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Единый адрес: ccn@nt-rt.ru | <http://www.conec.nt-rt.ru>

SECTION 1

ADVANCED TCA CONNECTORS

This newly developed architecture and system layout allows manufacturers of telecom equipment a new standard for designing systems (PICMG 3.0). ATCA stands for: Advanced Telecommunications Computing Architecture

The basic structure is utilizing a modular concept. Application of this new structured approach allows various module designs that are compatible in layout and mechanical installation.

CONEC manufactured the power connectors for the ATCA-System which are used in Zone 1.



Advanced TCA[®]



The PICMG Group created the PICMG 3.0 Standard. This Standard specifies the mechanical details with regards to input/output, voltage, current and connection parameters. Control, backplane layout and system architecture are part of the standard.

CONEC has developed a new family of connector products that adhere to this new Standard. Products such as plugs and sockets, high power and signal contacts, have been developed.

This new connector series is available with press fit and through hole contact types.

Product features:

- Rugged construction
- Polarizing system
- Premating contacts
- Press fit contacts ("Eye of the needle")
- Selective loading of contact positions
- Screwdown hardware
- Special variations on request

CONEC is member of the PICMG Group.
For more information please visit
www.picmg.com.



TECHNICAL DATA

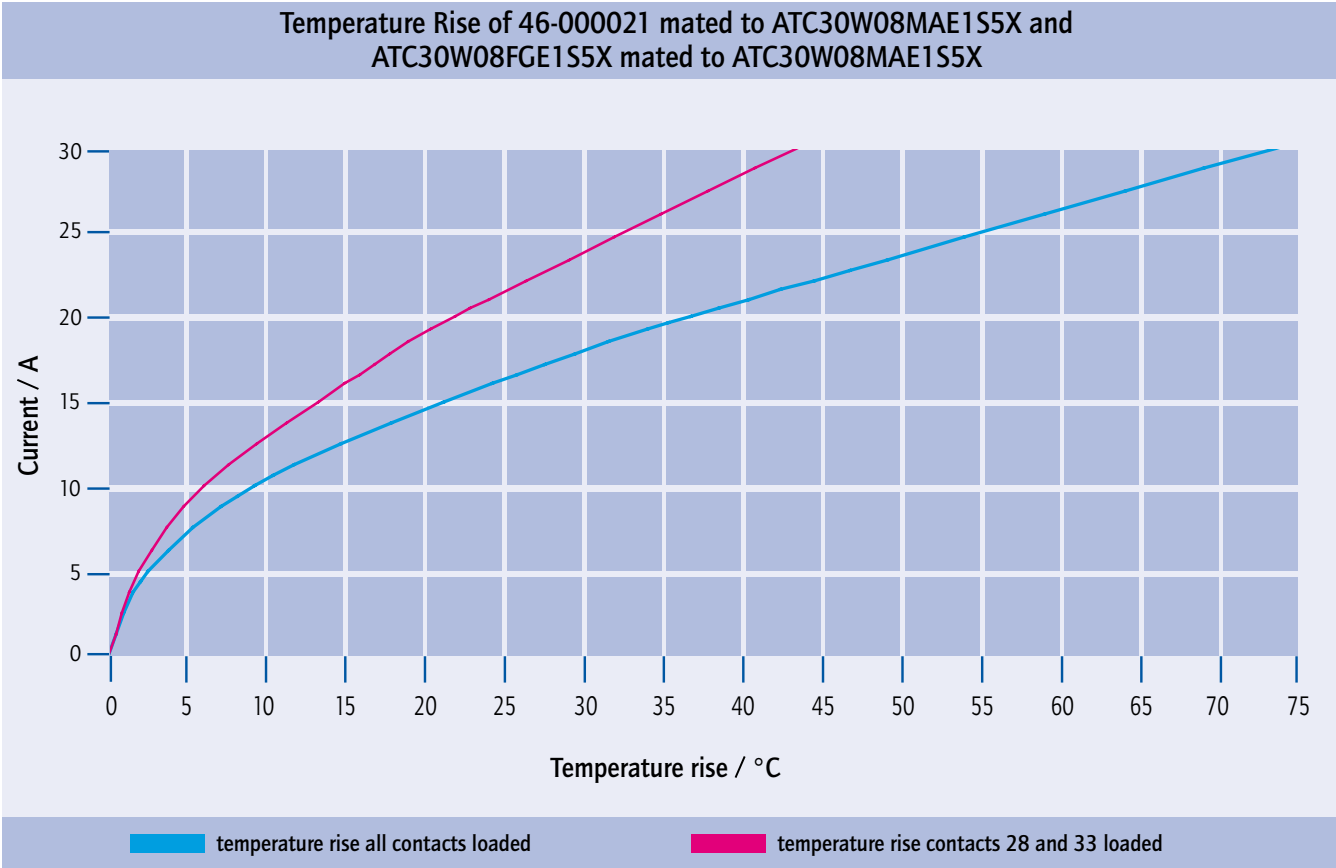
Materials	Precision machined contacts	Stamped contacts
Insulator	Glass filled plastic, UL 94V-0	
Contacts		
Materials	Copper alloy	
Plating	Gold flash over nickel / 0.8 µm gold over nickel (press fit design tin plated)	Gold flash over nickel / 0.8 µm gold over nickel gold over nickel (press fit design tin plated)

Electrical Characteristics	
Max. current rating, per UL 1977, (see temperature rise curve for details)	
Size 16 power contacts	30 A continuous all contacts under load
Size 22 signal contacts	2 A nominal rating
Initial contact resistance (termination to termination)	
Size 16 power contacts	0.0022 Ω max.
Size 22 signal contacts	0.0085 Ω max. 0.02 Ω max.
Insulation resistant	5 G Ω per IEC 512-2 Test 3a
Voltage proof	
Contacts 1 through 16	1000 V r.m.s.
Contacts 17 through 34	2000 V r.m.s.
Creepage and clearance distance (minimum)	
Contact positions 1 through 16 to any other contact within this group	0.7 mm
Contact positions 17 through 24 to any other contact within this group	2.5 mm
Contact positions 25 through 34 to any other contact within this group	1.4 mm
Contact positions 13 through 16 to 17 through 20	3.0 mm
Contact positions 21 through 24 to 25, 26	4.0 mm
Contact positions 25, 26 to 27 through 29	2.0 mm
Working voltage	100 V r.m.s.

Mechanical Characteristics	
Blind mating system	male and female connector bodies provide "lead-in" for 2.0 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 (succession)	<ol style="list-style-type: none"> 1. 25, 26, 28, 29, 30 and 31 2. 33 3. 34 4. contacts 1 to 24 mate before 27 and 32 (last mate)
Mechanical operations	250 cycles
Temperature range	-55°C to +125°C

Technical alterations are subjects to change without notice.

DIAGRAM



ADVANCEDTCA

Male Connector – angled – press fit – precision machined contacts

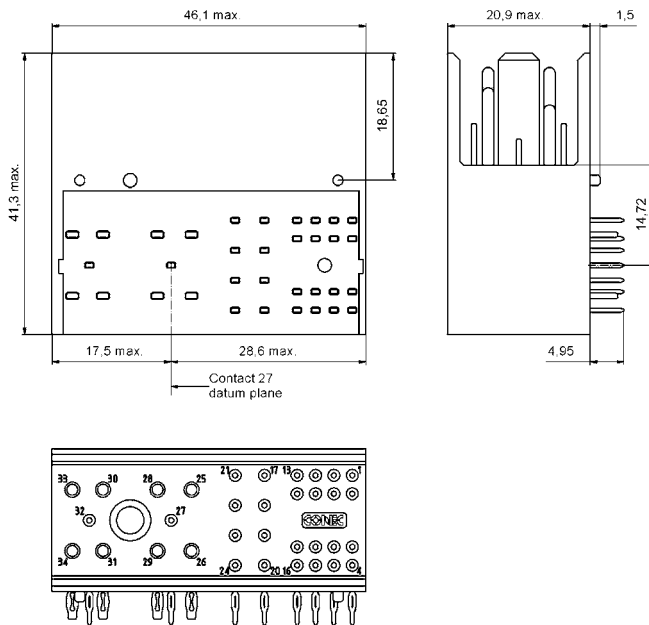


RoHS compliant – UL listed, File no.: E228329

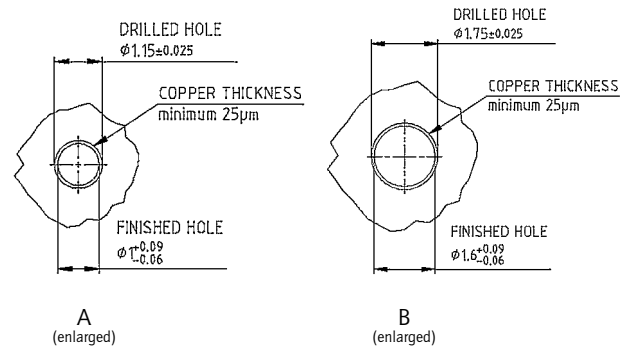
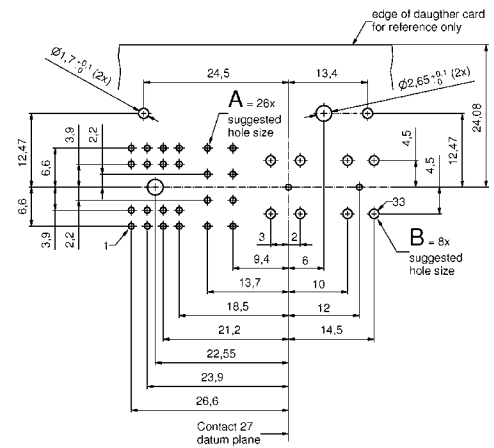
DESCRIPTION

- Signal and power contacts
- Alternatively 22, 30 or 34 positions
- Eye of the needle press fit design, tin plated
- Precision machined contacts for mating area
- Mating area: gold plated quality class 1 or alternative quality class 3
- Special contact loadings possible on request

PRODUCT DRAWING



PCB-hole pattern (34 positions)



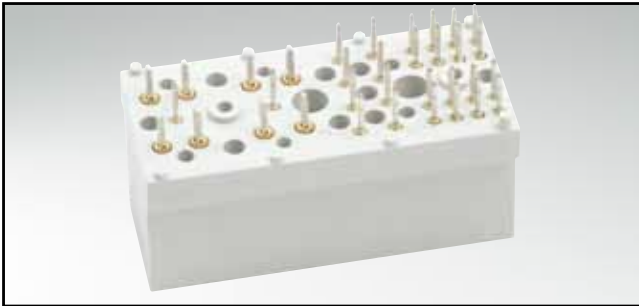
ORDER DATA

(Dim. = mm)

Number of positions	Contacts	Part number Quality class 3 (gold flash)	Part number Quality class 1 (0,8µm Au mating area)
22	14x signal / 8x power	ATC22 W08 MAE3S5 X	ATC22 W08 MAE1S5 X
30	22x signal / 8x power	ATC30 W08 MAE3S5 X	ATC30 W08 MAE1S5 X
34	26x signal / 8x power	ATC34 W08 MAE3S5 X	ATC34 W08 MAE1S5 X

ADVANCEDTCA

Female connector – straight – press fit – precision machined contacts

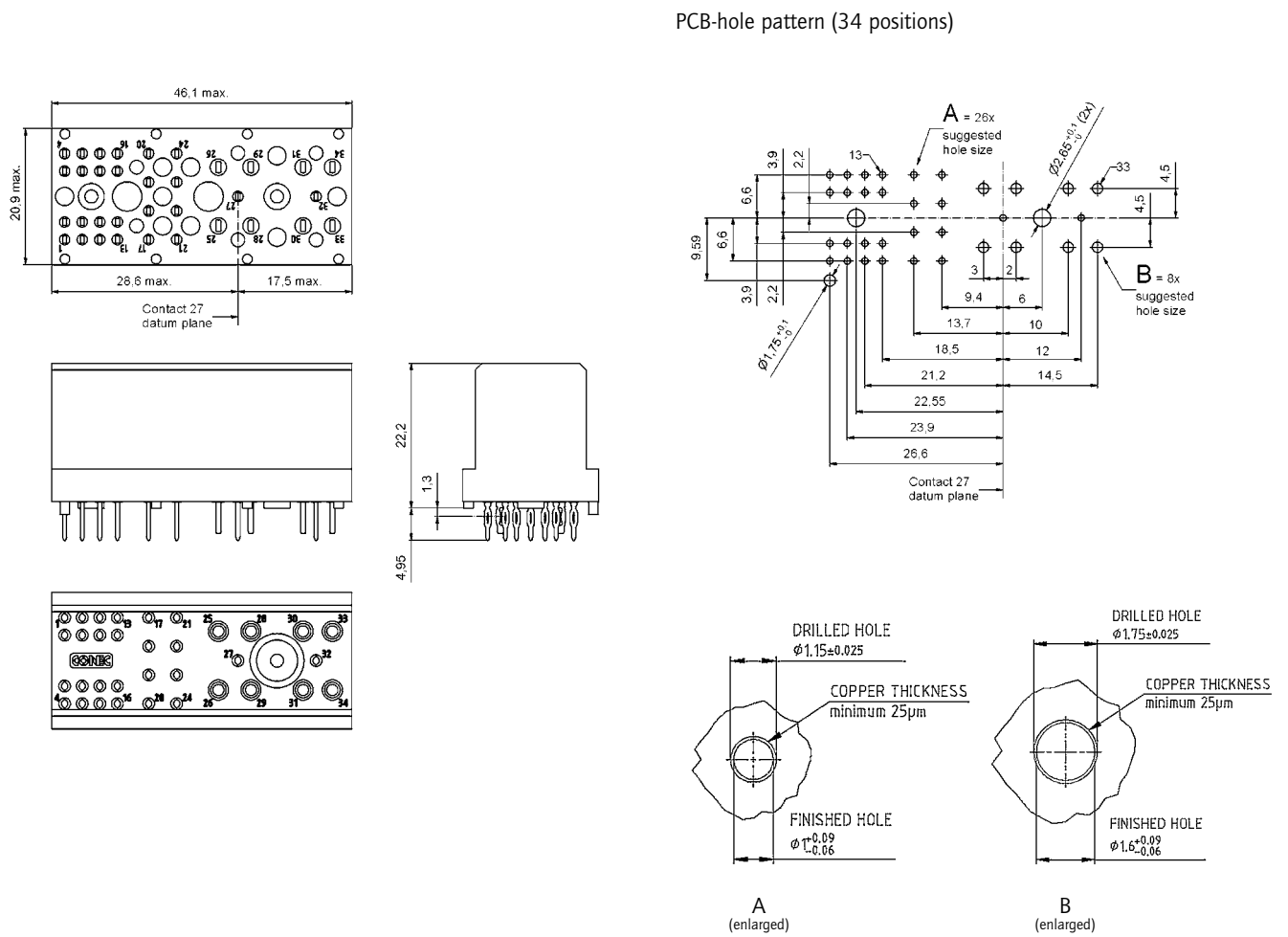


RoHS compliant – UL listed, File no.: E228329

DESCRIPTION

- Signal and power contacts
- Alternatively 22, 30 or 34 positions
- Eye of the needle press fit design, tin plated
- Precision machined contacts for mating area
- Mating area: gold plated quality class 1 or alternative quality class 3
- Special contact loadings possible on request

PRODUCT DRAWING



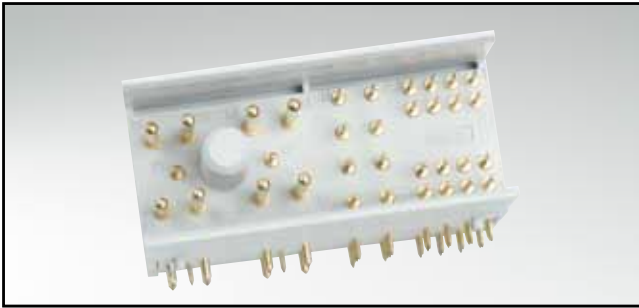
ORDER DATA

(Dim. = mm)

Number of positions	Contacts	Part number Quality class 3 (gold flash)	Part number Quality class 1 (0,8µm Au mating area)
22	14x signal / 8x power	ATC22 W08 FGE3S5 X	ATC22 W08 FGE1S5 X
30	22x signal / 8x power	ATC30 W08 FGE3S5 X	ATC30 W08 FGE1S5 X
34	26x signal / 8x power	ATC34 W08 FGE3S5 X	ATC34 W08 FGE1S5 X

ADVANCEDTCA

Male connector – angled – solder pin – precision machined contacts



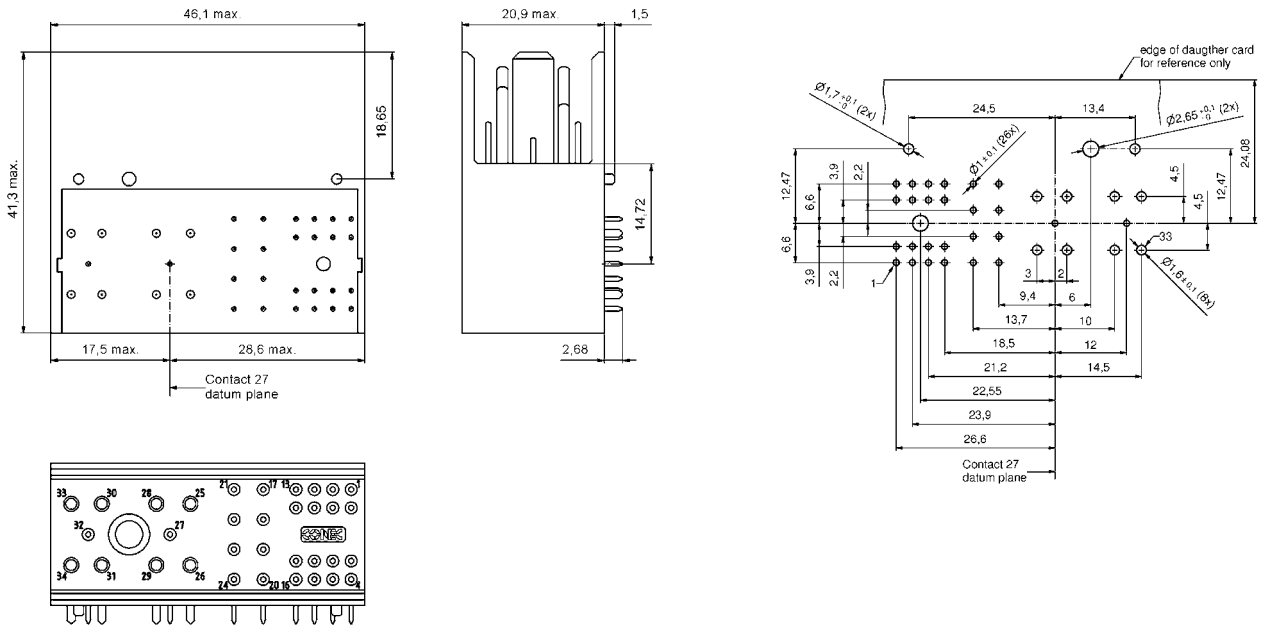
RoHS compliant – UL listed, File no.: E228329

DESCRIPTION

- Signal and power contacts
- Alternatively 22, 30 or 34 positions
- Mating area: gold plated quality class 1 or alternative quality class 3
- Special contact loadings possible on request

PRODUCT DRAWING

PCB-hole pattern (34 positions)



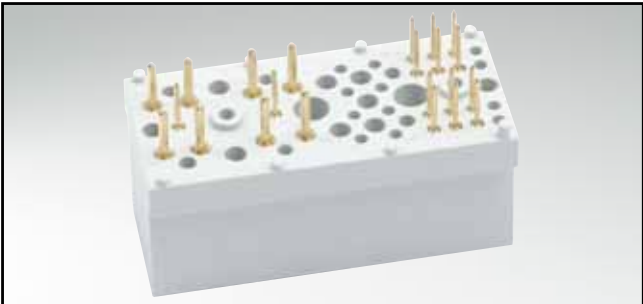
ORDER DATA

(Dim. = mm)

Number of positions	Contacts	Part number Quality class 3 (gold flash)	Part number Quality class 1 (0,8µm Au mating area)
22	14x signal / 8x power	ATC22 W08 MARAS5 X	ATC22 W08 MARCS5 X
30	22x signal / 8x power	ATC30 W08 MARAS5 X	ATC30 W08 MARCS5 X
34	26x signal / 8x power	ATC34 W08 MARAS5 X	ATC34 W08 MARCS5 X

ADVANCEDTCA

Female connector – straight – solder pin – precision machined contacts

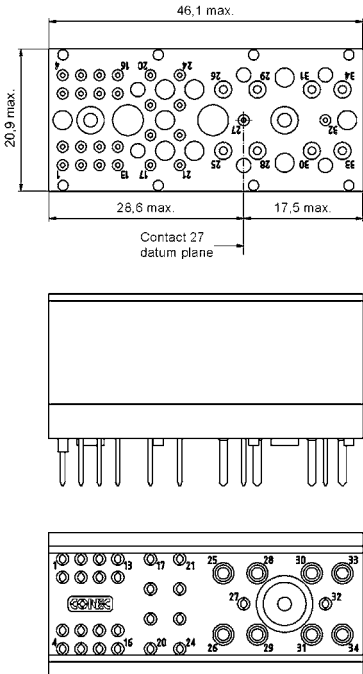


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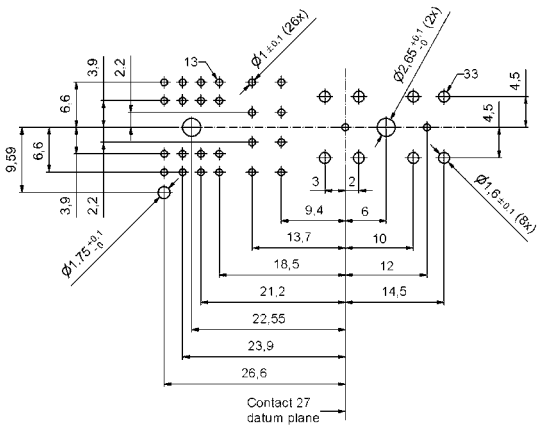
DESCRIPTION

- Signal and power contacts
- Alternatively 22, 30 or 34 positions
- Mating area: gold plated quality class 1 or alternative quality class 3
- Special contact loadings possible on request

PRODUCT DRAWING



PCB-hole pattern (34 positions)



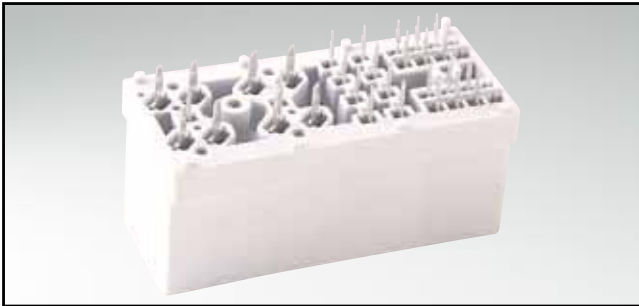
ORDER DATA

(Dim. = mm)

Number of positions	Contacts	Part number Quality class 3 (gold flash)	Part number Quality class 1 (0,8µm Au mating area)
22	14x signal / 8x power	ATC22 W08 FGRAS5 X	ATC22 W08 FGRCSS5 X
30	22x signal / 8x power	ATC30 W08 FGRAS5 X	ATC30 W08 FGRCSS5 X
34	26x signal / 8x power	ATC34 W08 FGRAS5 X	ATC34 W08 FGRCSS5 X

ADVANCEDTCA

Female connector – straight – press fit – stamped contacts

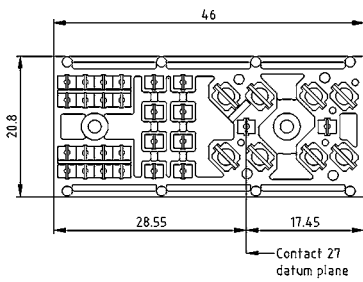


RoHS compliant

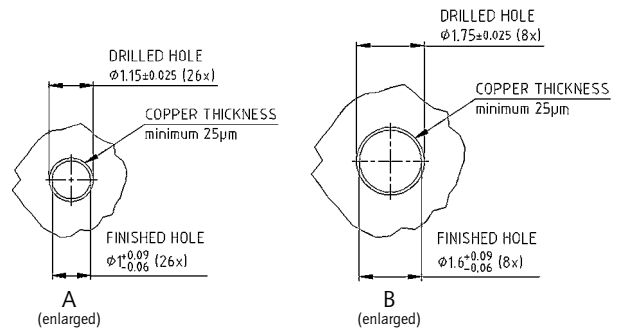
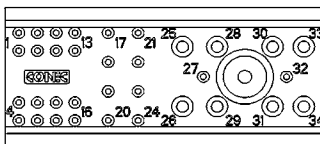
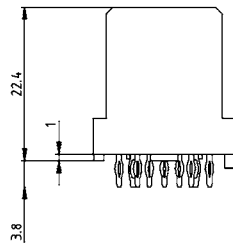
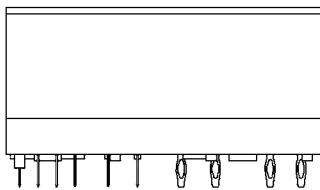
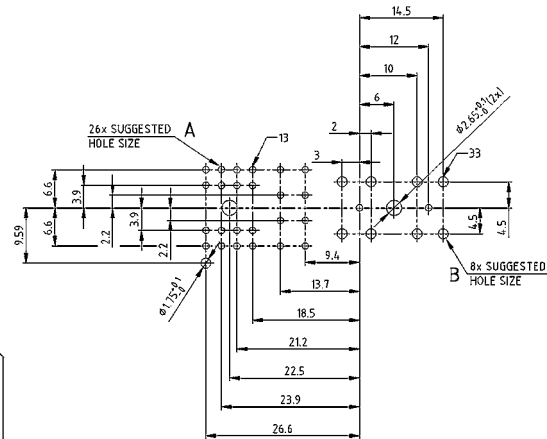
DESCRIPTION

- Signal and power contacts
- Alternatively 22, 30 or 34 positions
- Eye of the needle press fit design, tin plated
- Mating area: gold plated quality class 1 or alternative quality class 3
- Special contact loadings possible on request

PRODUCT DRAWING



PCB-hole pattern (34 positions)

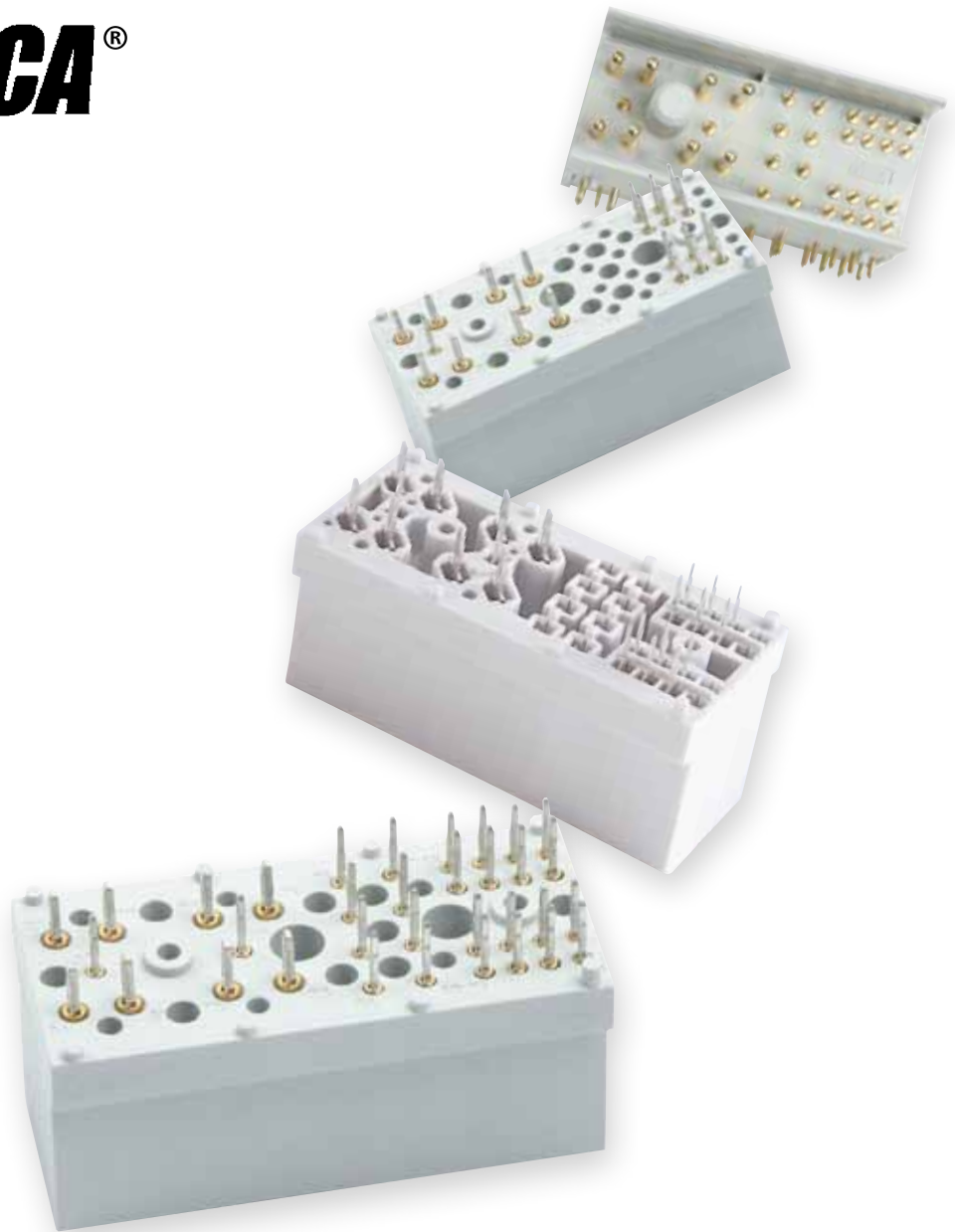


ORDER DATA

(Dim. = mm)

Number of positions	Contacts	Part number Quality class 3 (gold flash)	Part number Quality class 1 (0,8µm Au mating area)
22	14x signal / 8x power	46-000013	46-000011
30	22x signal / 8x power	46-000023	46-000021
34	26x signal / 8x power	46-000033	46-000031

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