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Ростов-на-Дону (863)308-18-15
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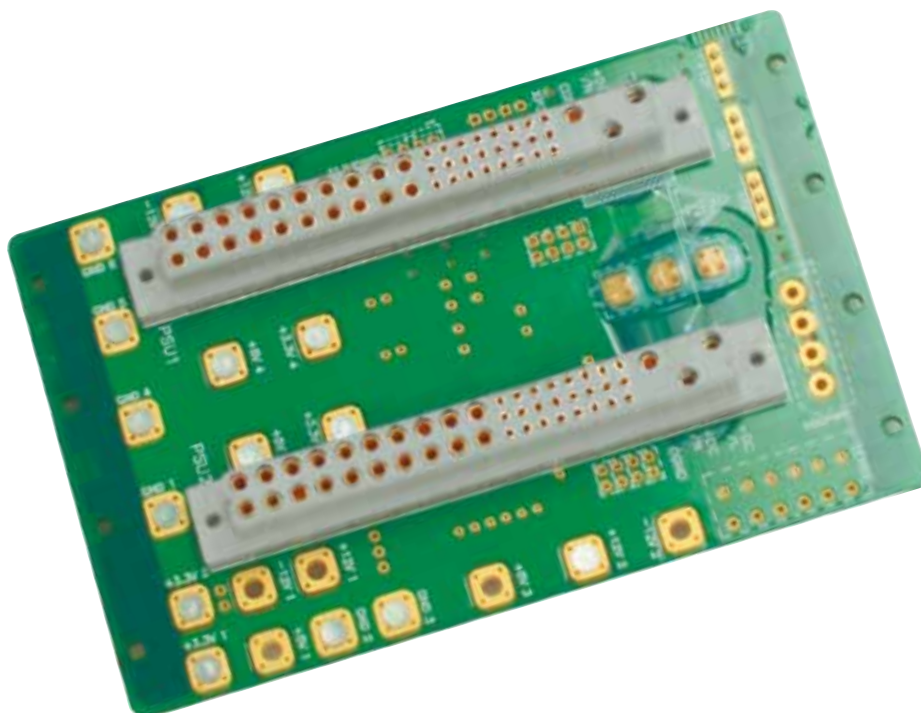
Единый адрес: ccn@nt-rt.ru | <http://www.conec.nt-rt.ru>

SECTION 3

COMPACT PCI CONNECTORS

CONEC is a member of the PICMG Group and has developed the 47 positions power connector types, adhering to the specifications outlined in PICMG 2.11 R1.0.

Telecom, datacom, computer, medical, instrumentation and industrial control manufacturers are implementing the Compact PCI Bus structure. 'PCI' as it is known today stands for: Peripheral Component Interconnect.



**Product features:**

- Male and female connectors
- Through hole and press fit types
- Precision machined contacts/stamped contacts
- Stamped flexible press fit design
- Selective assembly on request
- Premating and Sequential mating
- Mounting screws for PCB are available

CompactPCI[®]



TECHNICAL DATA

Materials	
Insulator	Glass filled plastic, UL 94V-0
Contacts	
Materials	Copper alloy
Plating for precision machined contacts	Gold flash over nickel/0,8 µm gold over nickel (press fit design tin over nickel)
Plating for stamped and formed contacts	Gold flash over nickel/selective 0,8 µm gold over nickel
Electrical Characteristics	
Contact Current Ratings, per UL 1977, (see temperature rise curve for details)	
CompactPCI 38 positions	
Size 16 Power Contacts:	
Positions 36, 37 and 38	40 A continuous, all contacts under load
Positions 1 to 20	28 A continuous, all contacts under load
Size 20 Signal Contacts	5 A nominal rating
CompactPCI 47 positions	
Size 16 power contacts:	
Positions 45, 46 and 47	40 A continuous, all contacts under load
Positions 1 to 20	28 A continuous, all contacts under load
Size 22 signal contacts	3 A nominal rating
Initial contact resistance (termination to termination)	
Size 16 power contacts	0.0007 Ω maximum
Size 20 signal contacts	0.004 Ω maximum
Size 22 signal contacts	0.004 Ω maximum
Insulation Resistance	5 G Ω per IEC 512-2 Test 3a method A
Voltage Proof	
CompactPCI 38 positions	
Contacts 36, 37 and 38	3000 V r.m.s.
Contacts 1 to 20	1500 V r.m.s.
Contacts 21 to 35	1000 V r.m.s.
CompactPCI 47 positions	
Size 16 power contacts:	
Contacts 45, 46 and 47	3000 V r.m.s.
Contacts 1 to 20	1500 V r.m.s.
Contacts 21 to 44	1000 V r.m.s.
Creepage and clearance distance (minimum)	
CompactPCI 38 positions	
Contact 38 to 36	3.2 mm
Contact 37 to contact 36	3.2 mm
Contact 38 to signal contacts	6.4 mm
Contact 37 to signal contacts	6.4 mm
Contact 38 to contact 37	2.5 mm
Contact 36 to signal contacts	2.0 mm
CompactPCI 47 positions	
Contact 47 to contact 45	3.2 mm
Contact 46 to contact 45	3.2 mm
Contact 47 to signal contacts	6.4 mm
Contact 46 to signal contacts	6.4 mm
Contact 47 to contact 46	2.5 mm
Contact 45 to signal contacts	2.0 mm

TECHNICAL DATA

Working voltage	
CompactPCI 38 positions	
Contacts 36, 37 and 38	1000 V r.m.s.
Contacts 1 to 20	500 V r.m.s.
Contacts 21 to 35	333 V r.m.s.
CompactPCI 47 positions	
Contacts 45, 46 and 47	1000 V r.m.s.
Contacts 1 to 20	500 V r.m.s.
Contacts 21 to 44	333 V r.m.s.
Mechanical Characteristics	
Blind mating system	Male and female connector bodies provide "lead-in" for 1.3 mm diametral misalignment
Polarization	Provided by connector body design
Crimp contacts	Install contact from termination side; release from mating side
Removable contact retention in connector body	
Size 16 contacts	67 N
Fixed contact retention in connector body	
Size 16 contacts	45 N
Size 20 and 22 contacts	27 N
Resistance to solder heat	260°C for 10 seconds duration per IEC 512-6, Test 12e, 25-watt soldering iron for other application contact factory
Sequential contact mating system	
CompactPCI 38 positions	First mate contact 36 and last mate contact positions 22, 25, and 28
CompactPCI 47 positions	First mate contact 45 and last mate contact position 27
Safety requirements	
CompactPCI 38 positions	Following size 16 contacts are recessed 5 mm below the face of the female insulator for safety requirements
CompactPCI 47 positions	Contact positions 37 and 38 Contact positions 46 and 47
Compliant terminations press fit	Size 16, 20 and 22 contacts are available with compliant press fit compliant contact terminations
Printed board and panel mounting	Mounting holes provided in connector body for both printed board and panel mouting self-tapping screws are available
Mechanical operations	250 cycles
Working temperature	-55°C to +125°C

Technical alterations are subjects to change without notice.

TECHNICAL DATA

Materials	
Insulator	Glass filled plastic, UL 94V-0
Contacts	
Materials	Copper alloy
Plating for precision machined contacts	Gold flash over nickel/0,8 µm gold over nickel (press fit termination tin over nickel)
Plating for stamped and formed contacts	Gold flash over nickel/selective 0,8 µm gold over nickel
Electrical Characteristics	
Contact Current Ratings, per UL 1977	
Mini Power 24 positions	
Size 16 power contacts:	
Positions 22, 23 and 24	45 A continuous, all contacts under load
Positions 1 to 6	35 A continuous, all contacts under load
Size 20 Signal Contacts	3 A nominal rating
Mini Power 26 positions	
Size 16 power contacts:	
Positions 22-26	34 A continuous, all contacts under load
Positions 1 to 6	34 A continuous, all contacts under load
Size 22 signal contacts	3 A nominal rating
Initial contact resistance (termination to termination)	
Size 16 power contacts	0.0007 Ω maximum
Size 20 signal contacts	0.004 Ω maximum
Size 22 signal contacts	0.004 Ω maximum
Insulation Resistance	5 G Ω per IEC 512-2 Test 3a
Voltage Proof	
Mini Power 24 positions	
Contacts 22, 23 and 24	3000 V r.m.s.
Contacts 1 to 6	1500 V r.m.s.
Contacts 2 to 21	1000 V r.m.s.
Mini Power 26 positions	
Size 16 power contacts:	
Contacts 1 to 6	1500 V r.m.s.
Contacts 7 to 21	1000 V r.m.s.
Creepage and clearance distance (minimum)	
Mini Power 24 positions	
Contact 24 to contact 22	3.2 mm
Contact 23 to contact 22	3.2 mm
Contact 24 to contact 23	2.5 mm
Contact 24 to signal contacts	6.4 mm
Contact 23 to signal contacts	6.4 mm
Contact 22 to signal contacts	2.0 mm
Mini Power 26 positions	
Contact 22 to signal contacts	2.0 mm

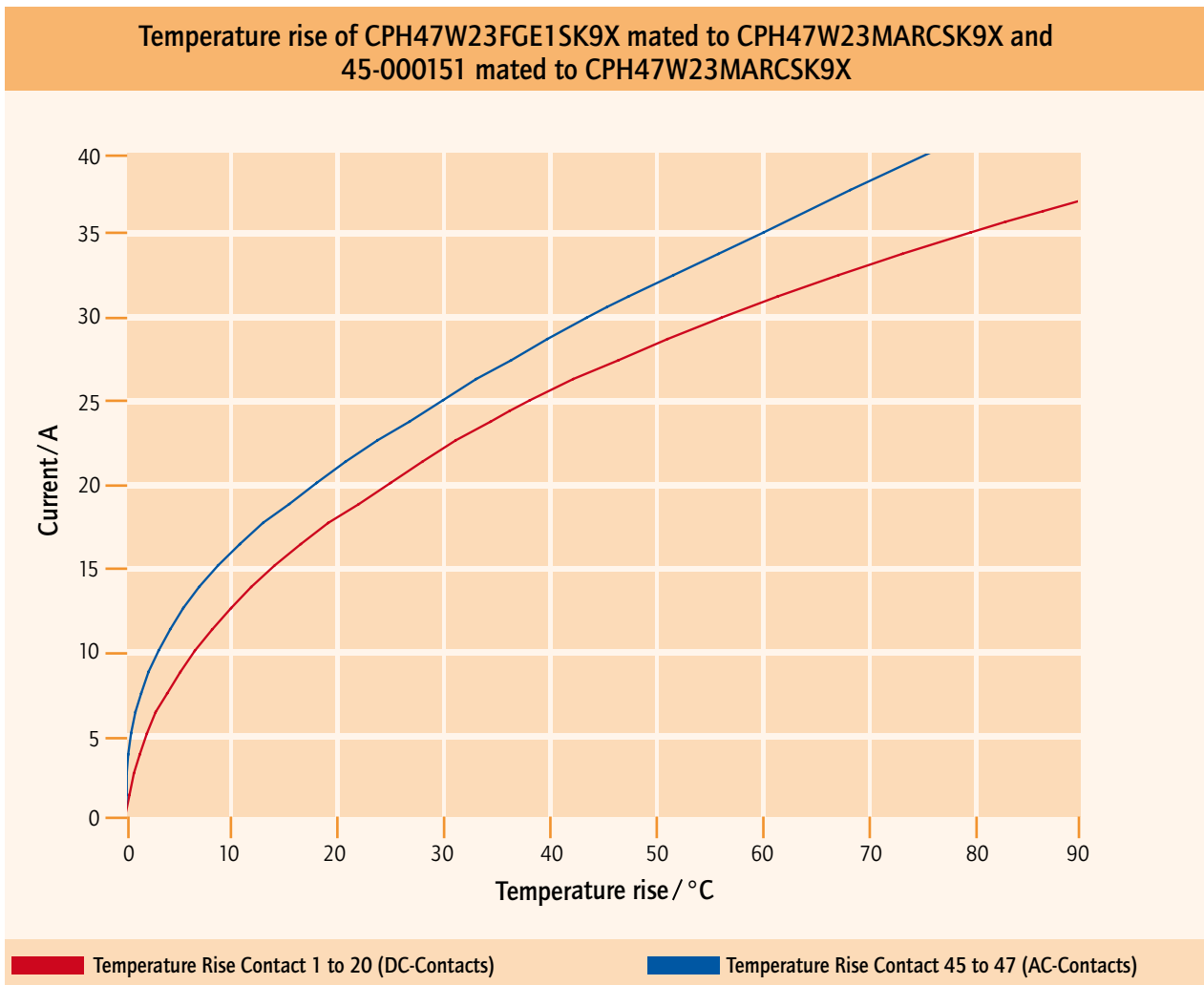
Technical alterations are subjects to change without notice.

TECHNICAL DATA

Working voltage	
Mini Power 24 positions	
Contacts 22, 23 and 24	1000 V r.m.s.
Contacts 1 to 6	500 V r.m.s.
Contacts 7 to 21	333 V r.m.s.
Mini Power 26 positions	
Contacts 1 to 6 and 22 to 26	500 V r.m.s.
Contacts 7 to 21	333 V r.m.s.
Mechanical Characteristics	
Blind mating system	Male and female connector bodies provide "lead-in" for 1.3 mm diametral misalignment
Polarization	Provided by connector body design
Resistance to solder heat	260°C for 10 seconds duration per IEC 512-6, Test 12e, 25-watt soldering iron for other application contact factory
Sequential contact mating system	
Mini Power 24 positions	First mate contact 22 and last mate contact position 7
Mini Power 26 positions	Last mate contact position 7
Safety requirements	Following size 16 contacts are recessed 5 mm below the face of the female insulator for safety requirements
Mini Power 24 positions	Contact positions 23 and 24
Compliant terminations press fit	Size 16 and 22 contacts are available with compliant contact terminations
Printed board and panel mounting	Mounting holes provided in connector body for both printed board and panel mouting self-tapping screws are available
Mechanical operations	250 cycles
Working temperature	-55°C to +125°C

Technical alterations are subjects to change without notice.

DIAGRAM



CONVERSION TABLE

μm 1/1000 mm	μinch 1/1000 inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
0,10	4	3,30	.130	10,16	.400	19,50	.768	30,90	1.217	49,50	1.949
0,20	8	3,40	.134	10,26	.402	19,70	.776	31,00	1.220	49,90	1.965
0,25	10	3,50	.138	10,36	.406	19,80	.780	31,20	1.228	50,10	1.972
0,30	12	3,60	.142	10,56	.413	19,90	.783	31,50	1.240	50,30	1.980
0,50	20	3,70	.146	10,66	.417	20,00	.787	31,70	1.248	50,50	1.988
0,70	28	3,80	.150	10,76	.421	20,10	.791	32,00	1.260	50,70	1.996
0,75	30	3,81	.150	11,00	.433	20,30	.799	32,20	1.268	50,80	2.000
0,80	32	3,90	.154	11,20	.441	20,32	.800	32,30	1.272	51,40	2.024
1,00	39	4,00	.158	11,40	.449	20,50	.807	32,50	1.280	51,50	2.028
1,27	50	4,10	.161	11,50	.453	21,00	.827	32,80	1.291	52,00	2.047
2,00	79	4,20	.165	11,60	.457	21,10	.831	33,00	1.299	52,30	2.059
2,50	98	4,30	.169	11,90	.469	21,70	.854	33,10	1.303	52,80	2.079
3,00	118	4,50	.177	12,00	.472	22,00	.866	33,30	1.311	53,00	2.087
4,00	157	4,70	.185	12,20	.480	22,10	.870	33,80	1.331	53,20	2.095
5,00	197	4,90	.193	12,30	.484	22,20	.874	34,00	1.339	53,80	2.118
mm	inch	5,00	.197	12,40	.488	22,30	.878	34,20	1.346	54,00	2.126
0,10	.004	5,08	.200	12,50	.492	22,40	.882	34,40	1.354	54,20	2.134
0,20	.008	5,10	.201	12,70	.500	22,50	.886	35,00	1.378	54,90	2.161
0,25	.012	5,20	.205	12,90	.508	22,60	.890	35,40	1.394	55,00	2.165
0,35	.014	5,30	.209	13,00	.512	22,80	.898	35,50	1.398	55,40	2.181
0,40	.016	5,40	.213	13,10	.516	22,86	.900	35,56	1.400	55,70	2.193
0,45	.018	5,50	.217	13,20	.520	22,90	.902	35,60	1.402	56,60	2.228
0,50	.020	5,60	.220	13,50	.532	23,00	.906	36,00	1.417	57,40	2.260
0,55	.022	5,70	.224	13,60	.535	23,10	.909	36,50	1.437	57,80	2.276
0,60	.024	5,80	.228	13,70	.539	23,30	.917	36,60	1.441	57,90	2.280
0,64	.025	6,00	.236	13,90	.547	23,50	.925	36,70	1.445	58,42	2.300
0,65	.026	6,10	.240	14,00	.551	24,00	.945	37,00	1.457	59,00	2.323
0,70	.028	6,40	.252	14,30	.563	24,30	.957	37,30	1.469	59,20	2.331
0,75	.030	6,50	.256	14,40	.567	24,60	.969	37,50	1.476	59,80	2.354
0,80	.032	6,60	.260	14,50	.571	24,90	.980	37,60	1.480	59,90	2.358
0,85	.034	6,70	.264	14,70	.579	25,00	.984	37,70	1.484	60,00	2.362
0,90	.035	6,80	.268	14,80	.583	25,10	.998	37,90	1.492	60,96	2.400
1,00	.039	6,90	.272	14,90	.587	25,40	1.000	38,00	1.496	61,10	2.406
1,20	.047	7,00	.276	14,98	.590	25,60	1.008	38,10	1.500	62,00	2.441
1,25	.049	7,10	.280	15,00	.591	25,90	1.020	39,00	1.535	63,00	2.480
1,27	.050	7,20	.283	15,20	.598	26,00	1.024	39,20	1.543	63,50	2.500
1,30	.051	7,40	.291	15,24	.600	26,30	1.035	39,30	1.547	64,00	2.520
1,35	.053	7,50	.295	15,40	.606	26,60	1.047	39,90	1.571	65,00	2.560
1,40	.055	7,60	.299	15,50	.610	26,70	1.051	40,00	1.575	67,00	2.638
1,45	.057	7,62	.300	15,60	.614	27,00	1.063	40,30	1.587	68,00	2.677
1,50	.059	7,70	.303	15,90	.626	27,20	1.071	40,40	1.591	69,00	2.717
1,60	.063	7,80	.307	16,00	.630	27,40	1.079	40,60	1.598	70,00	2.756
1,70	.067	7,98	.314	16,20	.638	27,50	1.093	41,00	1.614	71,00	2.795
1,80	.071	8,00	.315	16,50	.650	27,90	1.098	41,60	1.638	74,00	2.913
1,85	.073	8,18	.318	16,60	.654	27,94	1.100	42,70	1.681	75,00	2.953
1,90	.075	8,20	.323	16,80	.661	28,00	1.102	43,18	1.700	76,20	3.000
2,00	.079	8,30	.327	17,00	.669	28,20	1.110	44,20	1.740	77,00	3.032
2,10	.083	8,40	.331	17,20	.677	28,50	1.122	44,80	1.764	78,74	3.100
2,20	.087	8,50	.335	17,30	.681	28,70	1.130	45,80	1.803	80,00	3.150
2,30	.091	8,60	.339	17,50	.689	29,00	1.142	46,30	1.823	81,28	3.200
2,40	.095	8,90	.350	17,60	.693	29,20	1.150	46,70	1.839	84,00	3.307
2,50	.098	9,00	.354	17,70	.697	29,40	1.158	47,00	1.850	85,00	3.346
2,54	.100	9,10	.358	17,78	.700	29,50	1.161	47,20	1.858	86,36	3.400
2,60	.102	9,20	.362	17,80	.701	29,70	1.169	47,30	1.862	88,90	3.500
2,70	.106	9,30	.366	17,90	.705	29,90	1.177	47,50	1.870	90,00	3.543
2,80	.110	9,40	.370	18,00	.709	30,00	1.181	47,80	1.882	91,44	3.600
2,84	.112	9,50	.374	18,10	.713	30,20	1.189	48,00	1.890	94,00	3.701
2,90	.114	9,60	.378	18,30	.721	30,40	1.197	48,10	1.894	95,00	3.740
3,00	.118	9,70	.382	18,60	.732	30,48	1.200	48,26	1.900	100,00	3.937
3,10	.122	9,90	.390	19,00	.748	30,50	1.201	48,80	1.921	110,00	4.331
3,20	.126	10,00	.395	19,20	.756	30,80	1.213	49,10	1.933	120,00	4.724

COMPACTPCI

Male connector – solder pin – angled – precision machined contacts – 38 positions



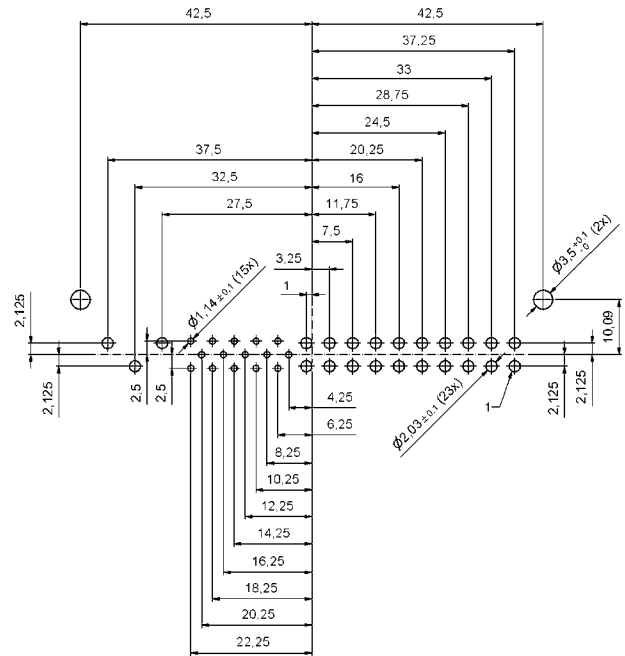
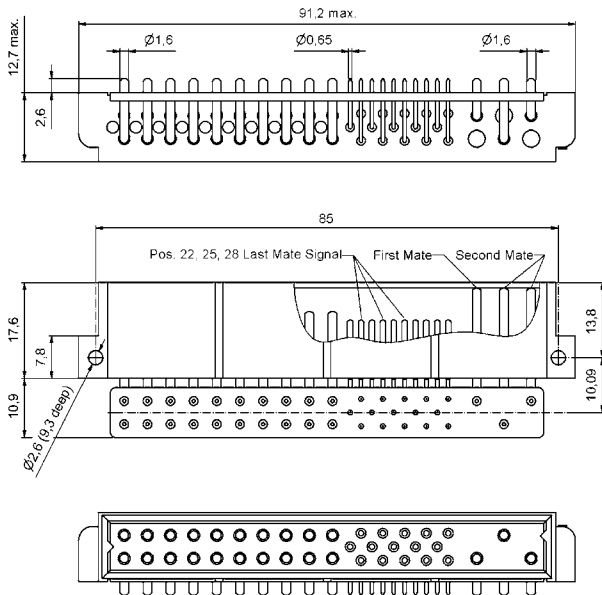
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DESCRIPTION

- Signal and power contacts
- 38 contacts, 15x signal / 23x power
- Sequential mating
- Contact plating quality class 1 or alternative quality class 3
- Special contact loadings possible on request

PRODUCT DRAWING

PCB-hole pattern



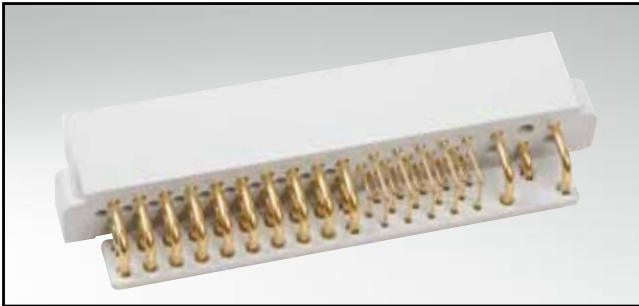
ORDER DATA

(Dim. = mm)

Number of positions	Contacts	Part number Quality class 3 (gold flash)	Part number Quality class 1 (0.8µm Au mating area)
38	15x signal / 23x power	CPH38 W23 MARASK9 X	CPH38 W23 MARCSK9 X

COMPACTPCI

Male connector – solder pin – angled – precision machined contacts – 38 positions

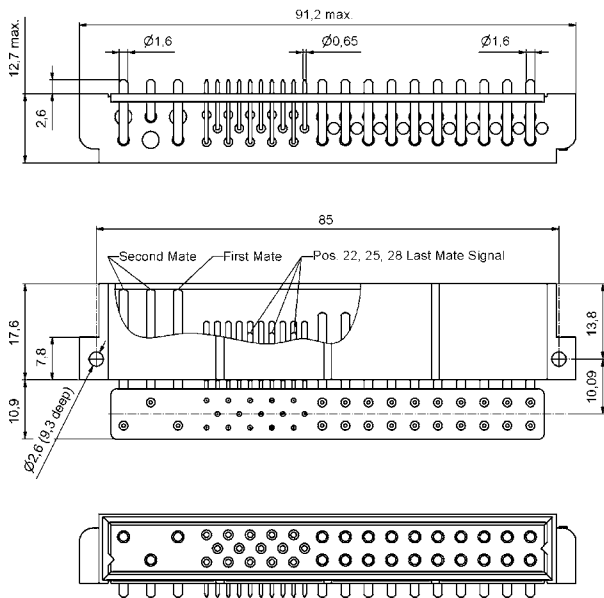


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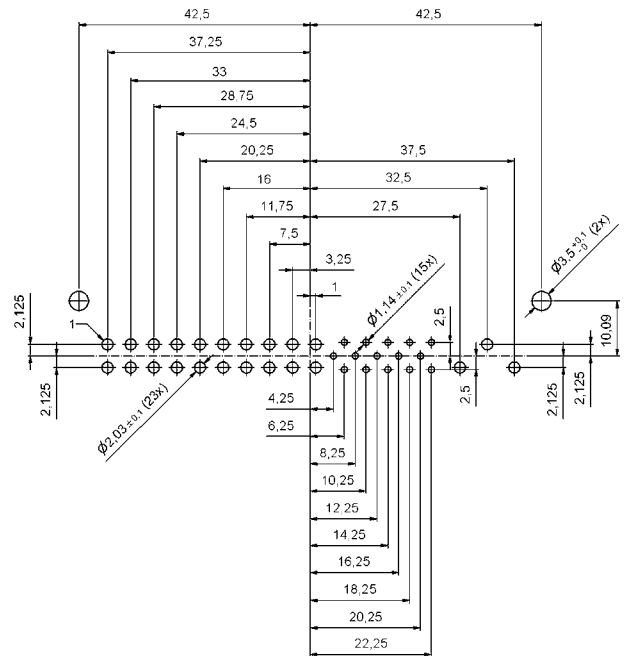
DESCRIPTION

- Signal and power contacts
- 38 contacts, 15x signal / 23x power
- Sequential mating
- Contact plating quality class 1 or alternative quality class 3
- **Inverted version**
- Special contact loadings possible on request

PRODUCT DRAWING



PCB-hole pattern



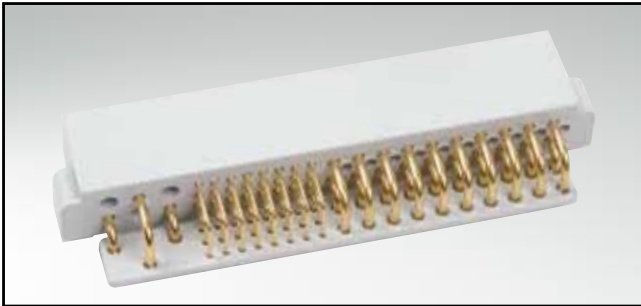
ORDER DATA

(Dim. = mm)

Number of positions	Contacts	Part number Quality class 3 (gold flash)	Part number Quality class 1 (0.8µm Au mating area)
38	15x signal / 23x power	CPH38 W23 MARARK9 X	CPH38 W23 MARCRK9 X

COMPACTPCI

Male connector – solder pin – angled – precision machined contacts – 47 positions

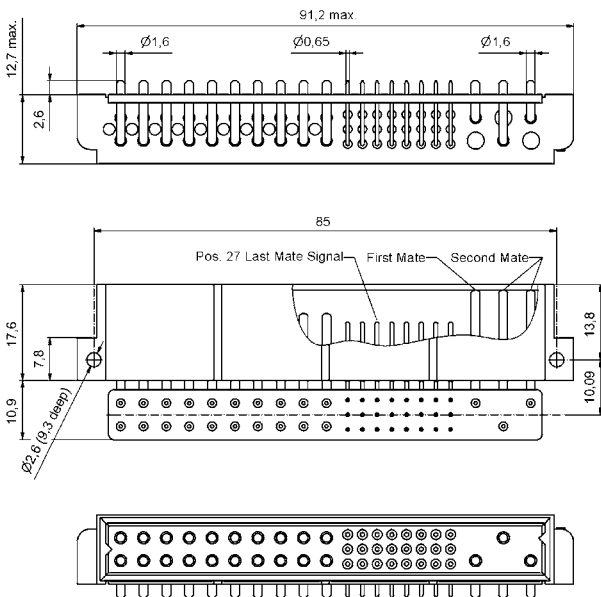


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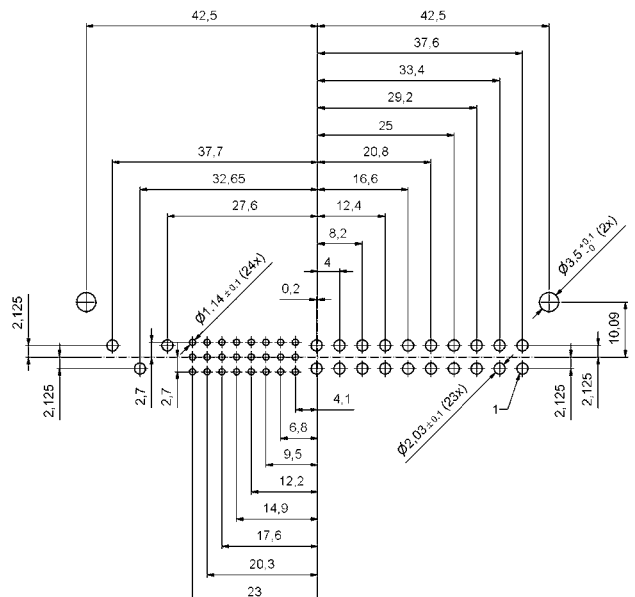
DESCRIPTION

- Signal and power contacts
- 47 contacts, 24x signal / 23x power
- Sequential mating
- Contact plating quality class 1 or alternative quality class 3
- Special contact loadings possible on request

PRODUCT DRAWING



PCB-hole pattern



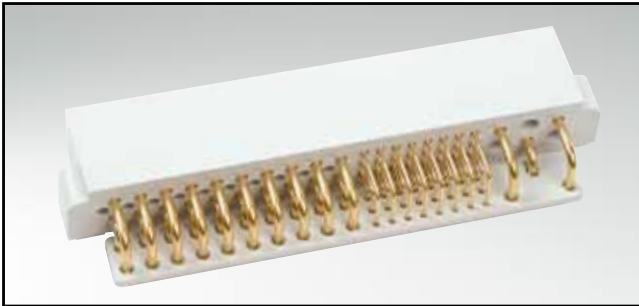
ORDER DATA

(Dim. = mm)

Number of positions	Contacts	Part number Quality class 3 (gold flash)	Part number Quality class 1 (0.8µm Au mating area)
47	24x signal / 23x power	CPH47 W23 MARASK9 X	CPH47 W23 MARCSK9 X

COMPACTPCI

Male connector – solder pin – angled – precision machined contacts – 47 positions

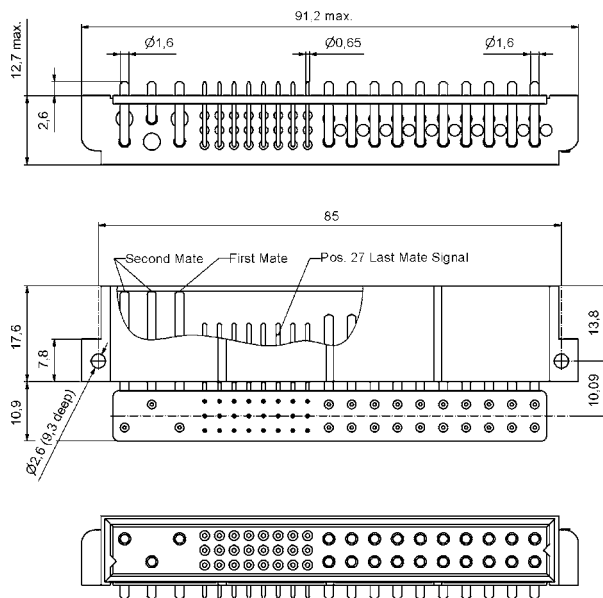


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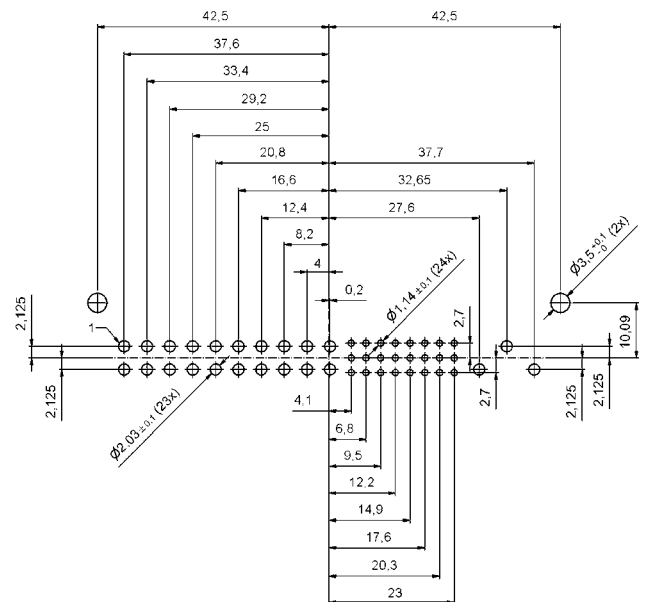
DESCRIPTION

- Signal and power contacts
- 47 contacts, 24x signal / 23x power
- Sequential mating
- Contact plating quality class 1 or alternative quality class 3
- **Inverted version**
- Special contact loadings possible on request

PRODUCT DRAWING



PCB-hole pattern



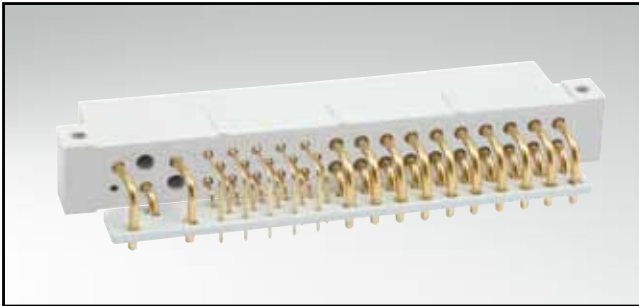
ORDER DATA

(Dim. = mm)

Number of positions	Contacts	Part number Quality class 3 (gold flash)	Part number Quality class 1 (0.8µm Au mating area)
47	24x signal / 23x power	CPH47 W23 MARARK9 X	CPH47 W23 MARCRK9 X

COMPACTPCI

Female connector – solder pin – angled – precision machined contacts – 38 positions

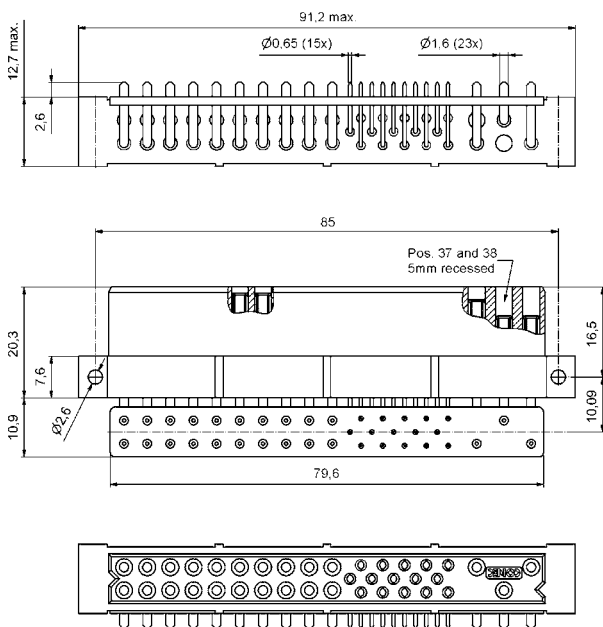


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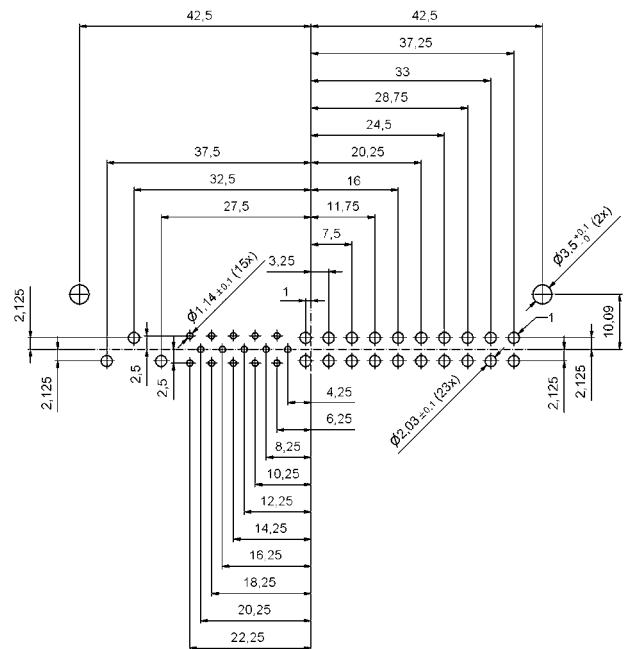
DESCRIPTION

- Signal and power contacts
- 38 contacts, 15x signal / 23x power
- Sequential mating
- Contact plating quality class 1 or alternative quality class 3
- **Inverted version**
- Special contact loadings possible on request

PRODUCT DRAWING



PCB-hole pattern



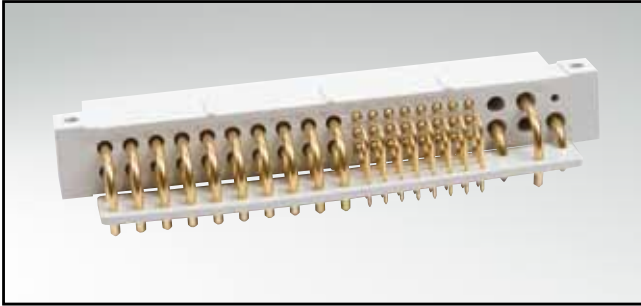
ORDER DATA

(Dim. = mm)

Number of positions	Contacts	Part number Quality class 3 (gold flash)	Part number Quality class 1 (0.8 μ m Au mating area)
38	15x signal / 23x power	CPH38 W23 FARARK9 X	CPH38 W23 FARCRK9 X

COMPACTPCI

Female connector – angled – precision machined contacts – 47 positions

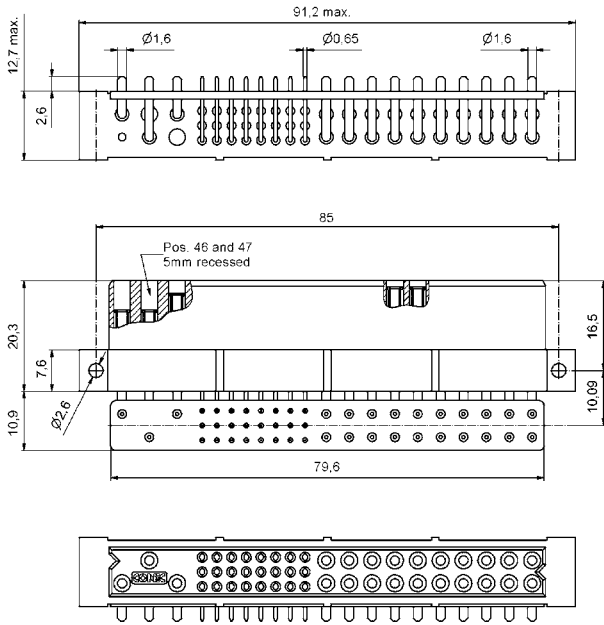


RoHS compliant – UL listed, File no.: E228329

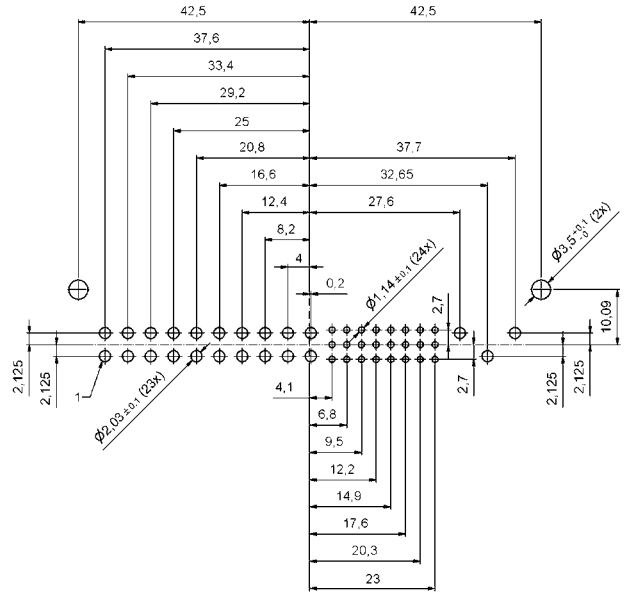
DESCRIPTION

- Signal and power contacts
- 47 contacts, 24x signal / 23x power
- Sequential mating
- Contact plating quality class 1 or alternative quality class 3
- Special contact loadings possible on request

PRODUCT DRAWING



PCB-hole pattern



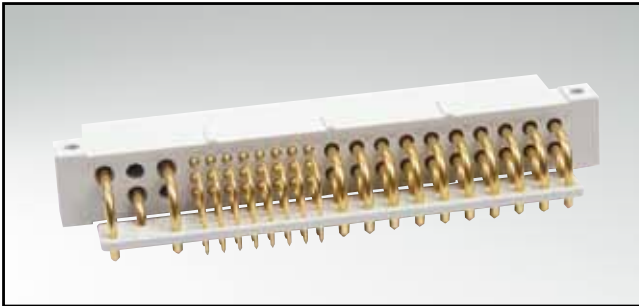
ORDER DATA

(Dim. = mm)

Number of positions	Contacts	Part number Quality class 3 (gold flash)	Part number Quality class 1 (0.8µm Au mating area)
47	24x signal / 23x power	CPH47 W23 FARASK9 X	CPH47 W23 FARCSK9 X

COMPACTPCI

Female connector – angled – precision machined contacts – 47 positions

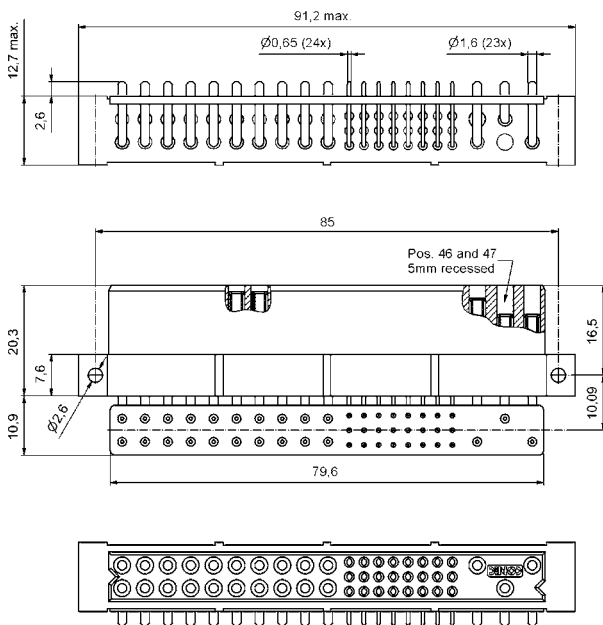


RoHS compliant – UL listed, File no.: E228329

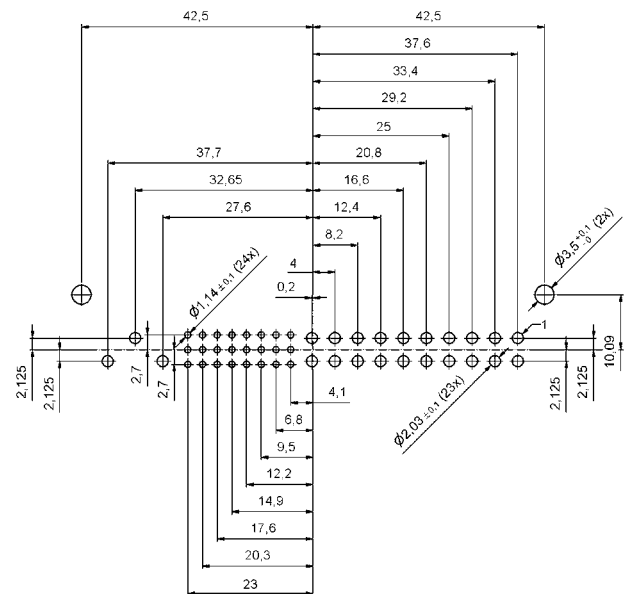
DESCRIPTION

- Signal and power contacts
- 47 contacts, 24x signal / 23x power
- Sequential mating
- Contact plating quality class 1 or alternative quality class 3
- **Inverted version**
- Special contact loadings possible on request

PRODUCT DRAWING



PCB-hole pattern



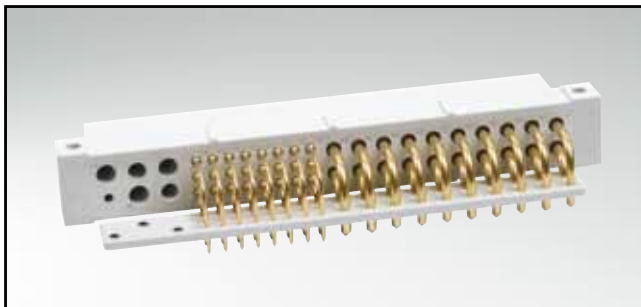
ORDER DATA

(Dim. = mm)

Number of positions	Contacts	Part number Quality class 3 (gold flash)	Part number Quality class 1 (0.8 μ m Au mating area)
47	24x signal / 23x power	CPH47 W23 FARARK9 X	CPH47 W23 FARCRK9 X

COMPACTPCI

Female connector – angled – precision machined contacts – 47 positions

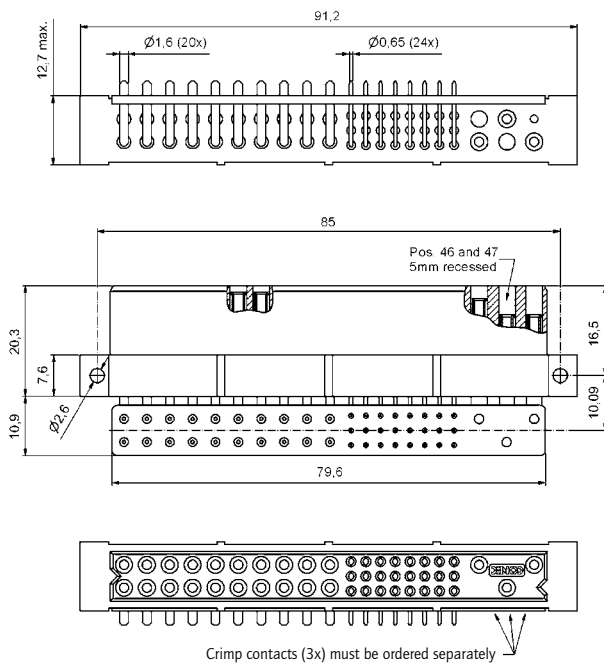


RoHS compliant – UL listed, File no.: E228329

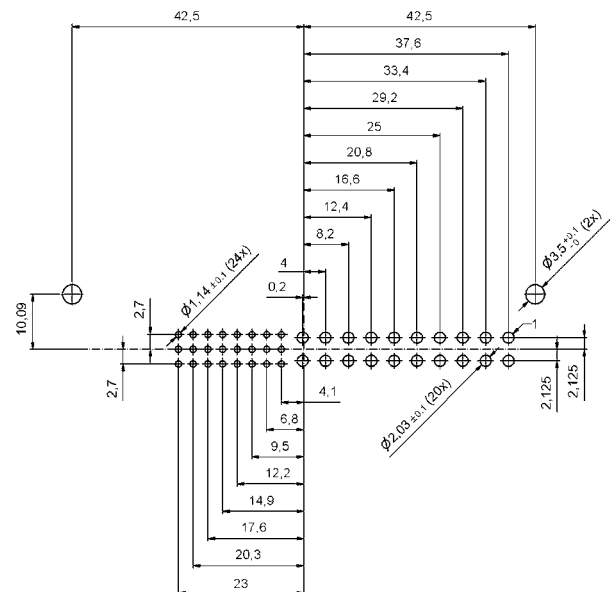
DESCRIPTION

- Signal and power contacts
- Selectively loaded with 24x signal / 20x power
- Position 45 to 47 for crimp contacts (page 3 | 36)
- Contact plating quality class 1 or alternative quality class 3
- **Inverted version**
- Special contact loadings possible on request

PRODUCT DRAWING



PCB-hole pattern



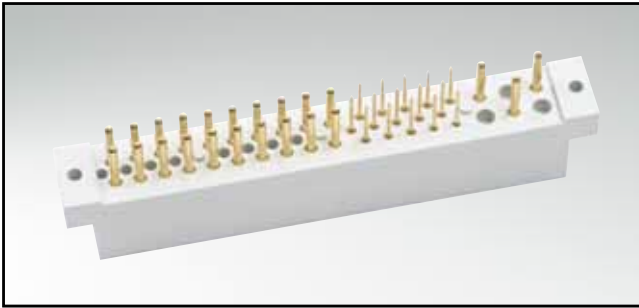
ORDER DATA

(Dim. = mm)

Number of positions	Contacts	Part number Quality class 3 (gold flash)	Part number Quality class 1 (0.8 μ m Au mating area)
47	24x signal / 20x power	CPH47 W23 FARARN9 X	CPH47 W23 FARCRN9 X

COMPACTPCI

Male connector – solder pin – straight – precision machined contacts – 38 positions



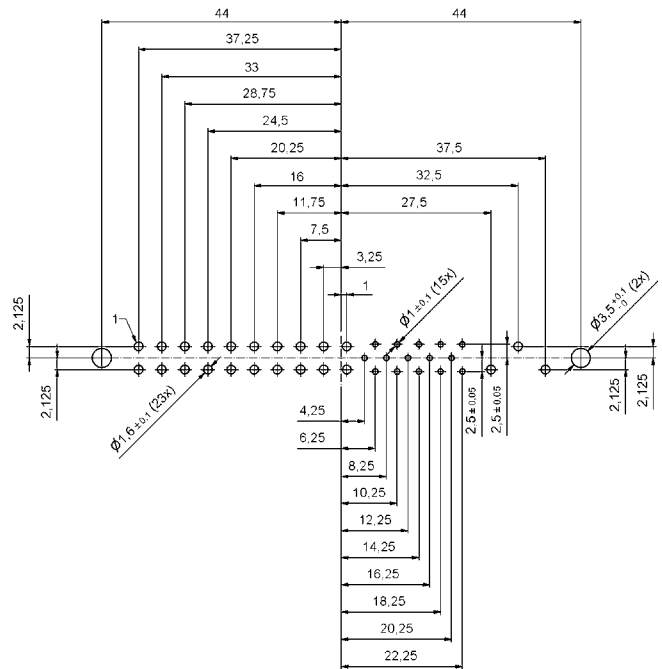
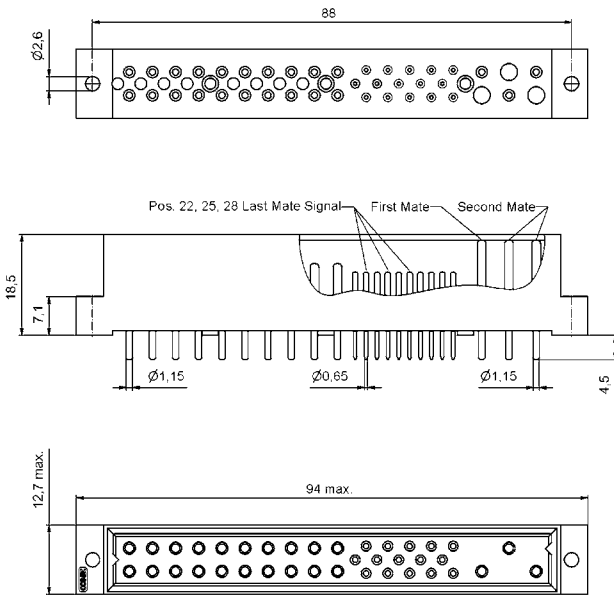
RoHS compliant – UL listed, File no.: E228329

DESCRIPTION

- Signal and power contacts
- 38 contacts, 15x signal / 23x power
- Sequential mating
- Contact plating quality class 1 or alternative quality class 3
- Special contact loadings possible on request

PRODUCT DRAWING

PCB-hole pattern



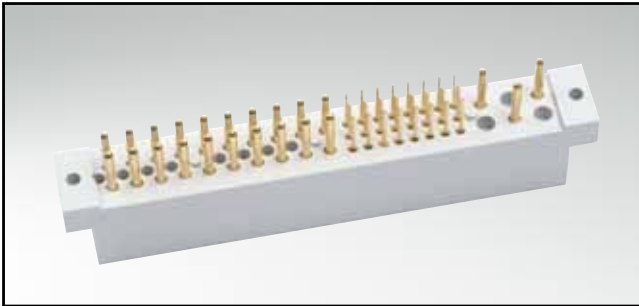
ORDER DATA

(Dim. = mm)

Number of positions	Contacts	Part number Quality class 3 (gold flash)	Part number Quality class 1 (0.8µm Au mating area)
38	15x signal / 23x power	CPH38 W23 MGRASK9 X	CPH38 W23 MGRCSK9 X

COMPACTPCI

Male connector – solder pin – straight – precision machined contacts – 47 positions



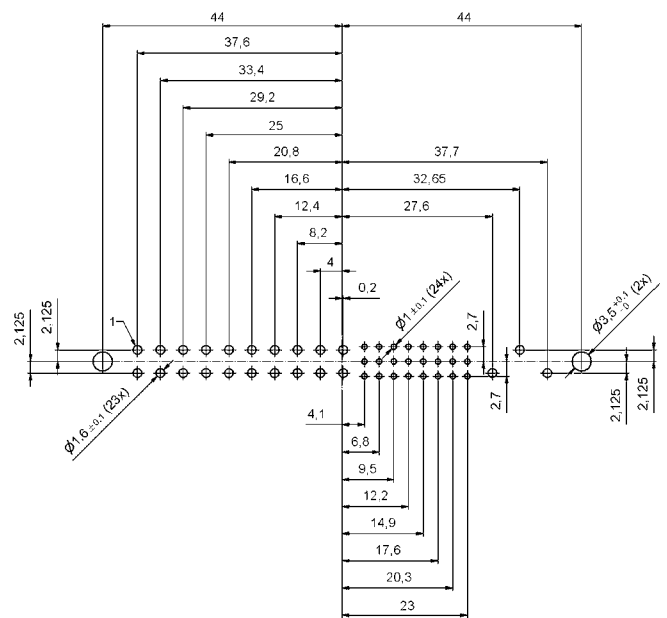
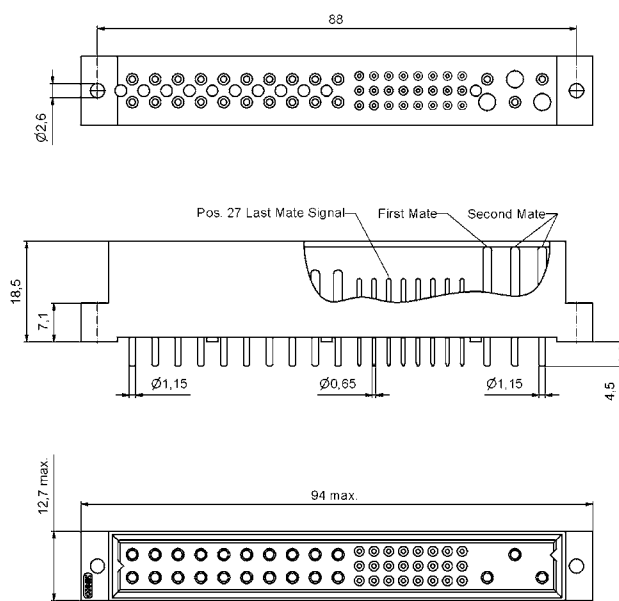
RoHS compliant – UL listed, File no.: E228329

DESCRIPTION

- Signal and power contacts
- 47 contacts, 24x signal / 23x power
- Sequential mating
- Contact plating quality class 1 or alternative quality class 3
- Special contact loadings possible on request

PRODUCT DRAWING

PCB-hole pattern



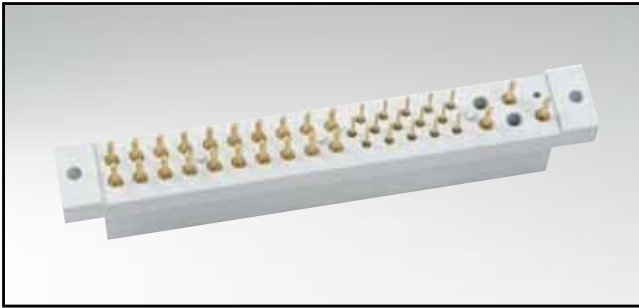
ORDER DATA

(Dim. = mm)

Number of positions	Contacts	Part number Quality class 3 (gold flash)	Part number Quality class 1 (0.8µm Au mating area)
47	24x signal / 23x power	CPH47 W23 MGRASK9 X	CPH47 W23 MGRCSK9 X

COMPACTPCI

Female connector – solder pin – straight – precision machined contacts – 38 positions



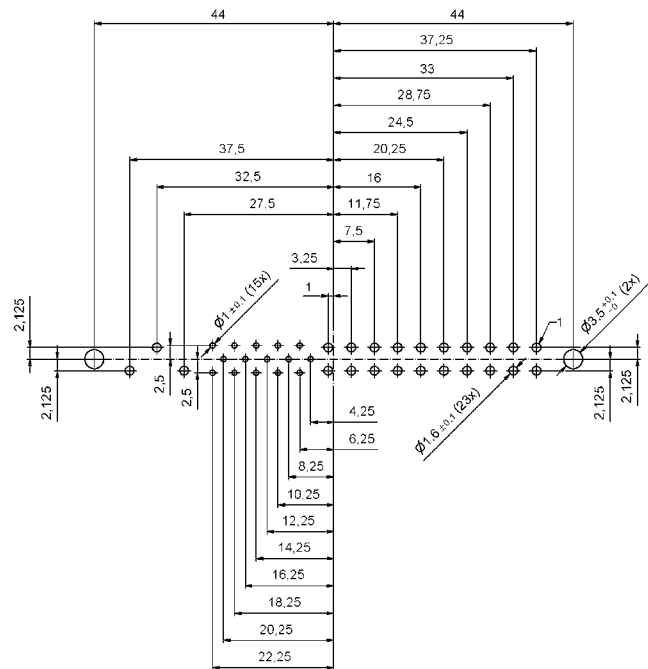
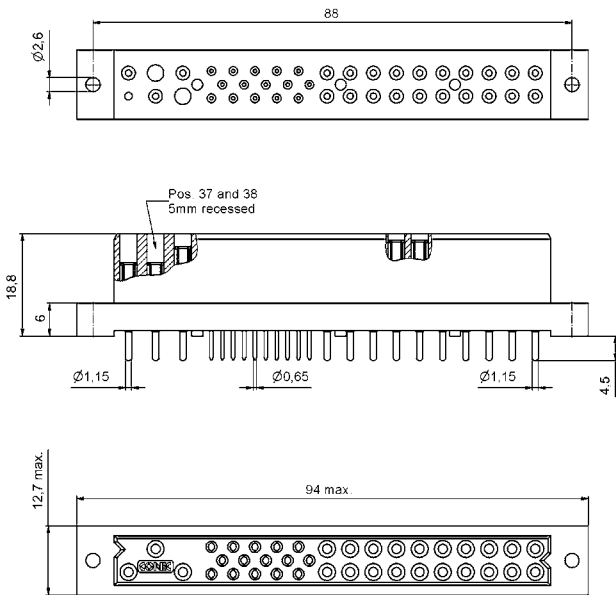
RoHS compliant – UL listed, File no.: E228329

DESCRIPTION

- Signal and power contacts
- 38 contacts, 15x signal / 23x power
- Sequential mating
- Contact plating quality class 1 or alternative quality class 3
- Special contact loadings possible on request

PRODUCT DRAWING

PCB-hole pattern



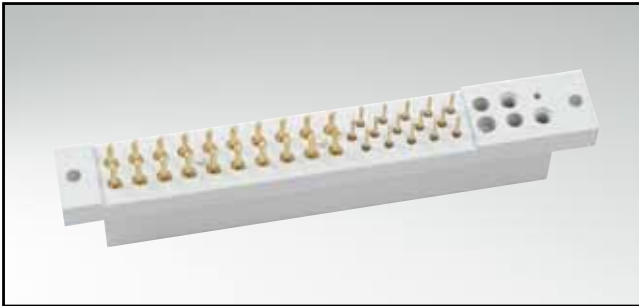
ORDER DATA

(Dim. = mm)

Number of positions	Contacts	Part number Quality class 3 (gold flash)	Part number Quality class 1 (0.8 μ m Au mating area)
38	15x signal / 23x power	CPH38 W23 FGRASK9 X	CPH38 W23 FGRCCK9 X

COMPACTPCI

Female connector – solder pin – straight – precision machined contacts – 38 positions



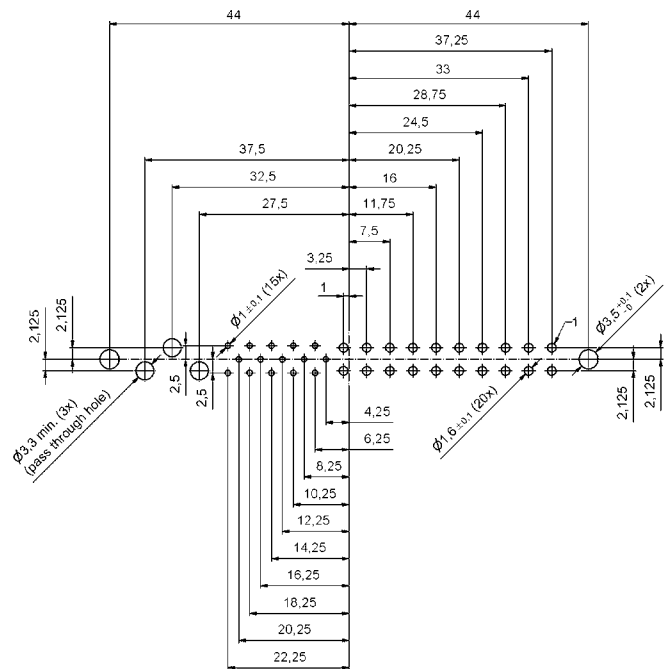
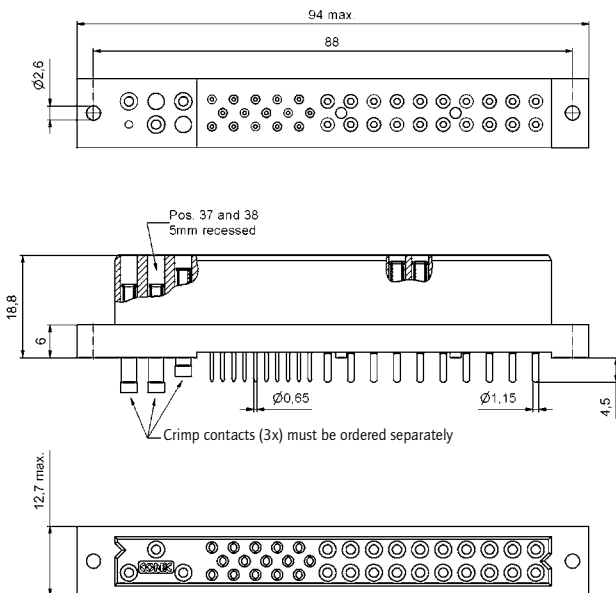
RoHS compliant – UL listed, File no.: E228329

DESCRIPTION

- Signal and power contacts
- Selectively loaded with 15x signal / 20x power
- Position 36 to 38 for crimp contacts (page 3 | 36)
- Contact plating quality class 1 or alternative quality class 3
- "Low Profile" area for crimp contacts
- Special contact loadings possible on request

PRODUCT DRAWING

PCB-hole pattern



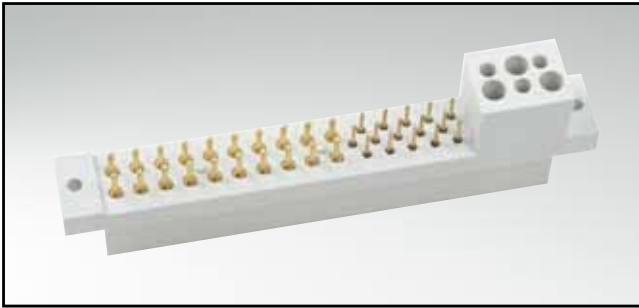
ORDER DATA

(Dim. = mm)

Number of positions	Contacts	Part number Quality class 3 (gold flash)	Part number Quality class 1 (0.8µm Au mating area)
38	15x signal / 20x power	CPH38 W23 FGRASN9 X	CPH38 W23 FGRCNS9 X

COMPACTPCI

Female connector – solder pin – straight – precision machined contacts – 38 positions

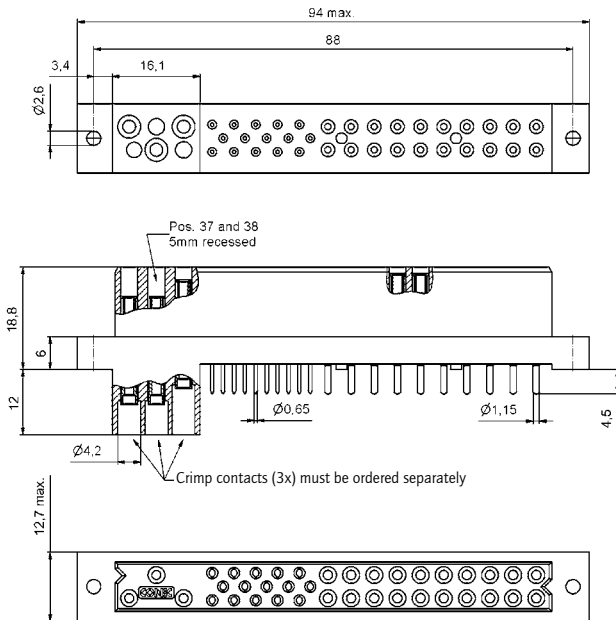


RoHS compliant – UL listed, File no.: E228329

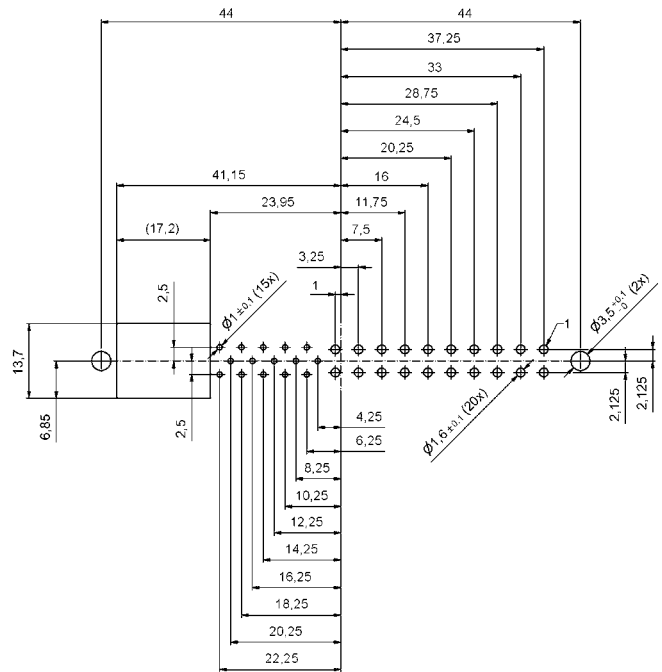
DESCRIPTION

- Signal and power contacts
- Selectively loaded with 15x signal / 20x power
- Position 36 to 38 for crimp contacts (page 3 | 36)
- Contact plating quality class 1 or alternative quality class 3
- "High Profile", insulation support for crimp contacts
- Special contact loadings possible on request

PRODUCT DRAWING



PCB-hole pattern



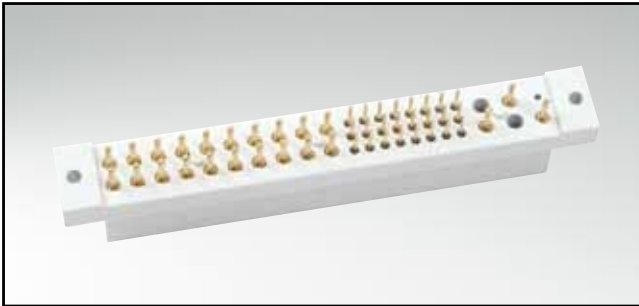
ORDER DATA

(Dim. = mm)

Number of positions	Contacts	Part number Quality class 3 (gold flash)	Part number Quality class 1 (0.8µm Au mating area)
38	15x signal / 20x power	CPH38 W23 FGRASH9 X	CPH38 W23 FGRC9H X

COMPACTPCI

Female connector – solder pin – straight – precision machined contacts – 47 positions

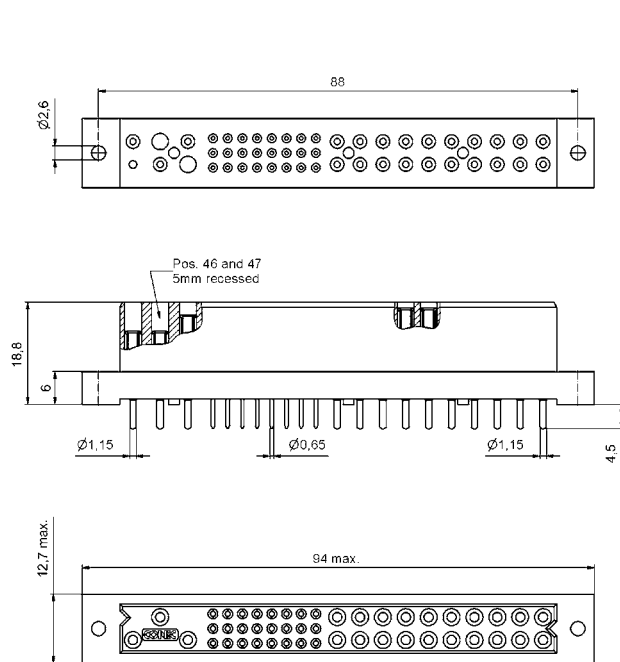


RoHS compliant – UL listed, File no.: E228329

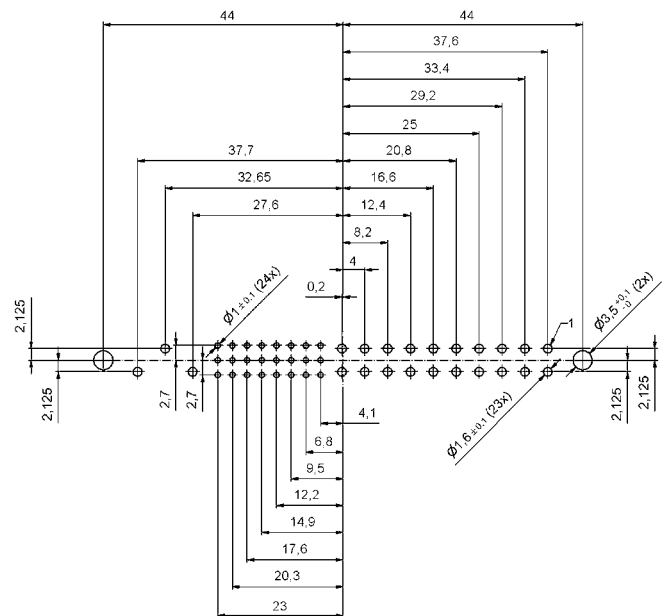
DESCRIPTION

- Signal and power contacts
- 47 contacts, 24x signal / 23x power
- Sequential mating
- Contact plating quality class 1 or alternative quality class 3
- Special contact loadings possible on request

PRODUCT DRAWING



PCB-hole pattern



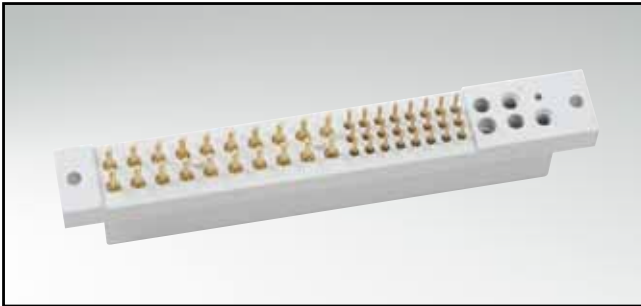
ORDER DATA

(Dim. = mm)

Number of positions	Contacts	Part number Quality class 3 (gold flash)	Part number Quality class 1 (0.8 μ m Au mating area)
47	24x signal / 23x power	CPH47 W23 FGRASK9 X	CPH47 W23 FGRCCK9 X

COMPACTPCI

Female connector – solder pin – straight – precision machined contacts – 47 positions



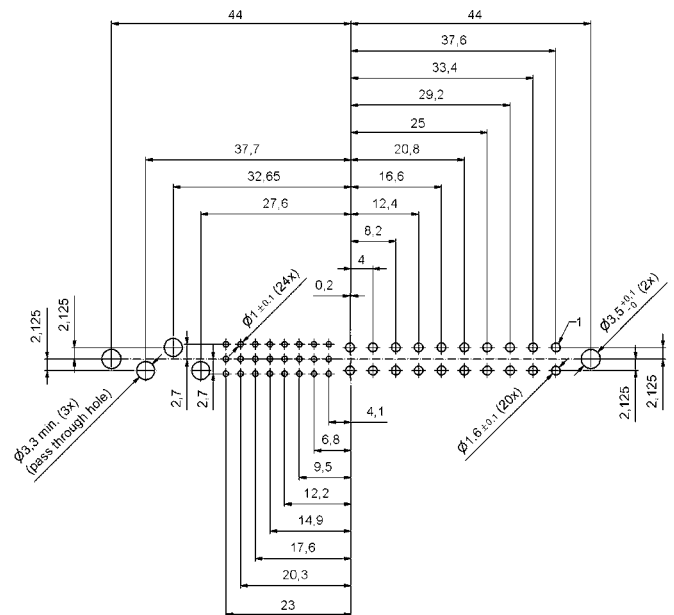
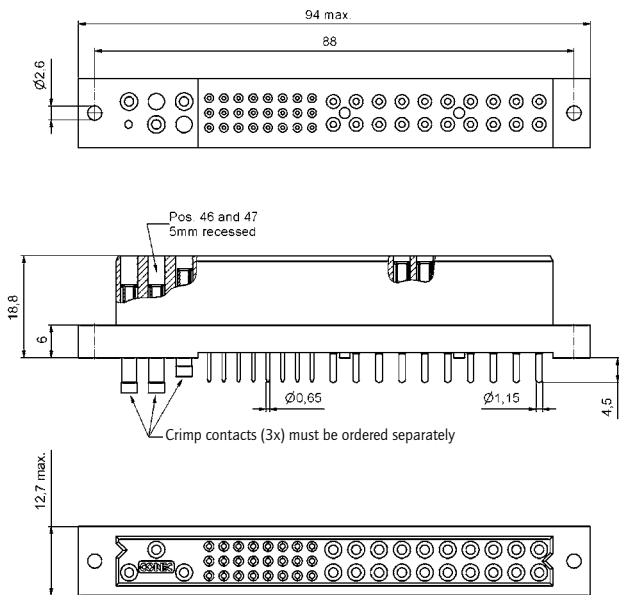
RoHS compliant – UL listed, File no.: E228329

DESCRIPTION

- Signal and power contacts
- Selectively loaded with 24x signal / 20x power
- Position 45 to 47 for crimp contacts (page 3 | 36)
- Contact plating quality class 1 or alternative quality class 3
- "Low Profile" area for crimp contacts
- Special contact loadings possible on request

PRODUCT DRAWING

PCB-hole pattern



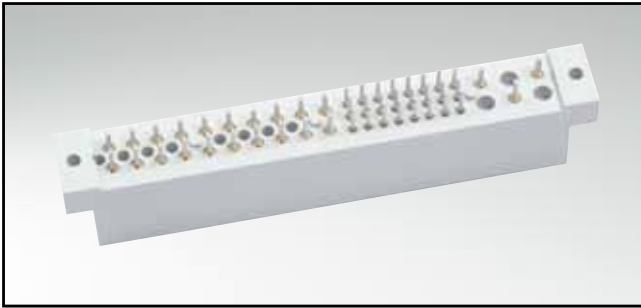
ORDER DATA

(Dim. = mm)

Number of positions	Contacts	Part number Quality class 3 (gold flash)	Part number Quality class 1 (0.8µm Au mating area)
47	24x signal / 20x power	CPH47 W23 FGRASN9 X	CPH47 W23 FGRCNS9 X

COMPACTPCI

Male connector – press fit – straight – precision machined contacts – 47 positions

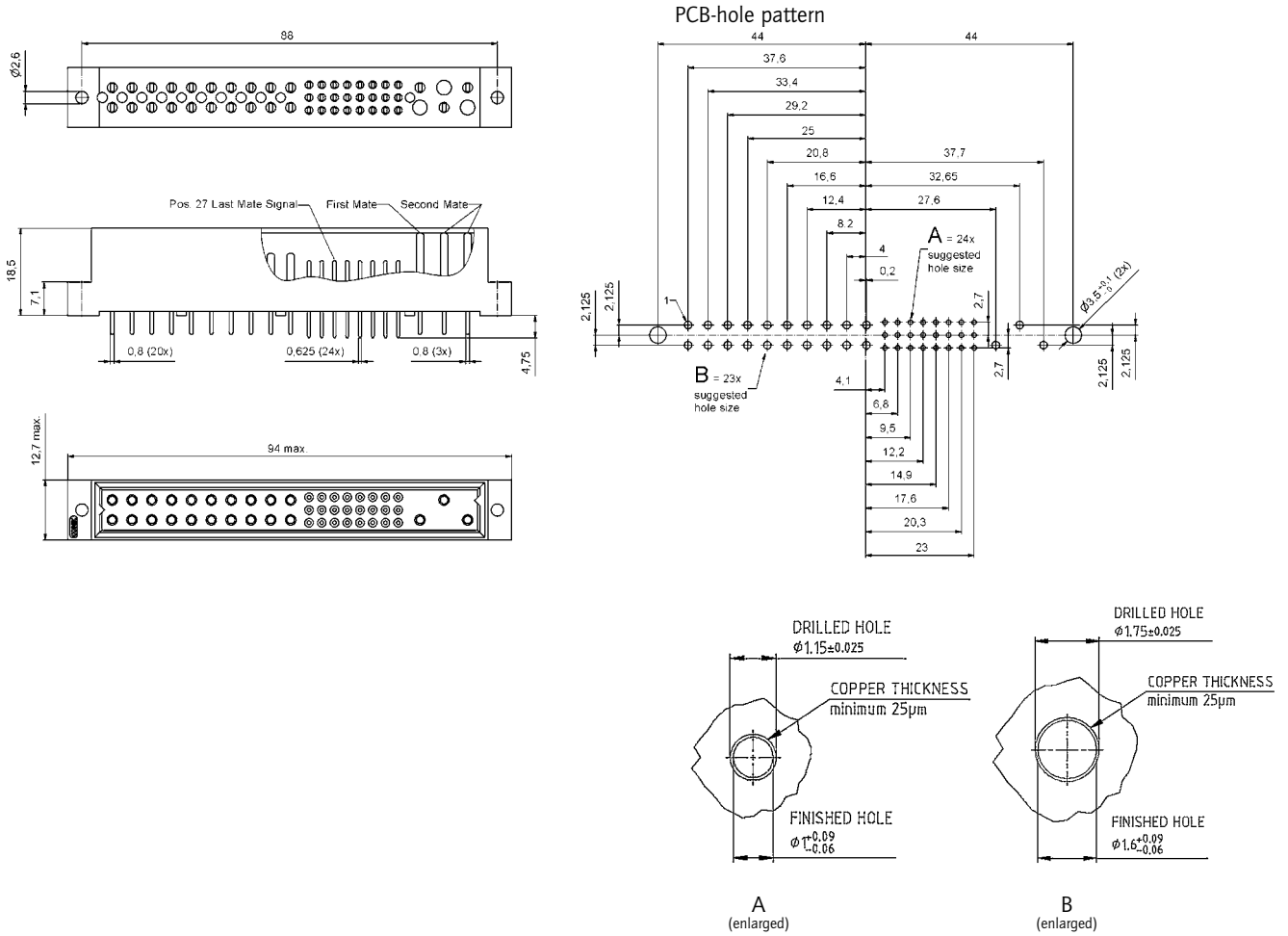


RoHS compliant – UL listed, File no.: E228329

DESCRIPTION

- Signal and power contacts
- 47 contacts, 24x signal / 23x power
- Sequential mating
- Eye of needle press fit design, tin plated
- Precision machined contact for the mating area
- Contact plating quality class 1 or alternative quality class 3
- Special contact loadings possible on request

PRODUCT DRAWING



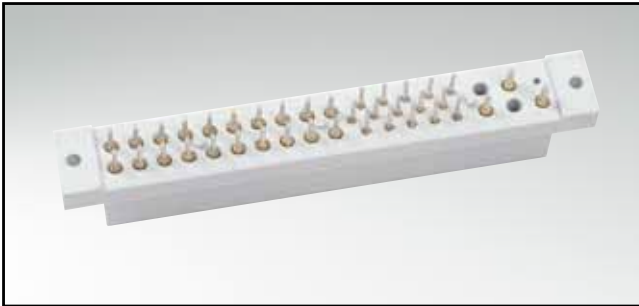
ORDER DATA

(Dim. = mm)

Number of positions	Contacts	Part number Quality class 3 (gold flash)	Part number Quality class 1 (0.8 μm Au mating area)
47	24x signal / 23x power	CPH47 W23 MGE3SK9 X	CPH47 W23 MGE1SK9 X

COMPACTPCI

Female connector – press fit – straight – precision machined contacts – 38 positions

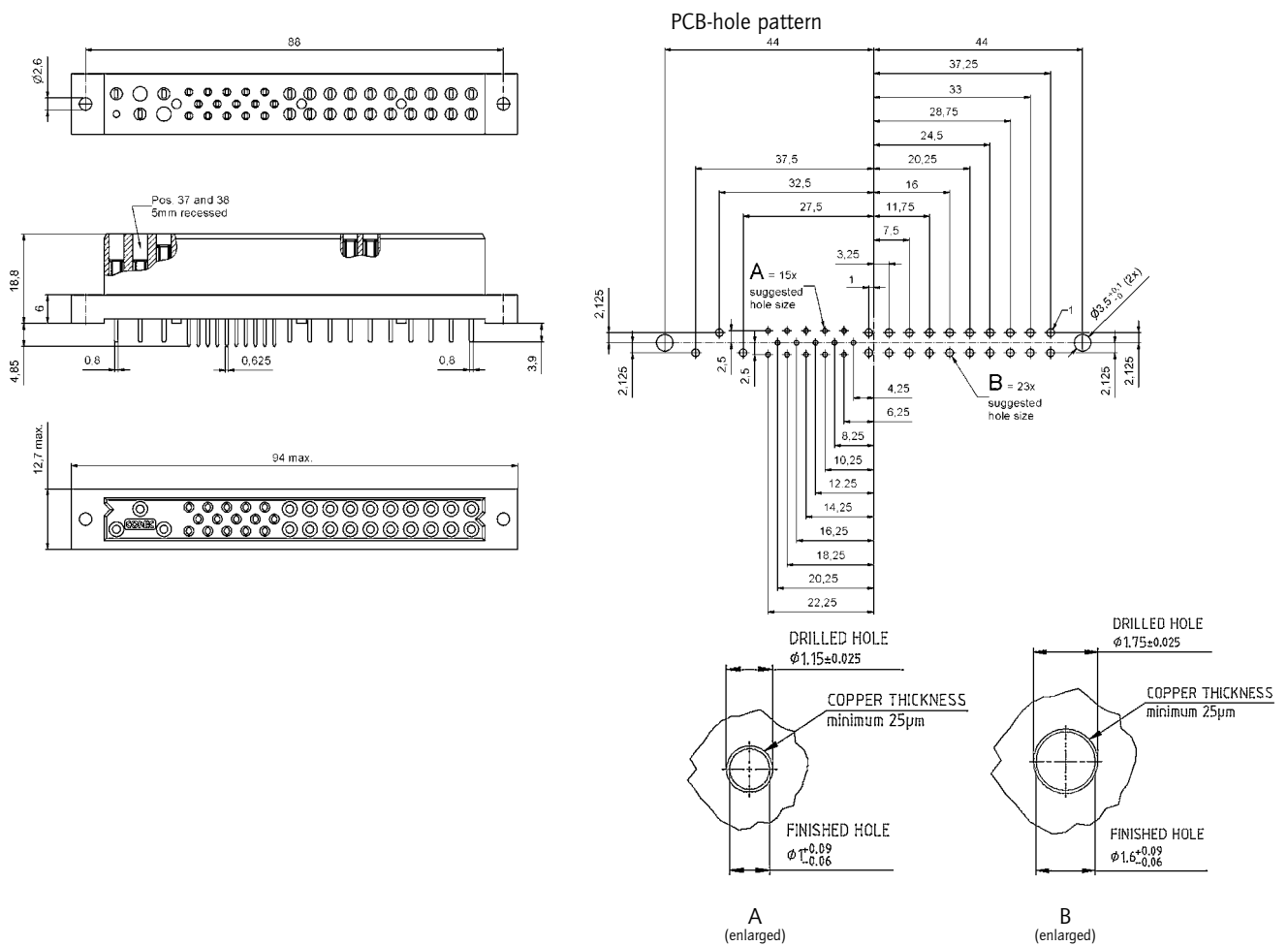


RoHS compliant – UL listed, File no.: E228329

DESCRIPTION

- Signal and power contacts
- 38 contacts, 15x signal / 23x power
- Sequential mating
- Eye of needle press fit design, tin plated
- Precision machined contact for the mating area
- Contact plating quality class 1 or alternative quality class 3
- Special contact loadings possible on request

PRODUCT DRAWING



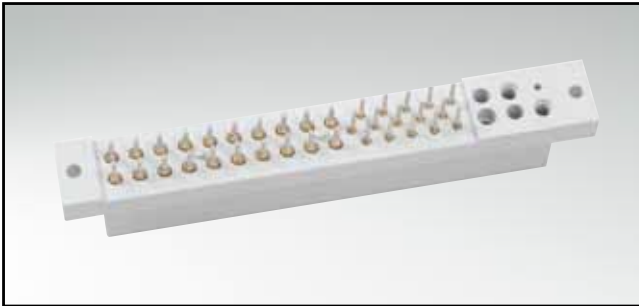
ORDER DATA

(Dim. = mm)

Number of positions	Contacts	Part number Quality class 3 (gold flash)	Part number Quality class 1 (0.8 μ m Au mating area)
38	15x signal / 23x power	CPH38 W23 FGE3SK9 X	CPH38 W23 FGE1SK9 X

COMPACTPCI

Female connector – press fit – straight – precision machined contacts – 38 positions

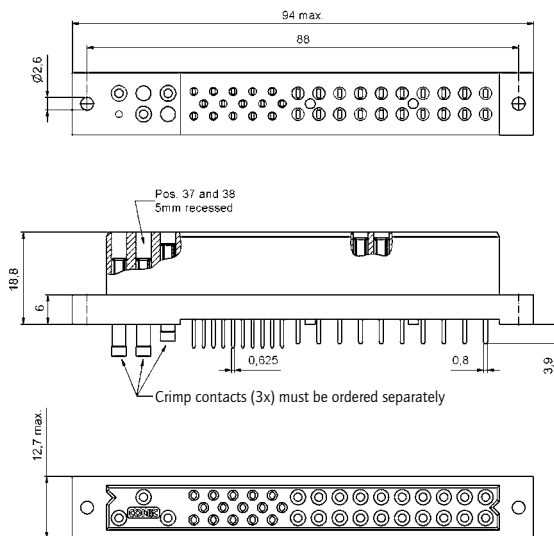


RoHS compliant – UL listed, File no.: E228329

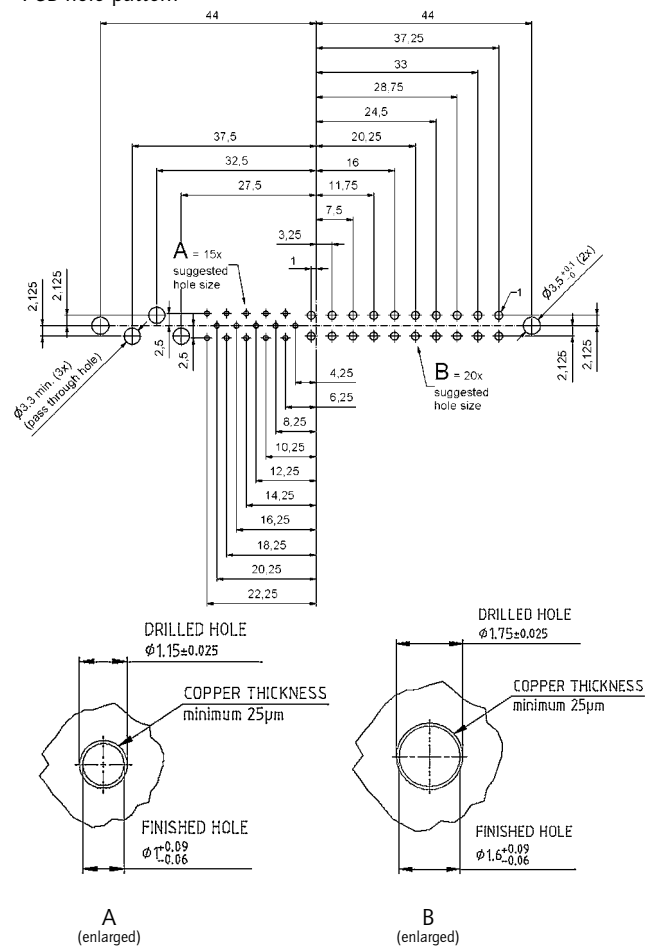
DESCRIPTION

- Signal and power contacts
- Selectively loaded with 15x signal / 20x power
- Position 36 to 38 for crimp contacts (page 3 | 36)
- Eye of needle press fit design, tin plated
- Precision machined contact for the mating area
- Contact plating quality class 1 or alternative quality class 3
- "Low Profile" area for crimp contacts
- Special contact loadings possible on request

PRODUCT DRAWING



PCB-hole pattern



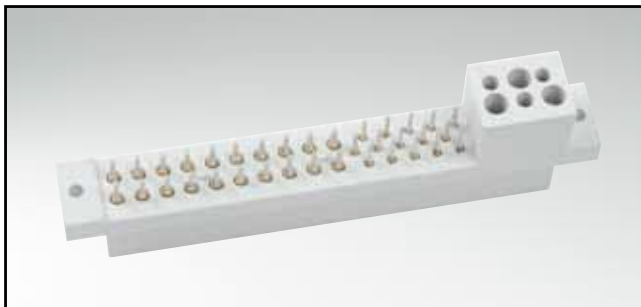
ORDER DATA

(Dim. = mm)

Number of positions	Contacts	Part number Quality class 3 (gold flash)	Part number Quality class 1 (0.8 μ m Au mating area)
38	15x signal / 20x power	CPH38 W23 FGE3SN9 X	CPH38 W23 FGE1SN9 X

COMPACTPCI

Female connector – press fit – straight – precision machined contacts – 38 positions

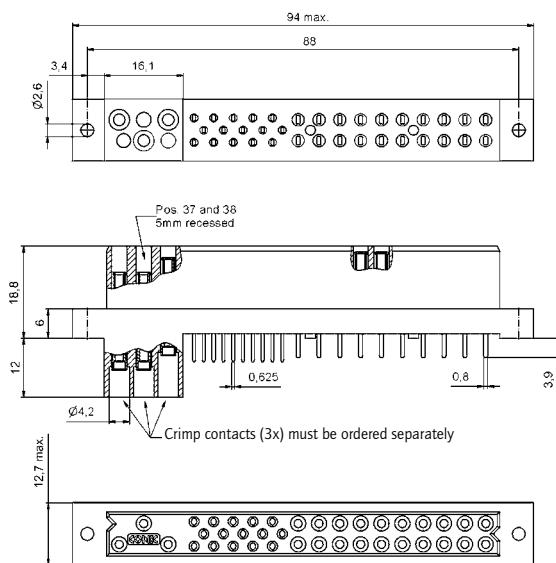


RoHS compliant – UL listed, File no.: E228329

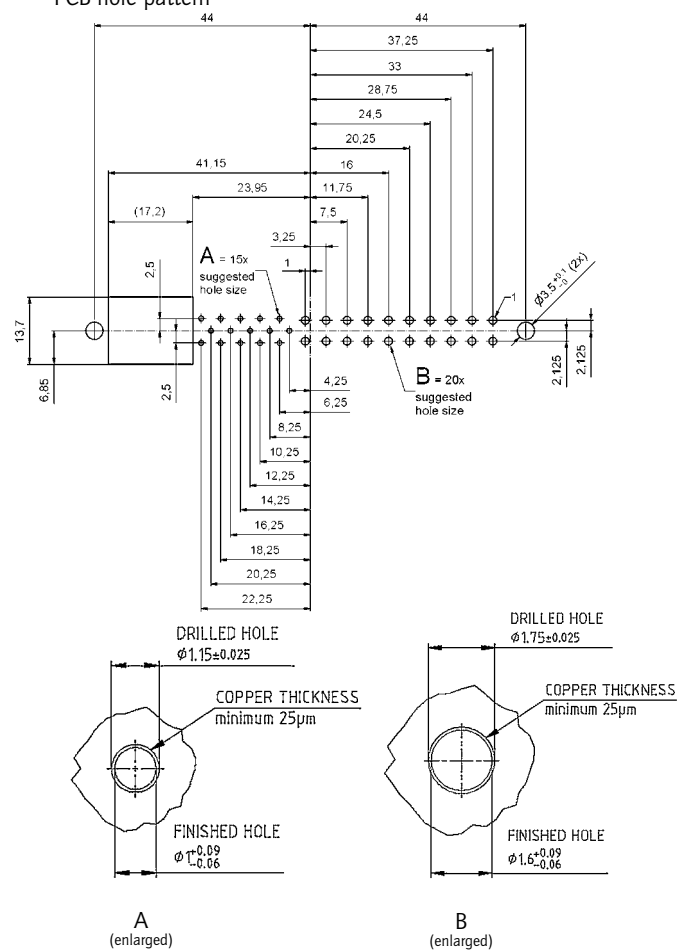
DESCRIPTION

- Signal and power contacts
- Selectively loaded with 15x signal / 20x power
- Position 36 to 38 for crimp contacts (page 3 | 36)
- Eye of needle press fit design, tin plated
- Precision machined contact for the mating area
- Contact plating quality class 1 or alternative quality class 3
- "High Profile", insulation support for crimp contacts
- Special contact loadings possible on request

PRODUCT DRAWING



PCB-hole pattern



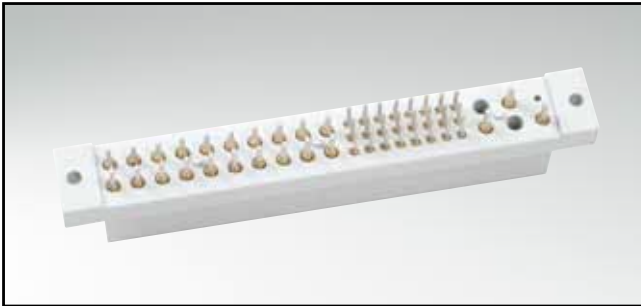
ORDER DATA

(Dim. = mm)

Number of positions	Contacts	Part number Quality class 3 (gold flash)	Part number Quality class 1 (0.8 μ m Au mating area)
38	15x signal / 20x power	CPH38 W23 FGE3SH9 X	CPH38 W23 FGE1SH9 X

COMPACTPCI

Female connector – press fit – straight – precision machined contacts – 47 positions

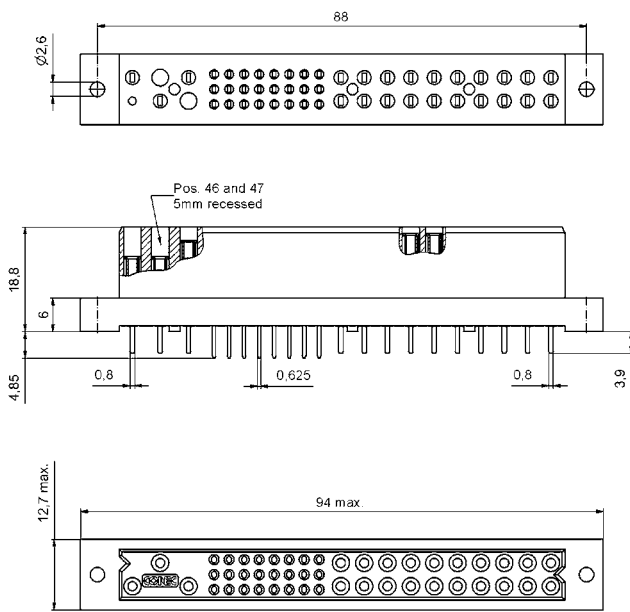


RoHS compliant – UL listed, File no.: E228329

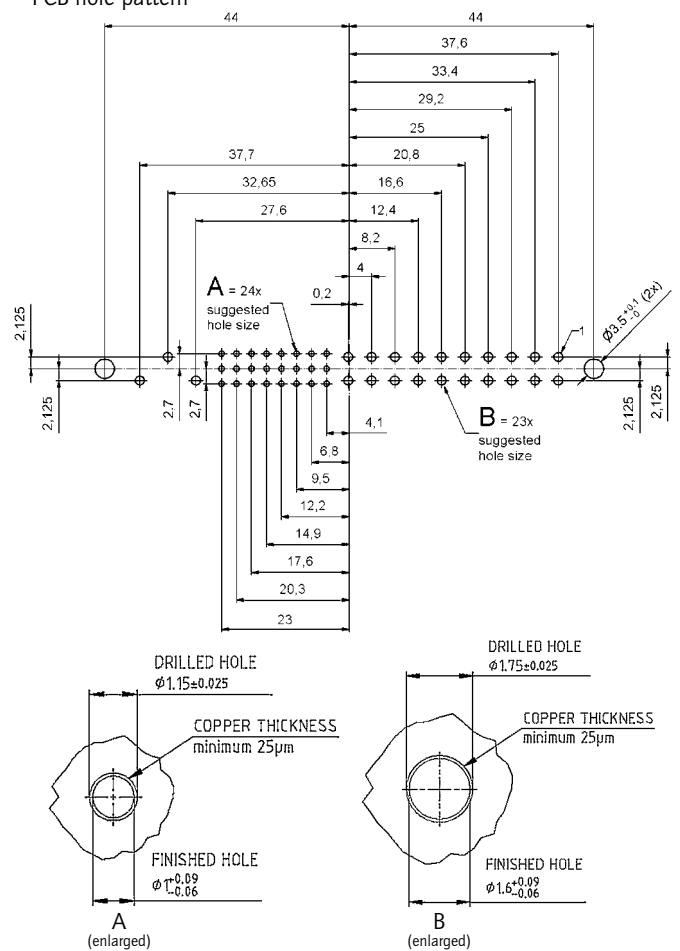
DESCRIPTION

- Signal and power contacts
- 47 contacts, 24x signal / 23x power
- Sequential mating
- Eye of needle press fit design, tin plated
- Precision machined contact for the mating area
- Contact plating quality class 1 or alternative quality class 3
- Special contact loadings possible on request

PRODUCT DRAWING



PCB-hole pattern



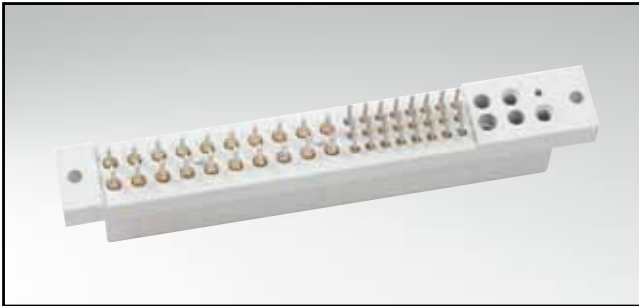
ORDER DATA

(Dim. = mm)

Number of positions	Contacts	Part number Quality class 3 (gold flash)	Part number Quality class 1 (0.8 μ m Au mating area)
47	24x signal / 23x power	CPH47 W23 FGE3SK9 X	CPH47 W23 FGE1SK9 X

COMPACTPCI

Female connector – press fit – straight – precision machined contacts – 47 positions

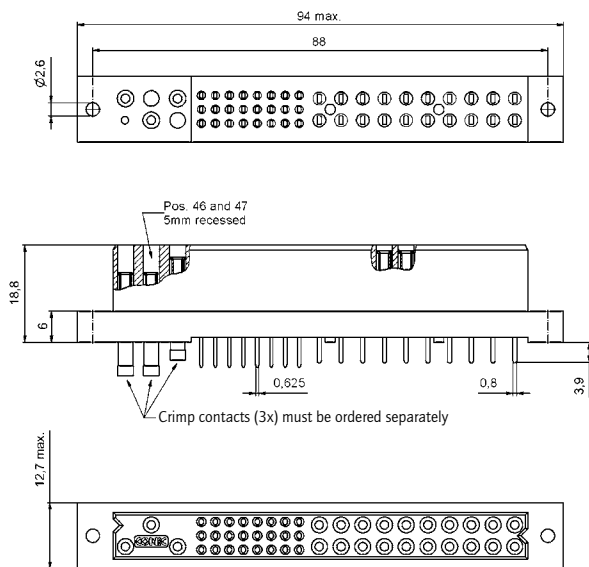


RoHS compliant – UL listed, File no.: E228329

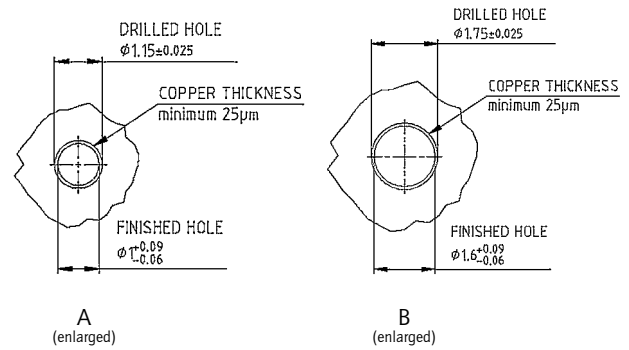
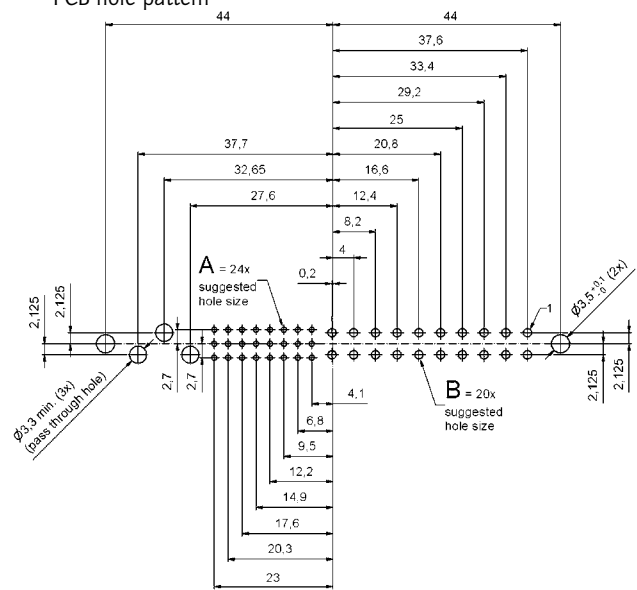
DESCRIPTION

- Signal and power contacts
- Selectively loaded with 24x signal / 20x power
- Position 45 to 47 for crimp contacts (page 3 | 36)
- Eye of needle press fit design, tin plated
- Precision machined contact for the mating area
- Contact plating quality class 1 or alternative quality class 3
- "Low Profile" area for crimp contacts
- Special contact loadings possible on request

PRODUCT DRAWING



PCB-hole pattern



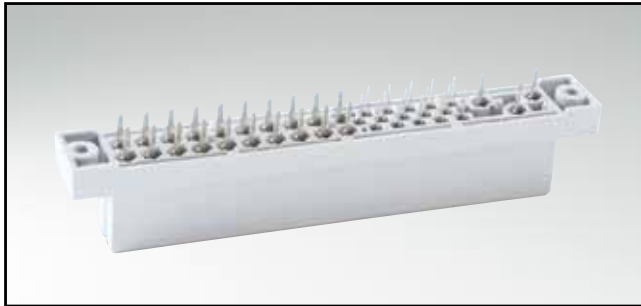
ORDER DATA

(Dim. = mm)

Number of positions	Contacts	Part number Quality class 3 (gold flash)	Part number Quality class 1 (0.8 μ m Au mating area)
47	24x signal / 20x power	CPH47 W23 FGE3SN9 X	CPH47 W23 FGE1SN9 X

COMPACTPCI

Female connector – press fit – straight – stamped contacts – 38 positions

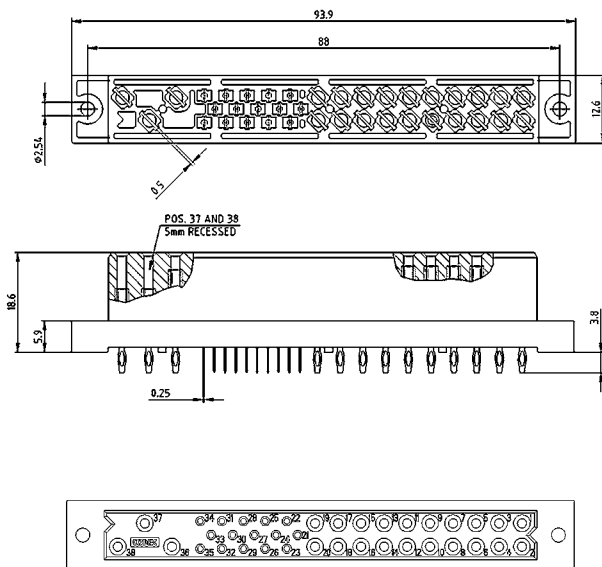


RoHS compliant

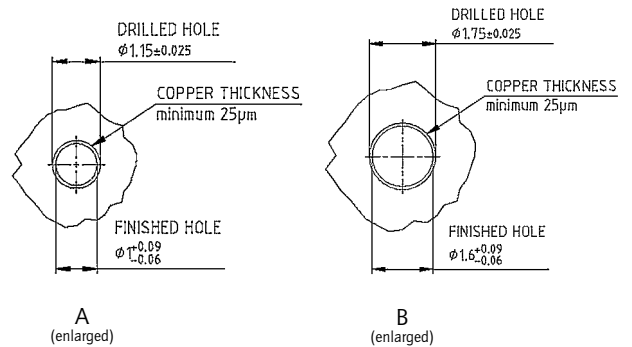
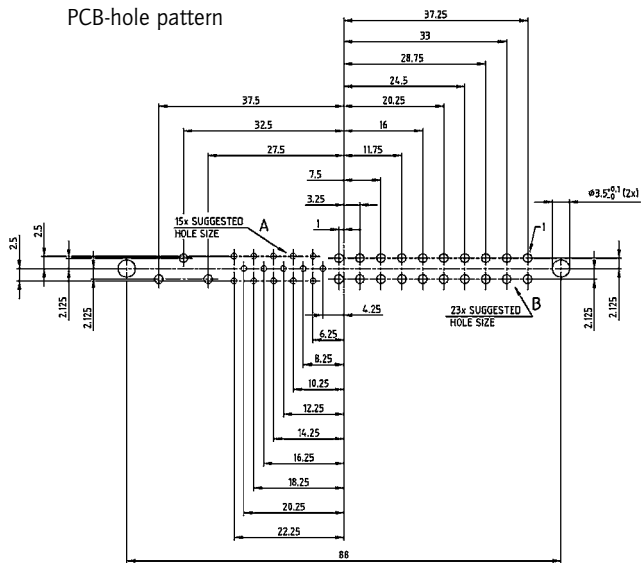
DESCRIPTION

- Signal and power contacts
- 38 contacts, 15x signal / 23x power
- Sequential mating
- Eye of needle press fit design, tin-plated
- Contact plating quality class 1 or alternative quality class 3
- Special contact loadings possible on request

PRODUCT DRAWING



PCB-hole pattern



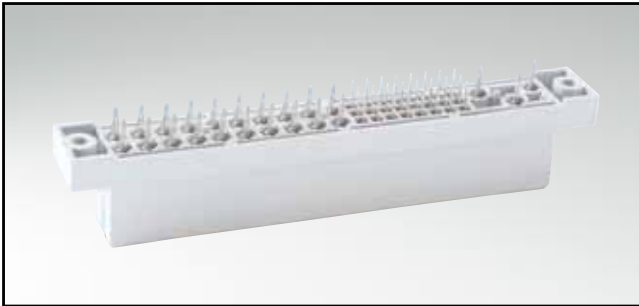
ORDER DATA

(Dim. = mm)

Number of positions	Contacts	Part number Quality class 3 (gold flash)	Part number Quality class 1 (0.8µm Au mating area)
38	15x signal / 23x power	45-000143	45-000141

COMPACTPCI

Female connector – press fit – straight – stamped contacts – 47 positions

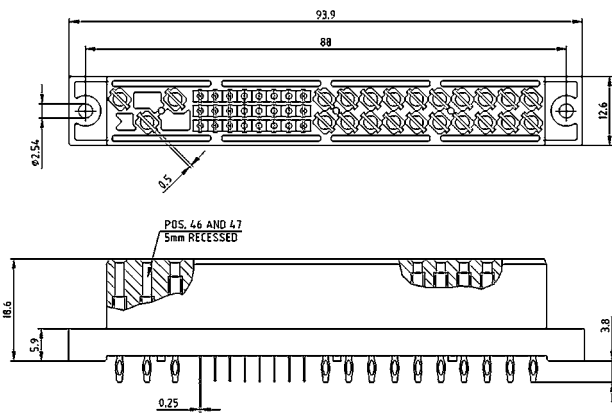


RoHS compliant

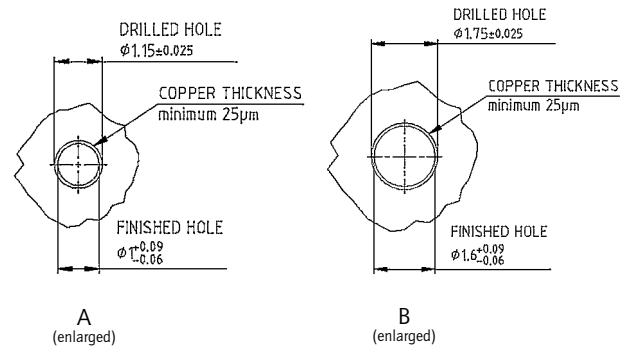
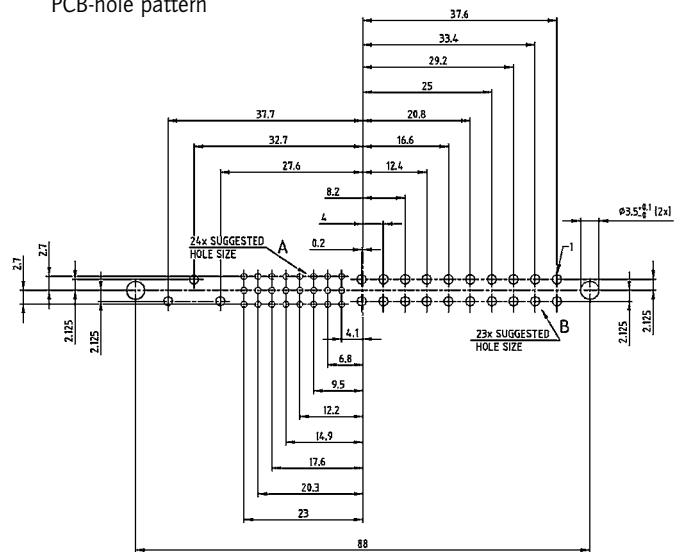
DESCRIPTION

- Signal and power contacts
- 47 contacts, 24x signal / 23x power
- Sequential mating
- Eye of needle press fit design, tin-plated
- Contact plating quality class 1 or alternative quality class 3
- Special contact loadings possible on request

PRODUCT DRAWING



PCB-hole pattern



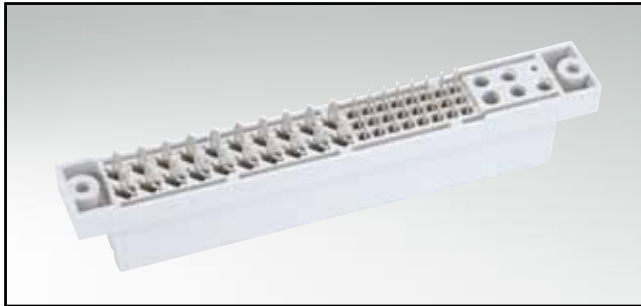
(Dim. = mm)

ORDER DATA

Number of positions	Contacts	Part number Quality class 3 (gold flash)	Part number Quality class 1 (0.8µm Au mating area)
47	24x signal / 23x power	45-000153	45-000151

COMPACTPCI

Female connector – press fit – straight – stamped – 47 positions

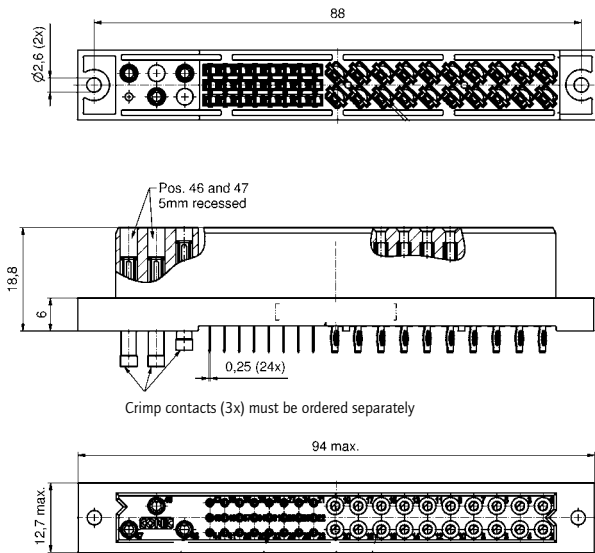


RoHS compliant

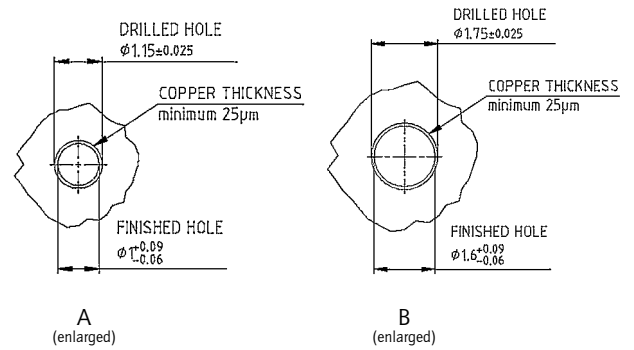
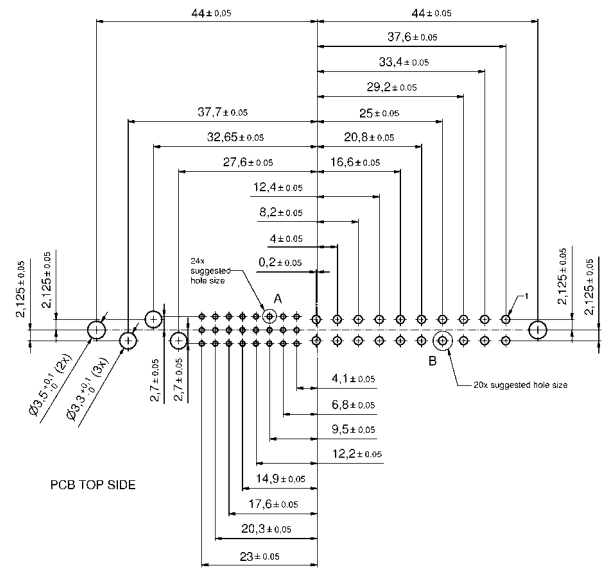
DESCRIPTION

- Signal and power contacts
- Selectively loaded with 24x signal / 20x power
- Position 45 to 47 for crimp contacts (page 3 | 36)
- Eye of needle press fit design, tin plated
- Contact plating quality class 1 or alternative quality class 3
- "Low Profile" area for crimp contacts
- Special contact loadings possible on request

PRODUCT DRAWING



PCB-hole pattern



ORDER DATA

(Dim. = mm)

Number of positions	Contacts	Part number Quality class 3 (gold flash)	Part number Quality class 1 (0.8µm Au mating area)
47	24x signal / 20x power	45-000103	45-000101

COMPACTPCI

Female Connector – crimp version (without contacts) – 47 positions

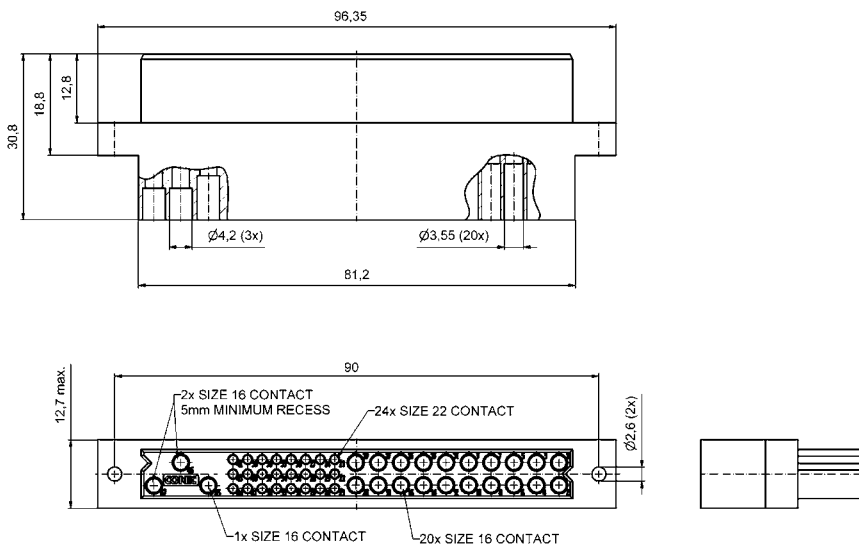


RoHS compliant

DESCRIPTION

- For precision machined power- and signal contacts
- Power contacts are suitable for wire size AWG 12 to 24
- Signal contacts are suitable for wire size AWG 22
- For crimp contacts please see page 3 | 36

PRODUCT DRAWING



ORDER DATA

(Dim. = mm)

Number of positions	Part number
47	CPH 47W23 FXXXSH9 X

COMPACTPCI

Power and Signal crimp contacts – precision machined version



RoHS compliant

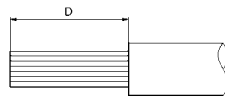
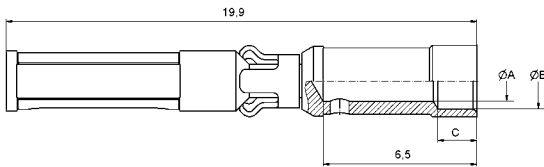
DESCRIPTION

- Power contacts are suitable for wire size AWG 12 to 24
- Signal contacts are suitable for wire size AWG 22
- Crimp tools see section 9
- Suitable connectors on page 3 | 16, 3 | 17, 3 | 21, 3 | 22, 3 | 24, 3 | 28, 3 | 29, 3 | 34 and 3 | 35
- Gold plated quality class 1 or alternative quality class 3

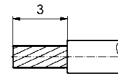
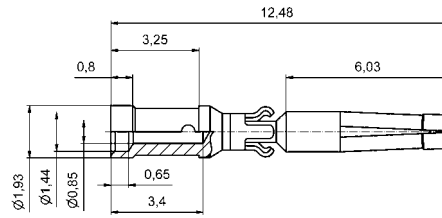
PRODUCT DRAWING

Power crimp contact

Signal crimp contact



Cable stripping dimensions



Cable stripping dimensions

for wire size	A	B	C	D
AWG 12	2.49	-	-	6.5
AWG 14-16	2.06	2.67	1.65	5.0
AWG 16-18	1.70	2.36	1.65	5.0
AWG 20-22-24	1.14	1.72	1.65	5.0

ORDER DATA

(Dim. = mm)

for wire size	Part number Quality class 3 (gold flash)	Part number Quality class 1 (0.8µm Au mating area)
Power crimp AWG 12	CPZC 1612FA X	CPZC 1612FC X
Power crimp AWG 14-16	CPZC 1614FA X	CPZC 1614FC X
Power crimp AWG 16-18	CPZC 1616FA X	CPZC 1616FC X
Power crimp AWG 20-22-24	CPZC 1620FA X	CPZC 1620FC X
Signal crimp AWG 22	CPZC 0822FA X	CPZC 0822FC X

COMPACTPCI / ADVANCEDTCA

Mounting screws

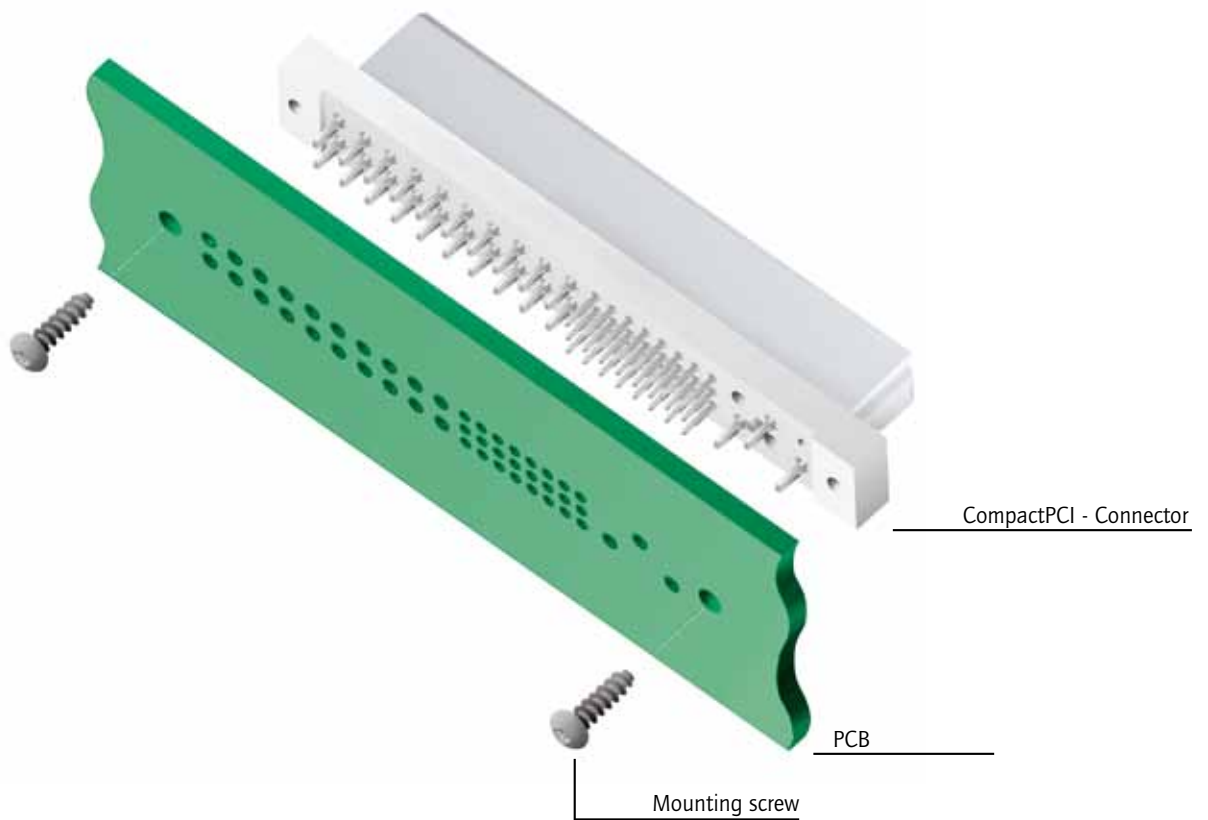


RoHS compliant

DESCRIPTION

- Mounting screws for PCB
- Material: steel, nickel-plated
- Different length for different PCB thicknesses

PRODUCT DRAWING



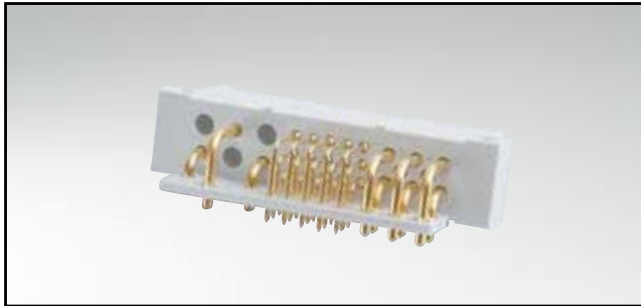
ORDER DATA

(Dim. = mm)

Screw for CompactPCI	Thread length	Screw for AdvancedTCA	Thread length
CPZS 0170 X	8.1 mm	CPZS 5170 X	6.0 mm
CPZS 0270 X	10.1 mm	CPZS 5270 X	8.0 mm
CPZS 0370 X	11.1 mm	CPZS 5370 X	10.0 mm
CPZS 0470 X	12.7 mm	CPZS 5470 X	12.0 mm

MINI POWER

Male Connector – solder pin – angled – precision machined contacts – 24 positions



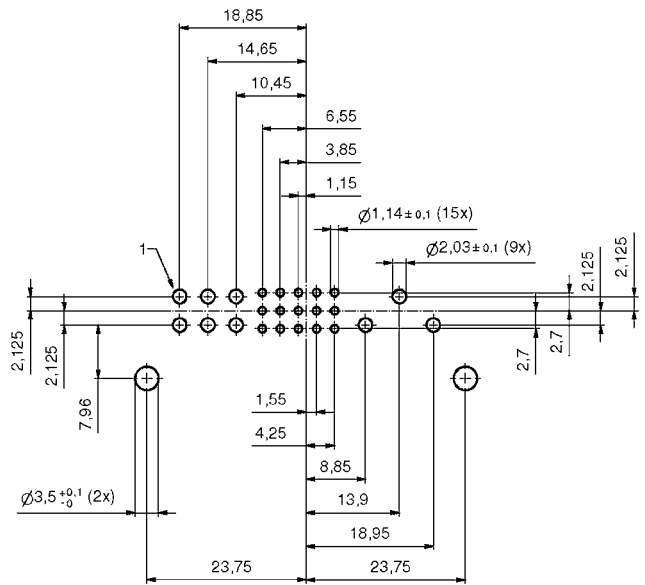
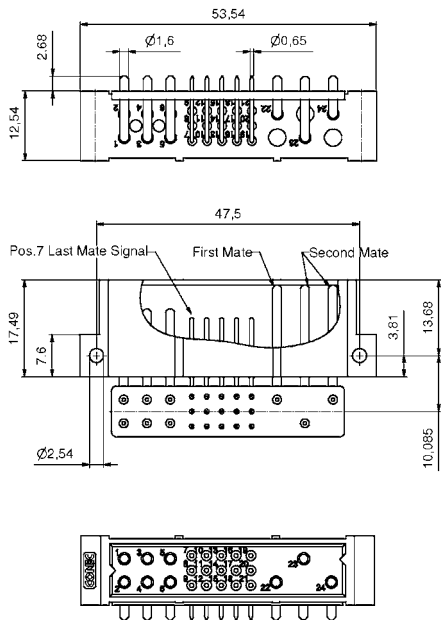
RoHS compliant

DESCRIPTION

- Signal and power contacts
- 24 contacts, 15x signal / 9x power
- Sequential mating
- Contact plating quality class 1 or alternative quality class 3
- Special contact loadings possible on request

PRODUCT DRAWING

PCB-hole pattern



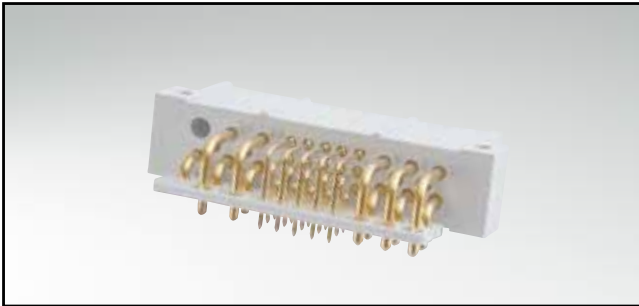
ORDER DATA

(Dim. = mm)

Number of positions	Contacts	Part number Quality class 3 (gold flash)	Part number Quality class 1 (0.8µm Au mating area)
24	15x signal / 9x power	CPD24 W09 MARASK9 X	CPD24 W09 MARCSK9 X

MINI POWER

Male connector – solder pin – angled – precision machined contacts – 26 positions



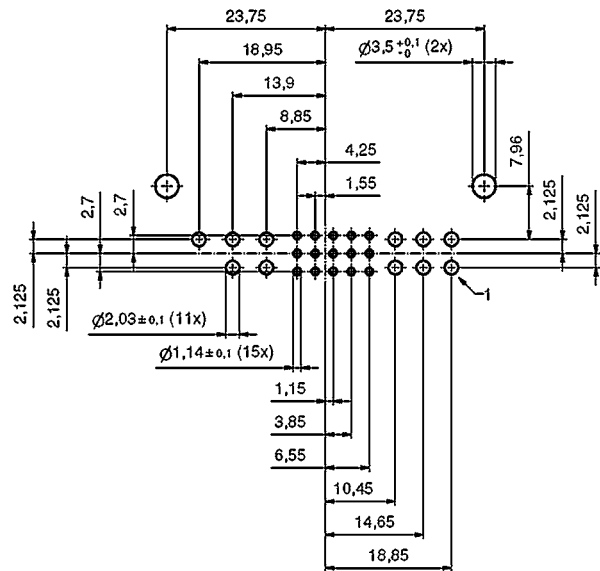
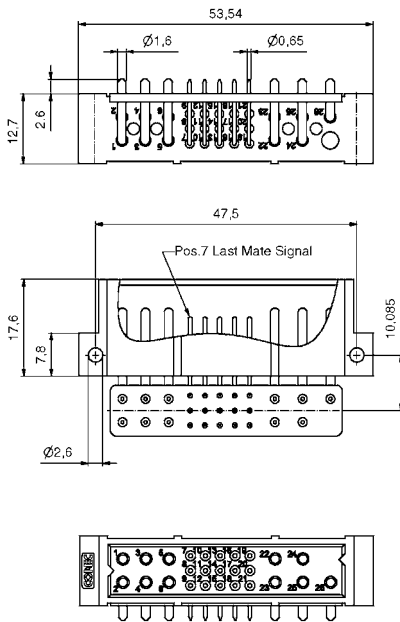
RoHS compliant

DESCRIPTION

- Signal and power contacts
- 26 contacts, 15x signal / 11x power
- Sequential mating
- Contact plating quality class 1 or alternative quality class 3
- Special contact loadings possible on request

PRODUCT DRAWING

PCB-hole pattern



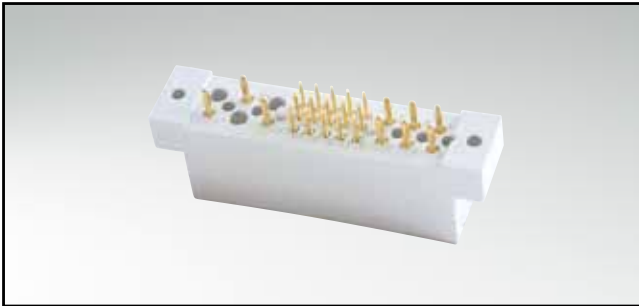
ORDER DATA

(Dim. = mm)

Number of positions	Contacts	Part number Quality class 3 (gold flash)	Part number Quality class 1 (0.8µm Au mating area)
26	15x signal / 11x power	CPD26 W11 MARASK9 X	CPD26 W11 MARCSK9 X

MINI POWER

Male connector – solder pin – straight – precision machined contacts – 24 positions



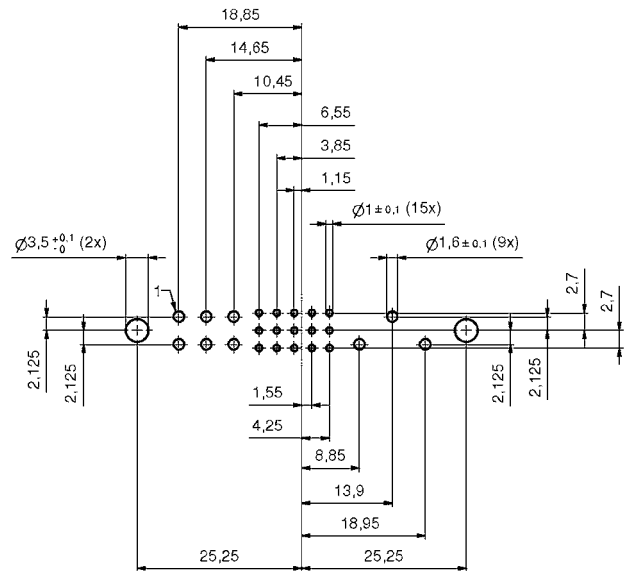
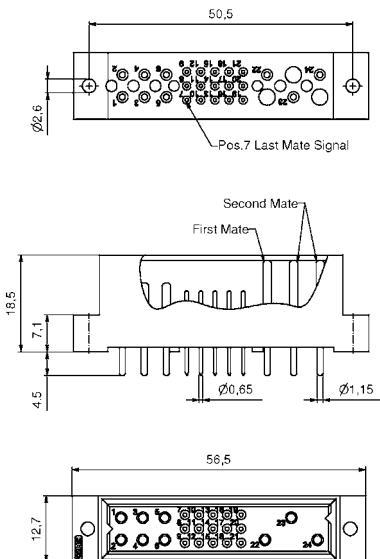
RoHS compliant

DESCRIPTION

- Signal and power contacts
- 24 contacts, 15x signal / 9x power
- Sequential mating
- Contact plating quality class 1 or alternative quality class 3
- Special contact loadings possible on request

PRODUCT DRAWING

PCB-hole pattern



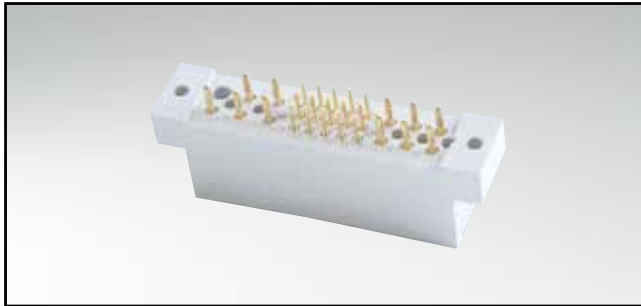
ORDER DATA

(Dim. = mm)

Number of positions	Contacts	Part number Quality class 3 (gold flash)	Part number Quality class 1 (0.8µm Au mating area)
24	15x signal / 9x power	CPD24 W09 MGRASK9 X	CPD24 W09 MGRCSK9 X

MINI POWER

Male connector – solder pin – straight – precision machined contacts – 26 positions



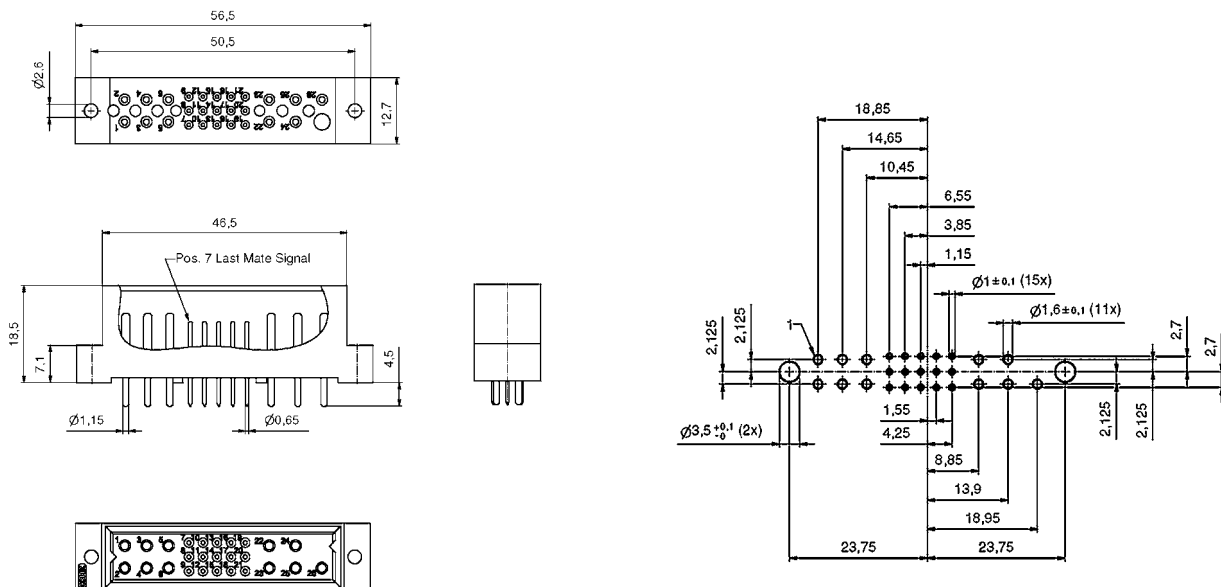
RoHS compliant

DESCRIPTION

- Signal and power contacts
- 26 contacts, 15x signal / 11x power
- Sequential mating
- Contact plating quality class 1 or alternative quality class 3
- Special contact loadings possible on request

PRODUCT DRAWING

PCB-hole pattern



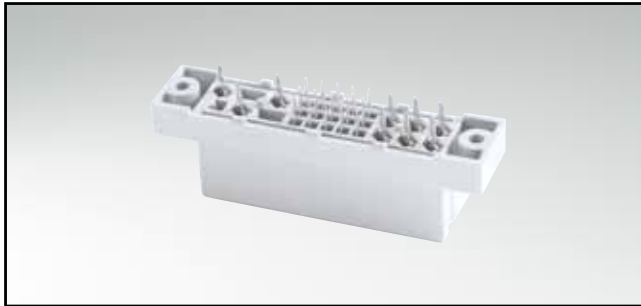
ORDER DATA

(Dim. = mm)

Number of positions	Contacts	Part number Quality class 3 (gold flash)	Part number Quality class 1 (0.8µm Au mating area)
26	15x signal / 11x power	CPD26 W11 MGRASK9 X	CPD26 W11 MGRCSK9 X

MINI POWER

Female connector – press fit – straight – stamped – 24 positions

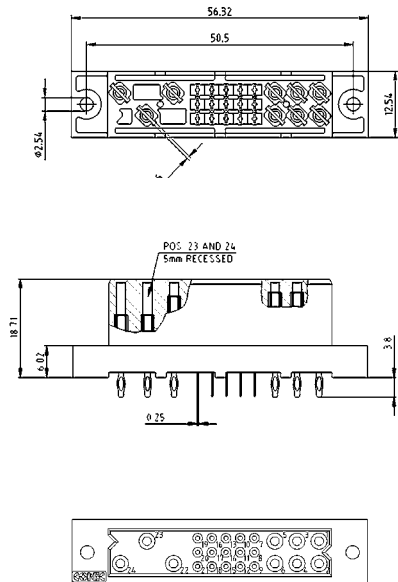


RoHS compliant

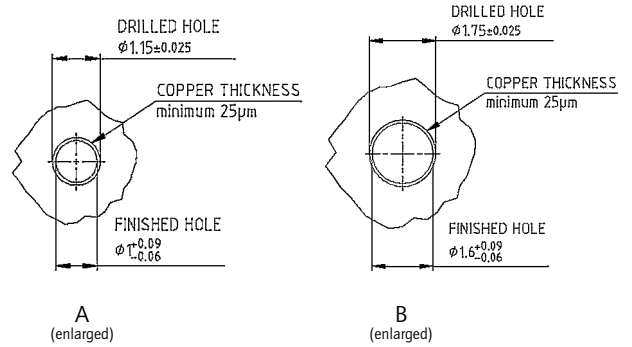
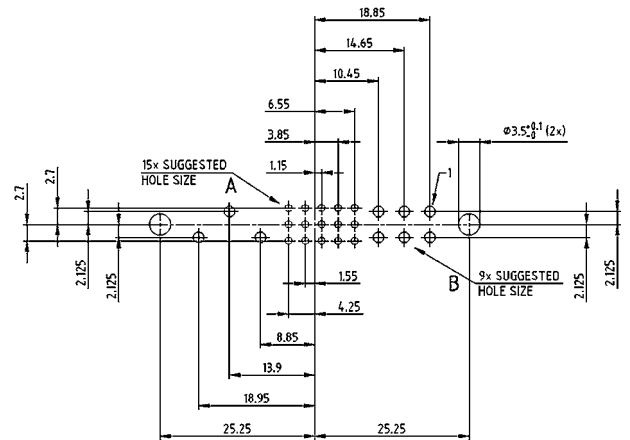
DESCRIPTION

- Signal and power contacts
- 24 contacts, 15x signal/9x power
- Sequential mating
- Eye of needle press fit design, tin-plated
- Contact plating quality class 1 or alternative quality class 3
- Special contact loadings possible on request

PRODUCT DRAWING



PCB-hole pattern



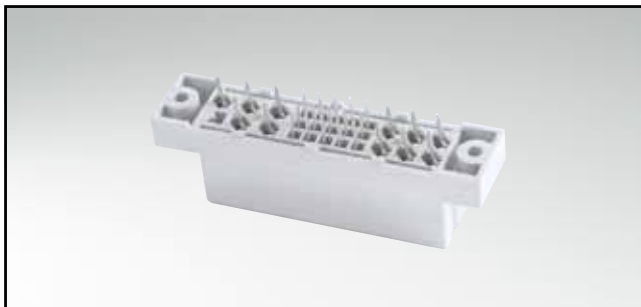
(Dim. = mm)

ORDER DATA

Number of positions	Contacts	Part number Quality class 3 (gold flash)	Part number Quality class 1 (0.8 μ m Au mating area)
24	15x signal/9x power	45-000123	45-000121

MINI POWER

Female connector – press fit – straight – stamped contacts – 26 positions

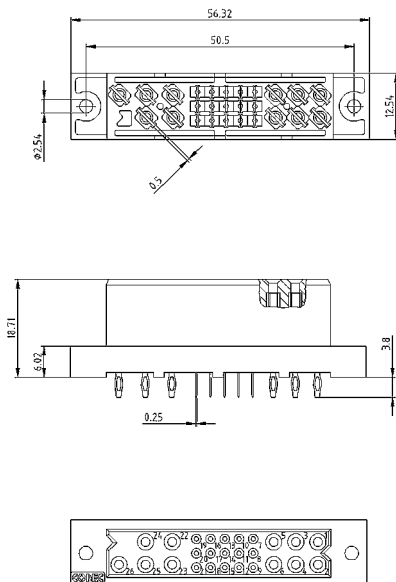


RoHS compliant

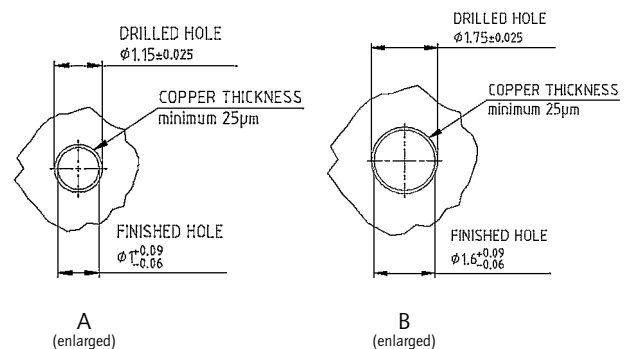
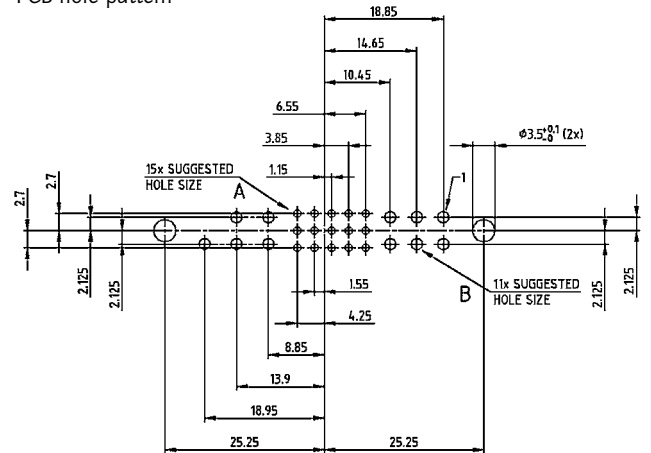
DESCRIPTION

- Signal and power contacts
- 26 contacts, 15x signal / 11x power
- Sequential mating
- Eye of needle press fit design, tin-plated
- Contact plating quality class 1 or alternative quality class 3
- Special contact loadings possible on request

PRODUCT DRAWING



PCB-hole pattern



(Dim. = mm)

ORDER DATA

Number of positions	Contacts	Part number Quality class 3 (gold flash)	Part number Quality class 1 (0.8µm Au mating area)
26	15x signal / 11x power	45-000133	45-000131

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