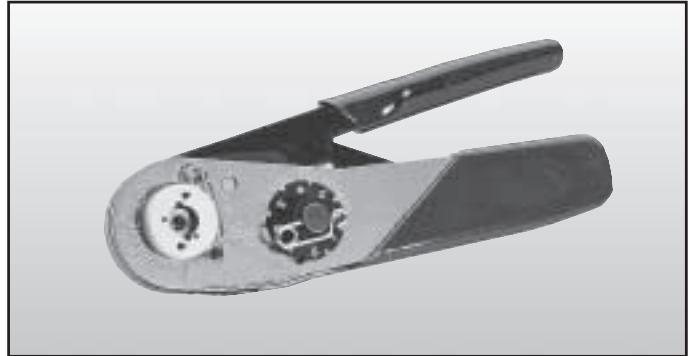


Extraction tool
for D-Subminiature coaxial, high power
and high voltage contacts

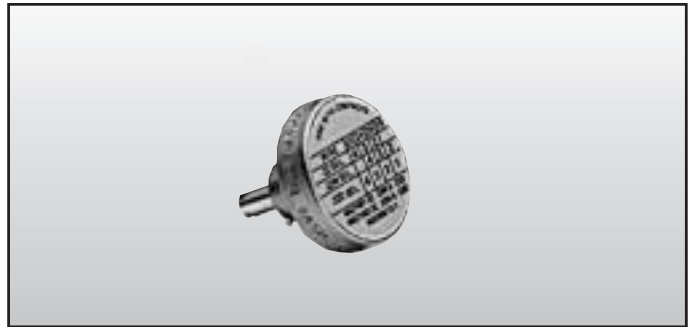
Part number 360 X 10319 X

Hand crimp tool
for D-Sub, DIN and BNC coaxial contacts (inner conductor)

Part number **360 X 10329 X**



Inserts
for hand crimp tool **360 X 10329 X**



Inserts are for both types of platings 500 mating cycles = „C“ and 100 mating cycles = „A“

Inserts for hand crimp tool DIN coaxial contacts (inner conductor)			
Plug contacts	Socket contacts	Tool insert	Insert cavity
123 C 21049 X	124 C 21049 X	360 X 11049 X	depends on wire select cavity
123 C 21059 X	124 C 21059 X	360 X 11049 X	
123 C 21069 X	124 C 21069 X	360 X 11049 X	
123 C 23049 X	124 C 23049 X	360 X 11059 X	AWG Cavity
123 C 23059 X	124 C 23059 X	360 X 11059 X	24 → 5
123 C 23069 X	124 C 23069 X	360 X 11059 X	26 → 5
123 C 33039 X	124 C 33039 X	360 X 11059 X	28 → 4
123 C 33049 X	124 C 33049 X	360 X 11059 X	30 → 3

Inserts are for both types of platings 500 mating cycles = „J“ and 100 mating cycles = „A“

Inserts for hand crimp tool D-Sub coaxial contacts (inner conductor)			
Plug contacts	Socket contacts	Tool insert	Insert cavity
131 J 21019 X	132 J 21019 X	360 X 11049 X	depends on wire select cavity
131 J 21029 X	132 J 21029 X	360 X 11049 X	
131 J 21039 X	132 J 21039 X	360 X 11049 X	
131 J 23019 X	132 J 23019 X	360 X 11059 X	AWG Nest
131 J 31019 X	132 J 31019 X	360 X 11049 X	24 → 5
131 J 31029 X	132 J 31029 X	360 X 11049 X	26 → 5
131 J 33019 X	132 J 33019 X	360 X 11059 X	28 → 4
			30 → 3

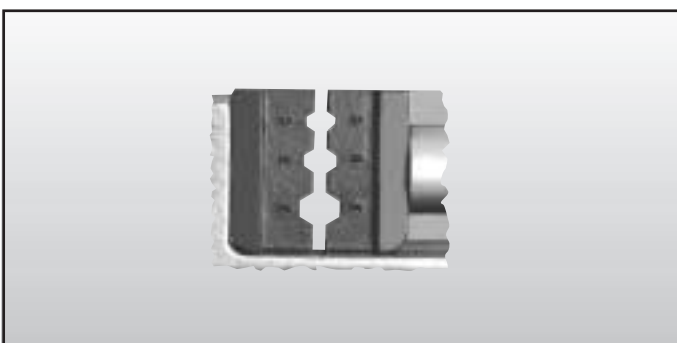
Inserts for hand crimp tool BNC coaxial contacts (inner conductor)	
BNC Plug contacts	360 X 20049 X
BNC Socket contacts	360 X 20059 X

Hand Crimp tool
for D-Sub, DIN and BNC coaxial contacts (outer conductor)

Part number **360 X 10519 X**



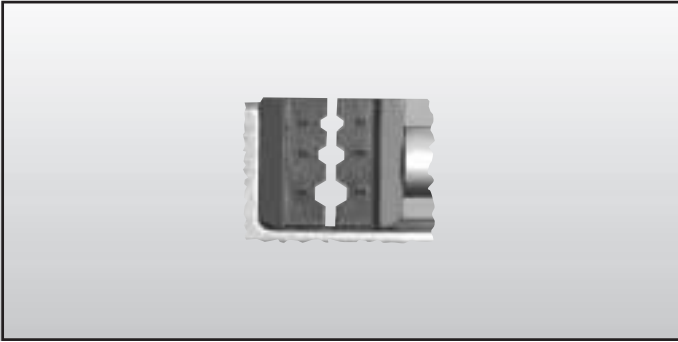
Inserts
for hand crimp tool **360 X 10519 X**



Inserts for hand crimp tool D-Sub coaxial contacts (outer conductor)

<u>Plug contacts</u>	<u>Socket contacts</u>	<u>Tool insert</u>	<u>Insert cavity</u>
131 J 20019 X	132 J 20019 X	360 X 11019 X	C
131 J 20029 X	132 J 20029 X	360 X 11019 X	B
131 J 20039 X	132 J 20039 X	360 X 11019 X	A
131 J 20049 X	132 J 20049 X	360 X 11029 X	A
131 J 20059 X	132 J 20059 X	360 X 11039 X	B
131 J 21019 X	132 J 21019 X	360 X 11019 X	B
131 J 21029 X	132 J 21029 X	360 X 11039 X	B
131 J 21039 X	132 J 21039 X	360 X 11029 X	A
131 J 22019 X	132 J 22019 X	360 X 11019 X	B
131 J 22029 X	132 J 22029 X	360 X 11019 X	C
131 J 22039 X	132 J 22039 X	360 X 11039 X	B
131 J 23019 X	132 J 23019 X	360 X 11019 X	B
131 J 30019 X	132 J 30019 X	360 X 11019 X	B
131 J 30029 X	132 J 30029 X	360 X 11019 X	B
131 J 31019 X	132 J 31019 X	360 X 11019 X	B
131 J 31029 X	132 J 31029 X	360 X 11019 X	A
131 J 33019 X	132 J 33019 X	360 X 11019 X	B

Inserts are for both types of platings 500 mating cycles = „J“ and 100 mating cycles = „A“



Inserts
for hand crimp tool **360 X 10519 X**

Inserts for hand crimp tool DIN-coaxial contacts (outer conductor)			
Plug contacts	Socket contacts	Tool insert	Insert cavity
123 C 20059 X	124 C 20059 X	360 X 11019 X	C
123 C 20069 X	124 C 20069 X	360 X 11019 X	B
123 C 20079 X	124 C 20079 X	360 X 11039 X	B
123 C 20089 X	124 C 20089 X	360 X 11029 X	A
123 C 21049 X	124 C 21049 X	360 X 11019 X	B
123 C 21059 X	124 C 21059 X	360 X 11029 X	A
123 C 21069 X	124 C 21069 X	360 X 11039 X	B
123 C 22069 X	124 C 22069 X	360 X 11019 X	C
123 C 22079 X	124 C 22079 X	360 X 11019 X	B
123 C 22089 X	124 C 22089 X	360 X 11039 X	B
123 C 22099 X	124 C 22099 X	360 X 11019 X	A
123 C 22109 X	124 C 22109 X	360 X 11029 X	A
123 C 32049 X	124 C 32049 X	360 X 11019 X	C
123 C 32059 X	124 C 32059 X	360 X 11019 X	B
123 C 32069 X	124 C 32069 X	360 X 11019 X	A
123 C 23049 X	124 C 23049 X	360 X 11019 X	B
123 C 23059 X	124 C 23059 X	360 X 11039 X	B
123 C 23069 X	124 C 23069 X	360 X 11029 X	A
123 C 33039 X	124 C 33039 X	360 X 11019 X	B
123 C 33049 X	124 C 33049 X	360 X 11019 X	A

Inserts are for both types of platings 500 mating cycles = „C“ and 100 mating cycles = „A“

BNC coaxial contacts (outer conductor)			
Usable Cables	Ohm	Tool insert	Insert cavity
RG 174A/U, 188A/U,316/U	50 Ω	360 X 11029 X	A
RG 58	50 Ω	360 X 11029 X	A
RG 400	50 Ω	360 X 11029 X	A
RG 179B/U, 187A/U	75 Ω	360 X 11029 X	A
RG 734	75 Ω	360 X 12199 X	A
RG 735A	75 Ω	360 X 12209 X	B

SECTION 9

PART NUMBERS



66589B

66589

66589B 74



On the following pages
you will find the CONEC
catalogue program sorted
by part numbers.

75 589B 76 B 77

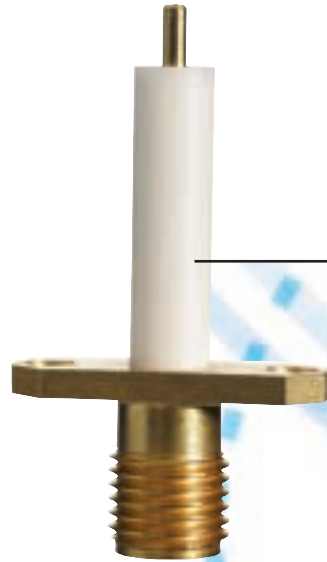
PART NUMBERS

Part numbers	Page	Part numbers	Page	Part numbers	Page	Part numbers	Page
123 A 10019 X	7.8	123 C 22089 X	5.5	124 C 21059 X	5.4	131 C 11049 X	6.4
123 A 10039 X	7.3	123 C 22099 X	5.5	124 C 21069 X	5.4	131 C 11119 X	6.4
123 A 10049 X	7.3	123 C 22109 X	5.5	124 C 22069 X	5.5	131 C 11129 X	6.4
123 A 10069 X	7.3	123 C 23049 X	5.6	124 C 22079 X	5.5	131 C 11139 X	6.4
123 A 11019 X	7.4	123 C 23059 X	5.6	124 C 22089 X	5.5	131 C 11149 X	6.4
123 A 11029 X	7.4	123 C 23069 X	5.6	124 C 22099 X	5.5	131 C 12019 X	6.5
123 A 11039 X	7.4	123 C 24039 X	5.7	124 C 22109 X	5.5	131 C 12029 X	6.5
123 A 11049 X	7.4	123 C 24049 X	5.7	124 C 23049 X	5.6	131 C 12039 X	6.5
123 A 12019 X	7.6	123 C 25029 X	5.8	124 C 23059 X	5.6	131 C 12049 X	6.5
123 A 13019 X	7.7	123 C 30039 X	5.9	124 C 23069 X	5.6	131 C 12059 X	6.5
123 A 13039 X	7.7	123 C 30049 X	5.9	124 C 24039 X	5.7	131 C 12119 X	6.5
123 A 14029 X	7.5	123 C 32049 X	5.10	124 C 24049 X	5.7	131 C 12129 X	6.5
123 A 14049 X	7.5	123 C 32059 X	5.10	124 C 25029 X	5.8	131 C 12139 X	6.5
123 A 20059 X	5.3	123 C 32069 X	5.10	124 C 30039 X	5.9	131 C 12149 X	6.5
123 A 20069 X	5.3	123 C 33039 X	5.11	124 C 30049 X	5.9	131 C 12159 X	6.5
123 A 20079 X	5.3	123 C 33049 X	5.11	124 C 32049 X	5.10	131 C 13019 X	6.6
123 A 20089 X	5.3	123 C 34029 X	5.12	124 C 32059 X	5.10	131 C 13029 X	6.6
123 A 21049 X	5.4	123 C 35029 X	5.13	124 C 32069 X	5.10	131 C 13039 X	6.6
123 A 21059 X	5.4	124 A 10019 X	7.8	124 C 33039 X	5.11	131 C 13049 X	6.6
123 A 21069 X	5.4	124 A 10039 X	7.3	124 C 33049 X	5.11	131 C 13059 X	6.6
123 A 22069 X	5.5	124 A 10049 X	7.3	124 C 34029 X	5.12	131 C 13119 X	6.6
123 A 22079 X	5.5	124 A 10069 X	7.3	124 C 35029 X	5.13	131 C 13129 X	6.6
123 A 22089 X	5.5	124 A 11019 X	7.4	131 A 10019 X	6.3	131 C 13139 X	6.6
123 A 22099 X	5.5	124 A 11029 X	7.4	131 A 10029 X	6.3	131 C 13149 X	6.6
123 A 22109 X	5.5	124 A 11039 X	7.4	131 A 10039 X	6.3	131 C 13159 X	6.6
123 A 23049 X	5.6	124 A 11049 X	7.4	131 A 10049 X	6.3	131 J 14019 X	6.7
123 A 23059 X	5.6	124 A 12019 X	7.6	131 A 11019 X	6.4	131 J 14519 X	6.7
123 A 23069 X	5.6	124 A 13019 X	7.7	131 A 11029 X	6.4	131 J 20019 X	4.3
123 A 24039 X	5.7	124 A 13039 X	7.7	131 A 11039 X	6.4	131 J 20029 X	4.3
123 A 24049 X	5.7	124 A 14029 X	7.5	131 A 11049 X	6.4	131 J 20039 X	4.3
123 A 25029 X	5.8	124 A 14049 X	7.5	131 A 12019 X	6.5	131 J 20049 X	4.3
123 A 30039 X	5.9	124 A 20059 X	5.3	131 A 12029 X	6.5	131 J 20059 X	4.3
123 A 30049 X	5.9	124 A 20069 X	5.3	131 A 12039 X	6.5	131 J 22019 X	4.5
123 A 32049 X	5.10	124 A 20079 X	5.3	131 A 12049 X	6.5	131 J 22029 X	4.5
123 A 32059 X	5.10	124 A 20089 X	5.3	131 A 12059 X	6.5	131 J 22039 X	4.5
123 A 32069 X	5.10	124 A 21049 X	5.4	131 A 13019 X	6.6	131 J 24019 X	4.7
123 A 33039 X	5.11	124 A 21059 X	5.4	131 A 13029 X	6.6	131 J 25019 X	4.8
123 A 33049 X	5.11	124 A 21069 X	5.4	131 A 13039 X	6.6	131 J 25029 X	4.8
123 A 34029 X	5.12	124 A 22069 X	5.5	131 A 13049 X	6.6	131 J 25519 X	4.9
123 A 35029 X	5.13	124 A 22079 X	5.5	131 A 13059 X	6.6	131 J 30019 X	4.10
123 C 10019 X	7.8	124 A 22089 X	5.5	131 A 20019 X	4.3	131 J 30029 X	4.10
123 C 10029 X	7.8	124 A 22099 X	5.5	131 A 20029 X	4.3	131 J 31019 X	4.11
123 C 10039 X	7.3	124 A 22109 X	5.5	131 A 20039 X	4.3	131 J 31029 X	4.11
123 C 10049 X	7.3	124 A 23049 X	5.6	131 A 20049 X	4.3	131 J 33019 X	4.12
123 C 10069 X	7.3	124 A 23059 X	5.6	131 A 20059 X	4.3	131 J 34019 X	4.13
123 C 10139 X	7.3	124 A 23069 X	5.6	131 A 21019 X	4.4	131 J 35019 X	4.14
123 C 10149 X	7.3	124 A 24039 X	5.7	131 A 21029 X	4.4	131 J 35029 X	4.14
123 C 10169 X	7.3	124 A 24049 X	5.7	131 A 21039 X	4.4	131 J 35519 X	4.15
123 C 11019 X	7.4	124 A 25029 X	5.8	131 A 22019 X	4.5	132 A 10019 X	6.3
123 C 11029 X	7.4	124 A 30039 X	5.9	131 A 22029 X	4.5	132 A 10029 X	6.3
123 C 11039 X	7.4	124 A 30049 X	5.9	131 A 22039 X	4.5	132 A 10039 X	6.3
123 C 11049 X	7.4	124 A 32049 X	5.10	131 A 24019 X	4.7	132 A 10049 X	6.3
123 C 11119 X	7.4	124 A 32059 X	5.10	131 A 25019 X	4.8	132 A 11019 X	6.4
123 C 11129 X	7.4	124 A 32069 X	5.10	131 A 25029 X	4.8	132 A 11029 X	6.4
123 C 11139 X	7.4	124 A 33039 X	5.11	131 A 25519 X	4.9	132 A 11039 X	6.4
123 C 11149 X	7.4	124 A 33049 X	5.11	131 A 30019 X	4.10	132 A 11049 X	6.4
123 C 12019 X	7.6	124 A 35029 X	5.13	131 A 30029 X	4.10	132 A 12019 X	6.5
123 C 12119 X	7.6	124 C 10019 X	7.8	131 A 31019 X	4.11	132 A 12029 X	6.5
123 C 13019 X	7.7	124 C 10039 X	7.3	131 A 31029 X	4.11	132 A 12039 X	6.5
123 C 13039 X	7.7	124 C 10049 X	7.3	131 A 33019 X	4.12	132 A 12049 X	6.5
123 C 13119 X	7.7	124 C 10069 X	7.3	131 A 34019 X	4.13	132 A 12059 X	6.5
123 C 13139 X	7.7	124 C 11019 X	7.4	131 A 35019 X	4.14	132 A 13019 X	6.6
123 C 14029 X	7.5	124 C 11029 X	7.4	131 A 35029 X	4.14	132 A 13029 X	6.6
123 C 14049 X	7.5	124 C 11039 X	7.4	131 A 35519 X	4.15	132 A 13039 X	6.6
123 C 14129 X	7.5	124 C 11049 X	7.4	131 C 10019 X	6.3	132 A 13049 X	6.6
123 C 14149 X	7.5	124 C 12019 X	7.6	131 C 10029 X	6.3	132 A 13059 X	6.6
123 C 20059 X	5.3	124 C 13019 X	7.7	131 C 10039 X	6.3	132 A 20019 X	4.3
123 C 20069 X	5.3	124 C 13039 X	7.7	131 C 10049 X	6.3	132 A 20029 X	4.3
123 C 20079 X	5.3	124 C 14029 X	7.5	131 C 10119 X	6.3	132 A 20039 X	4.3
123 C 20089 X	5.3	124 C 14049 X	7.5	131 C 10129 X	6.3	132 A 20049 X	4.3
123 C 21049 X	5.4	124 C 20059 X	5.3	131 C 10139 X	6.3	132 A 20059 X	4.3
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123 C 21069 X	5.4	124 C 20079 X	5.3	131 C 11019 X	6.4	132 A 21029 X	4.4
123 C 22069 X	5.5	124 C 20089 X	5.3	131 C 11029 X	6.4	132 A 21039 X	4.4
123 C 22079 X	5.5	124 C 21049 X	5.4	131 C 11039 X	6.4	132 A 22019 X	4.5

Part numbers	Page	Part numbers	Page	Part numbers	Page
132 A 22029 X	4.5	360 X 20059 X	8.3	SMA-50S JG 0302 BR	1.6
132 A 22039 X	4.5	BNC-50P AN 0112 BR	3.5	SMA-50S JG 0304 BR	1.6
132 A 23019 X	4.6	BNC-50P AN 0113 BR	3.5	SMA-50S JG 5612 BR	1.5
132 A 24019 X	4.7	BNC-50P AN 0202 BR	3.4	SMA-50S JG 5613 BR	1.5
132 A 25019 X	4.8	BNC-50P AN 0204 BR	3.4	SMA-50S JG 5702 BR	1.7
132 A 25029 X	4.8	BNC-50P AN 0304 BR	3.7	SMA-50S JG 5704 BR	1.7
132 A 25519 X	4.9	BNC-50P AN 0402 BR	3.6	SMA-50S JG 5899 BR	1.8
132 A 30019 X	4.10	BNC-50P JN 0112 BR	3.5	SMA-50S JG 5999 BR	1.8
132 A 30029 X	4.10	BNC-50P JN 0113 BR	3.5	SMA-50S JG 6099 BR	1.9
132 A 31019 X	4.11	BNC-50P JN 0202 BR	3.4	SMA-50S JG 6199 BR	1.9
132 A 31029 X	4.11	BNC-50P JN 0204 BR	3.4	SMA-50S JG 6299 BR	1.10
132 A 33019 X	4.12	BNC-75P JN 0206 BR	3.4	SMA-50S JG 6399 BR	1.10
132 A 34019 X	4.13	BNC-50P JN 0208 BR	3.4	SMA-50S JG 6599 BR	1.11
132 A 35019 X	4.14	BNC-50P JN 0304 BR	3.7	SMA-50S JN 0302 BR	1.6
132 A 35029 X	4.14	BNC-50P JN 0402 BR	3.6	SMA-50S JN 0304 BR	1.6
132 A 35519 X	4.15	BNC-50S AN 5199 BR	3.9	SMA-50S JN 5702 BR	1.7
132 C 10019 X	6.3	BNC-50S AN 5299 BR	3.8	SMA-50S JN 5704 BR	1.7
132 C 10029 X	6.3	BNC-50S JN 5199 BR	3.9	SMA-50S JN 5899 BR	1.8
132 C 10039 X	6.3	BNC-50S JN 5299 BR	3.8	SMA-50S JN 5999 BR	1.8
132 C 10049 X	6.3	BNC-75P AN 0206 BR	3.4	SMA-50S JN 6099 BR	1.9
132 C 11019 X	6.4	BNC-75P AN 0209 BR	3.4	SMA-50S JN 6199 BR	1.9
132 C 11029 X	6.4	BNC-75P AN 0210 BR	3.4	SMA-50S JN 6299 BR	1.10
132 C 11039 X	6.4	BNC-75P AN 0211 BR	3.4	SMA-50S JN 6399 BR	1.10
132 C 11049 X	6.4	BNC-75P JN 0209 BR	3.4	SMA-50S JN 6599 BR	1.11
132 C 12019 X	6.5	BNC-75P JN 0210 BR	3.4	SSMA-50P AG 0113 BR	2.4
132 C 12029 X	6.5	BNC-75P JN 0211 BR	3.4	SSMA-50P AG 0302 BR	2.6
132 C 12039 X	6.5	BNC-75S AN 5199 BR	3.9	SSMA-50P AN 0113 BR	2.4
132 C 12049 X	6.5	BNC-75S AN 5299 BR	3.8	SSMA-50P AN 0302 BR	2.6
132 C 12059 X	6.5	BNC-75S JN 5199 BR	3.9	SSMA-50P JG 0113 BR	2.4
132 C 13019 X	6.6	BNC-75S JN 5299 BR	3.8	SSMA-50P JG 0302 BR	2.6
132 C 13029 X	6.6	BNC-50P AN 0208 BR	3.4	SSMA-50P JN 0113 BR	2.4
132 C 13039 X	6.6	SMA-50P AG 0112 BR	1.4	SSMA-50P JN 0302 BR	2.6
132 C 13049 X	6.6	SMA-50P AG 0113 BR	1.4	SSMA-50S AG 0113 BR	2.4
132 C 13059 X	6.6	SMA-50P AG 0302 BR	1.6	SSMA-50S AG 0302 BR	2.6
132 J 14019 X	6.7	SMA-50P AG 0304 BR	1.6	SSMA-50S AG 5199 BR	2.9
132 J 14519 X	6.7	SMA-50P AN 0112 BR	1.4	SSMA-50S AG 5613 BR	2.5
132 J 20019 X	4.3	SMA-50P AN 0113 BR	1.4	SSMA-50S AG 5899 BR	2.7
132 J 20029 X	4.3	SMA-50P AN 0302 BR	1.6	SSMA-50S AG 6299 BR	2.10
132 J 20039 X	4.3	SMA-50P AN 0304 BR	1.6	SSMA-50S AG 6399 BR	2.10
132 J 20049 X	4.3	SMA-50P JG 0112 BR	1.4	SSMA-50S AG 6613 BR	2.5
132 J 20059 X	4.3	SMA-50P JG 0113 BR	1.4	SSMA-50S AG 6799 BR	2.7
132 J 21019 X	4.4	SMA-50P JG 0302 BR	1.6	SSMA-50S AG 6899 BR	2.8
132 J 21029 X	4.4	SMA-50P JG 0304 BR	1.6	SSMA-50S AN 6899 BR	2.8
132 J 21039 X	4.4	SMA-50P JN 0112 BR	1.4	SSMA-50S AN 0302 BR	2.6
132 J 22019 X	4.5	SMA-50P JN 0113 BR	1.4	SSMA-50S AN 5899 BR	2.7
132 J 22029 X	4.5	SMA-50P JN 0302 BR	1.6	SSMA-50S AN 6299 BR	2.10
132 J 22039 X	4.5	SMA-50P JN 0304 BR	1.6	SSMA-50S AN 6399 BR	2.10
132 J 23019 X	4.6	SMA-50S AG 0112 BR	1.4	SSMA-50S AN 6799 BR	2.7
132 J 24019 X	4.7	SMA-50S AG 0113 BR	1.4	SSMA-50S JG 0113 BR	2.4
132 J 25019 X	4.8	SMA-50S AG 0302 BR	1.6	SSMA-50S JG 0302 BR	2.6
132 J 25029 X	4.8	SMA-50S AG 0304 BR	1.6	SSMA-50S JG 5199 BR	2.9
132 J 25519 X	4.9	SMA-50S AG 5612 BR	1.5	SSMA-50S JG 5613 BR	2.5
132 J 30019 X	4.10	SMA-50S AG 5613 BR	1.5	SSMA-50S JG 5899 BR	2.7
132 J 30029 X	4.10	SMA-50S AG 5702 BR	1.7	SSMA-50S JG 5999 BR	2.10
132 J 31019 X	4.11	SMA-50S AG 5704 BR	1.7	SSMA-50S JG 6399 BR	2.10
132 J 31029 X	4.11	SMA-50S AG 5899 BR	1.8	SSMA-50S JG 6613 BR	2.5
132 J 33019 X	4.12	SMA-50S AG 5999 BR	1.8	SSMA-50S JG 6799 BR	2.7
132 J 34019 X	4.13	SMA-50S AG 6099 BR	1.9	SSMA-50S JG 6899 BR	2.8
132 J 35019 X	4.14	SMA-50S AG 6199 BR	1.9	SSMA-50S JN 0302 BR	2.6
132 J 35029 X	4.14	SMA-50S AG 6299 BR	1.10	SSMA-50S JN 5899 BR	2.7
132 J 35519 X	4.15	SMA-50S AG 6399 BR	1.10	SSMA-50S JN 6299 BR	2.10
360 X 10219 X	8.2	SMA-50S AG 6599 BR	1.11	SSMA-50S JN 6399 BR	2.10
360 X 10319 X	8.2	SMA-50S AN 0302 BR	1.6	SSMA-50S JN 6799 BR	2.7
360 X 10329 X	8.3	SMA-50S AN 0304 BR	1.6	SSMA-50S JN 6899 BR	2.8
360 X 10409 X	8.2	SMA-50S AN 5702 BR	1.7		
360 X 10519 X	8.4	SMA-50S AN 5704 BR	1.7		
360 X 11019 X	8.4	SMA-50S AN 5899 BR	1.8		
360 X 11029 X	8.4	SMA-50S AN 5999 BR	1.8		
360 X 11039 X	8.4	SMA-50S AN 6099 BR	1.9		
360 X 11049 X	8.3	SMA-50S AN 6199 BR	1.9		
360 X 11059 X	8.3	SMA-50S AN 6299 BR	1.10		
360 X 12199 X	8.5	SMA-50S AN 6399 BR	1.10		
360 X 12209 X	8.5	SMA-50S AN 6599 BR	1.11		
360 X 20029 X	8.2	SMA-50S JG 0112 BR	1.4		
360 X 20049 X	8.3	SMA-50S JG 0113 BR	1.4		



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All of our manufacturing locations, sales offices and representatives worldwide are listed and are easy accessible.