

VALUKUMPU CONNECTORS

DIN 41612 / IEC 60603-2 (2.54 mm grid)

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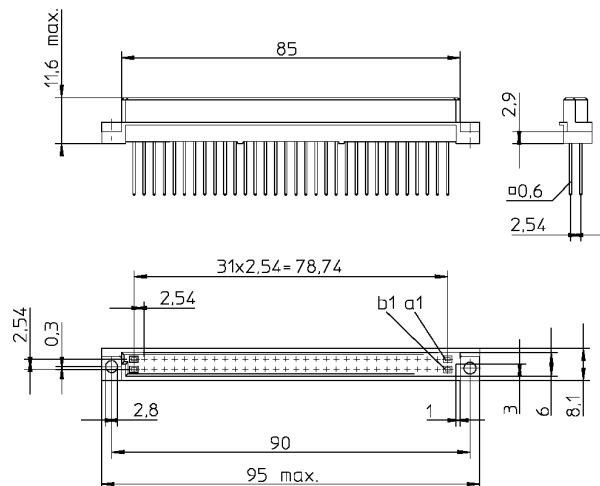
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Distributors:

- Elgood (Finland)
- Cambridge Connectors (UK, USA)
- Encitech Connectors AB (Sweden)
- YE International Russia (Russia)

TWO-PART CONNECTORS FOR PRINTED BOARDS

FEMALE



TYPE B

IEC 603
DIN 41612

MATERIALS

Connector body	Glass fiber filled polyester
Female contact	Phosphor bronze
Contact plating	Gold over nickel

ELECTRIC DATA

Current rating	1.5 A at 20 °C 1 A at 80 °C 0.75 A at 100 °C
Proof voltage	Contact/contact 1000 V (rms) Contact/test panel 1550 V (rms)
Insulation resistance	$\geq 10^6 \text{ M}\Omega$
Contact resistance	$\leq 20 \text{ m}\Omega$

PHYSICAL DATA

Temperature range	-55 °C...+125 °C
Flammability	UL 94 V-O
Insertion force	32 pole $\leq 30 \text{ N}$ 64 pole $\leq 60 \text{ N}$
Retention force	$\geq 0.15 \text{ N/contact pair}$





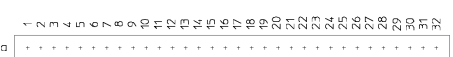

Mechanical endurance, salt mist, industrial atmosphere and other requirements according to IEC 603.

QUALITY DATA

Contact surfaces mechanically polished.
Dual-beam female contact profiled to trapezoidal form.

VK or P – **B** **064** **F** **S** – **C1** **A** – **0,8** / **5** **–001**








B	CONNECTOR TYPE	
	Two row body 1A	B

064	CONTACT ARRANGEMENT AND NUMBER OF POSITIONS	
		016
		032
		064
		A32
		B32
		X32
	Special types	Z

F	TYPE OF CONTACT	
	Female	F

S	TYPE OF TERMINATION	
	Solder Wrap Press-in	S W P

C1	Complete connector with contact finish of gold
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A	TERMINATION STYLE		
		F	FP
Straight solder tail for 1.6 mm thick boards Straight solder tail for 2.4 mm thick boards (Press-in from 1.5 to 4.0 mm) Wire wrap tail Wire wrap tail	D		
	E		
	F		
	H		

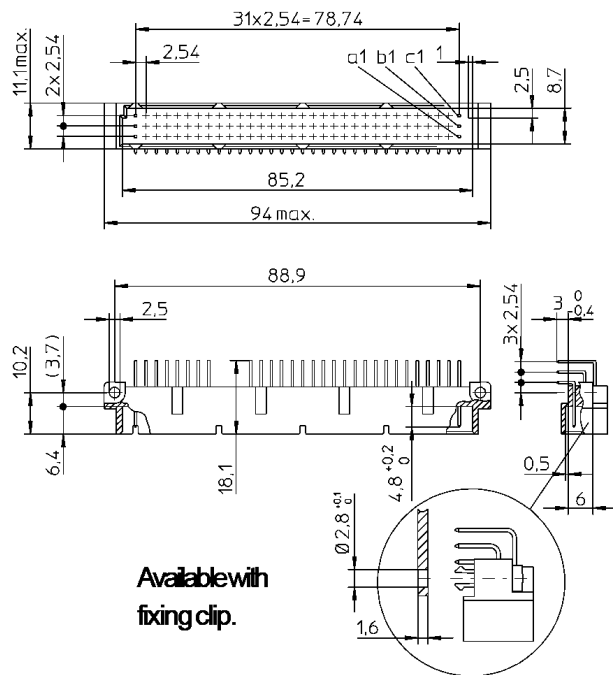
0,8	CONTACT FINISH	
0,8	0.8 µm hard gold over 2 µm nickel	
1,25	1.25 µm hard gold over 2 µm nickel	
2,5	2.5 µm hard gold over 3 µm nickel	
...	other platings on request	

5	TERMINATION FINISH	
5	1 µm tinlead over nickel on press-in area	
1,25	5 µm tin over nickel	
0,1	1.25 µm gold over nickel on contact area (5mm from the end)	
...	0.1 µm gold over nickel	
...	other platings on request	

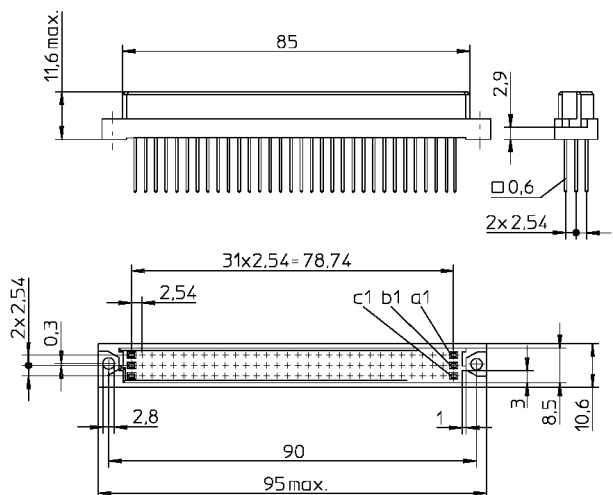
–001	MARKING FOR SPECIAL TYPES	
Eg	First Make – Last Break Option: Male pins in any row may be extended 0.50 mm for ground before signal applications, please contact manufacturer.	

TWO-PART CONNECTORS FOR PRINTED BOARDS

MALE



FEMALE



TYPE C

IEC 603
DIN 41612

MATERIALS

Connector body	Glass fiber filled polyester
Female contact	Phosphor bronze
Male contact	Copper alloy
Contact plating	Gold over nickel

ELECTRIC DATA

Current rating	1.5 A at 20 °C 1 A at 80 °C 0.75 A at 100 °C
Proof voltage	Contact/contact 1000 V (rms) Contact/test panel 1550 V (rms)
Insulation resistance	≥ 10 ⁶ MΩ
Contact resistance	≤ 20 mΩ

PHYSICAL DATA

Temperature range	-55 °C...+125 °C
Flammability	UL 94 V-O
Insertion force	32 pole ≤ 30 N 64 pole ≤ 60 N 96 pole ≤ 90 N
Retention force	≥ 0.15 N/contact pair

Mechanical endurance, salt mist, industrial atmosphere and other requirements according to IEC 603.




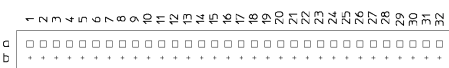
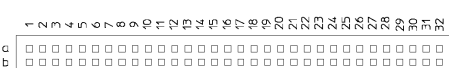
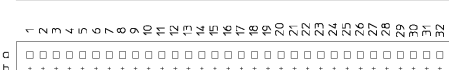
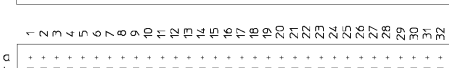
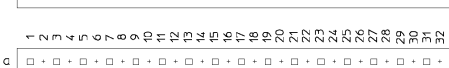
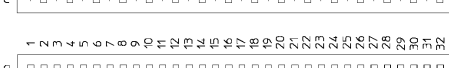
QUALITY DATA

Contact surfaces mechanically polished.
Dual-beam female contact profiled to trapezoidal form.

Frames, see C/1L or PC/1L.

VK or P – **C** **064** **M** **S** – **C1** **A** – **0,8** / **5** **–001**

C	CONNECTOR TYPE
	Three row body 1A
	C

064	CONTACT ARRANGEMENT AND NUMBER OF POSITIONS
	016
	032
	048
	064
	096
	A32
	B32
	X32
	B64
Special types	Z

M	TYPE OF CONTACT
	Female
	Male
	F
	M

S	TYPE OF TERMINATION
	Solder
	Wrap
	Press-in
	S
	W
	P

C1	
	Complete connector with contact finish of gold

A	TERMINATION STYLE
	F
	FP
	M
	MP
Right angle solder tail for 1.6 mm thick boards	A
Straight solder tail for 1.6 mm thick boards	D
Straight solder tail for 2.4 mm thick boards (Press-in from 1.5 to 4.0 mm)	E
Wire wrap tail	F
Wire wrap tail	H
Hand solder eyelet	O

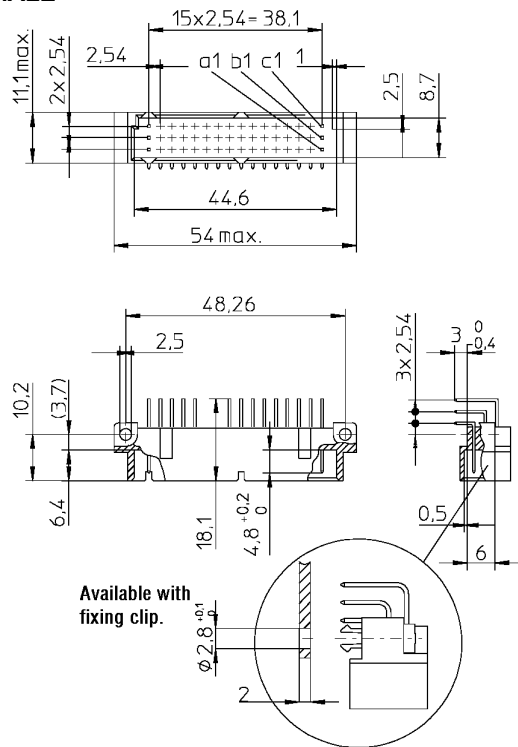
0,8	CONTACT FINISH
0,8	0.8 µm hard gold over 2 µm nickel
1,25	1.25 µm hard gold over 2 µm nickel
2,5	2.5 µm hard gold over 3 µm nickel
...	other platings on request

5	TERMINATION FINISH
1	1 µm tinlead over nickel on press-in area
5	5 µm tin over nickel
1,25	1.25 µm gold over nickel on contact area (5mm from the end)
0,1	0.1 µm gold over nickel
...	other platings on request

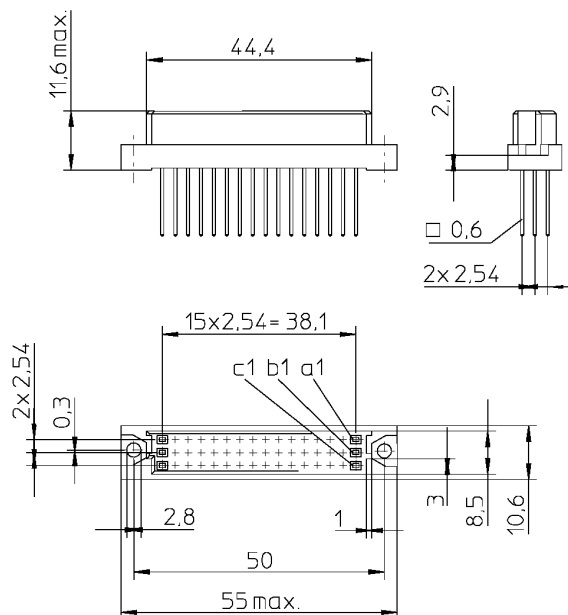
–001	MARKING FOR SPECIAL TYPES
Eg.	First make – Last Break Option: Male pins in any row may be extended 0.50 mm for ground before signal applications, please contact manufacturer.

TWO-PART CONNECTORS FOR PRINTED BOARDS

MALE



FEMALE



TYPE C/2

Half length of type C in
IEC 603 and
DIN 41612

MATERIALS

Connector body	Glass fiber filled PBT
Female contact	Phosphor bronze
Male contact	Copper alloy
Contact plating	Gold over nickel

ELECTRIC DATA

Current rating	1.5 A at 20 °C 1 A at 80 °C 0.75 A at 100 °C
Proof voltage	Contact/contact 1000 V (rms) Contact/test panel 1550 V (rms)
Insulation resistance	≥ 10 ⁶ MΩ
Contact resistance	≤ 20 mΩ

PHYSICAL DATA

Temperature range	-55 °C...+125 °C
Flammability	UL 94 V-O
Insertion force	32 pole ≤ 30 N 48 pole ≤ 50 N
Retention force	≥ 0.15 N/contact pair










Mechanical endurance, salt mist, industrial atmosphere and other requirements according to IEC 603.

QUALITY DATA

Contact surfaces mechanically polished.
Dual-beam female contact profiled to trapezoidal form.

VK – **C/2** **032** **M** **S** – **C1** **A** – **0,8** / **5** **-001** **- HT**












C/2	CONNECTOR TYPE
	Two row body 1A Half length
	C/2

032	CONTACT ARRANGEMENT AND NUMBER OF POSITIONS
	008
	016
	024
	032
	048
	A16
	B16
	X16
	B32
Special types	Z

M	TYPE OF CONTACT
	Female
	Male
	F M

S	TYPE OF TERMINATION
	Solder
	Wrap
	Press-in
	S W P

C1	
	Complete connector with contact finish of gold

A	TERMINATION STYLE				
		F	FP	M	MP
Right angle solder tail for 1.6 mm thick boards	A				
Straight solder tail for 1.6 mm thick boards	D				
Straight solder tail for 2.4 mm thick boards (Press-in from 1.5 to 4.0 mm)	E				
Wire wrap tail	F				
Wire wrap tail	H				
Hand solder eyelet	O				

0,8	CONTACT FINISH
0,8	0.8 µm hard gold over 2 µm nickel
1,25	1.25 µm hard gold over 2 µm nickel
2,5	2.5 µm hard gold over 3 µm nickel
...	other platings on request

5	TERMINATION FINISH
1	1 µm tinlead over nickel on press-in area
5	5 µm tin over nickel
1,25	1.25 µm gold over nickel on contact area (5mm from the end)
0,1	0.1 µm gold over nickel
...	other platings on request

-001	MARKING FOR SPECIAL TYPES
E	Special requirements

-HT	ALTERNATIVE HOUSING MATERIAL
	High temperature resistant plastic housing material, max +260°C / 10 sec.

VK or P – **C/3** **020** **M** **S** – **C1** **A** – **0,8** / **5** **-001**











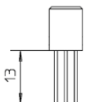

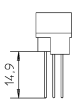

C/3	CONNECTOR TYPE
	Three row body 1A
	C/3

020	CONTACT ARRANGEMENT AND NUMBER OF POSITIONS	
	<div><div>↵ N M ↵ L D ↵ S S ↵</div><div>a b c</div><div><div><div>□ □ □ □ □ □ □ □</div><div>+ + + + + + + +</div><div>□ □ □ □ □ □ □ □</div></div><div>↵ N M ↵ L D ↵ S S ↵</div><div>a b c</div><div><div>□ □ □ □ □ □ □ □</div><div>□ □ □ □ □ □ □ □</div><div>□ □ □ □ □ □ □ □</div></div></div></div>	020
		030

M	TYPE OF CONTACT	
	Female	F
	Male	M

S	TYPE OF TERMINATION	
	Solder	S
	Wrap	W
	Press-in	P

C1	
	Complete connector with contact finish of gold

A	TERMINATION STYLE				
		F	FP	M	MP
Right angle solder tail for 1.6 mm thick boards	A				
Straight solder tail for 1.6 mm thick boards	D				
Straight solder tail for 2.4 mm thick boards (Press-in from 1.5 to 4.0 mm)	E				
Wire wrap tail	F				
Wire wrap tail	H				
Hand solder eyelet	O				

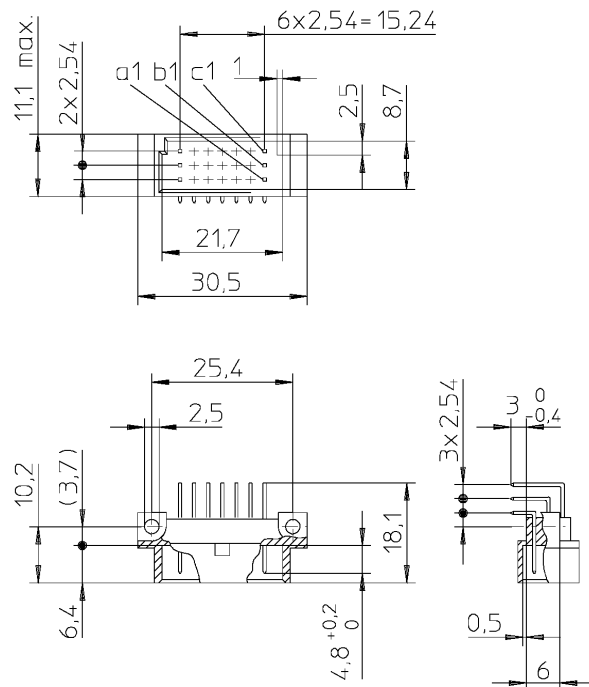
0,8	CONTACT FINISH
0,8	0.8 µm hard gold over 2 µm nickel
1,25	1.25 µm hard gold over 2 µm nickel
2,5	2.5 µm hard gold over 3 µm nickel
...	other platings on request

5	TERMINATION FINISH
1	1 µm tinlead over nickel on press-in area
5	5 µm tin over nickel
1,25	1.25 µm gold over nickel on contact area (5mm from the end)
0,1	0.1 µm gold over nickel
...	other platings on request

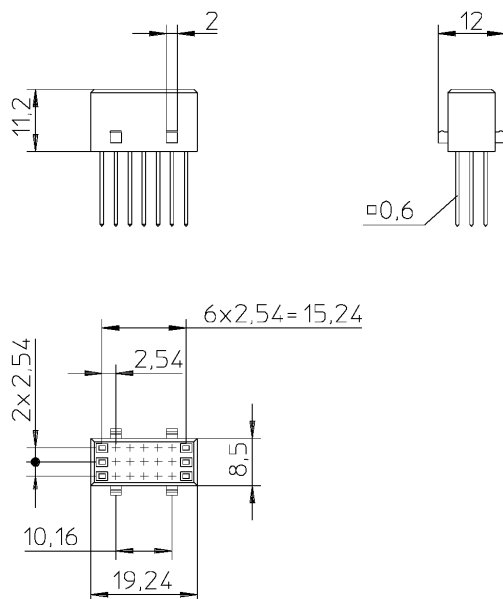
-001	MARKING FOR SPECIAL TYPES
Eg	First Make – Last Break Option: Male pins in any row may be extended 0.50 mm for ground before signal applications, please contact manufacturer.

TWO-PART CONNECTORS FOR PRINTED BOARDS

MALE



FEMALE



TYPE C/4

IEC 603
 DIN 41612
 Complementary to type C

MATERIALS

Connector body	Glass fiber filled polyester
Female contact	Phosphor bronze
Male contact	Copper alloy
Contact plating	Gold over nickel

ELECTRIC DATA

Current rating	1.5 A at 20 °C 1 A at 80 °C 0.75 A at 100 °C	
Proof voltage	Contact/contact 1000 V (rms) Contact/test panel 1550 V (rms)	
Insulation resistance	≥ 10 ⁶ MΩ	
Contact resistance	≤ 20 mΩ	
Minimum distance		
between	Creepage	Clearance
- adjacent contacts	1.2 mm	1.2 mm
- contact and chassis	1.8 mm	1.6 mm

PHYSICAL DATA

Temperature range	-55 °C...+125 °C
Flammability	UL 94 V-O
Insertion force	21 pole ≤ 20 N
Retention force	≥ 0.15 N/contact pair

Mechanical endurance, salt mist, industrial atmosphere and other requirements according to IEC 603.

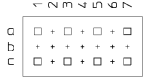
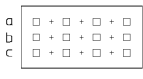


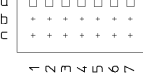



QUALITY DATA

Contact surfaces mechanically polished.
 Dual-beam female contact profiled to trapezoidal form.
 Half length of female C/4 is also available (3x3 pos.)

Frames, see C/4L.
 Housings, see C/4H.

VK or P – **C/4** **014** **M** **S** – **C1** **A** – **0,8** / **5** **–001**















C/4	CONNECTOR TYPE
	Three row body 1A Quarter length C
	C/4

014	CONTACT ARRANGEMENT AND NUMBER OF POSITIONS
	008
	012
	014
	021
	A07
	B07
	X10
	B14
Special types	Z

M	TYPE OF CONTACT
	Female
	Male
	F M

S	TYPE OF TERMINATION
	Solder
	Wrap
	Press-in
	S W P

C1	
	Complete connector with contact finish of gold

A		TERMINATION STYLE			
		F	FP	M	MP
Right angle solder tail for 1.6 mm thick boards	A				
Straight solder tail for 1.6 mm thick boards	D				
Straight solder tail for 2.4 mm thick boards (Press-in from 1.5 to 4.0 mm)	E				
Wire wrap tail	F				
Wire wrap tail	H				
Hand solder eyelet	O				






0,8	CONTACT FINISH
0,8	0.8 µm hard gold over 2 µm nickel
1,25	1.25 µm hard gold over 2 µm nickel
2,5	2.5 µm hard gold over 3 µm nickel
...	other platings on request

5	TERMINATION FINISH
1	1 µm tinlead over nickel on press-in area
5	5 µm tin over nickel
1,25	1.25 µm gold over nickel on contact area (5mm from the end)
0,1	0.1 µm gold over nickel
...	other platings on request

–001	MARKING FOR SPECIAL TYPES
Eg	First Make – Last Break Option: Male pins in any row may be extended 0.50 mm for ground before signal applications, please contact manufacturer.

VK or P – **D** **032** **M** **S** – **C1** **A** – **0,8** / **5** **–001**

D	CONNECTOR TYPE
	Two row body 4A
	D

032	CONTACT ARRANGEMENT AND NUMBER OF POSITIONS
	016
	032
	A16
	C16
	X16
Special types	Z

M	TYPE OF CONTACT
	Female
	Male
	F
	M

S	TYPE OF TERMINATION
	Solder
	Wrap
	S
	W

C1	
	Complete connector with contact finish of gold

A	TERMINATION STYLE
	F
	M
Right angle solder tail for 1.6 mm thick boards	A
Straight solder tail for 2.4 mm thick boards	E
Wire wrap tail	H

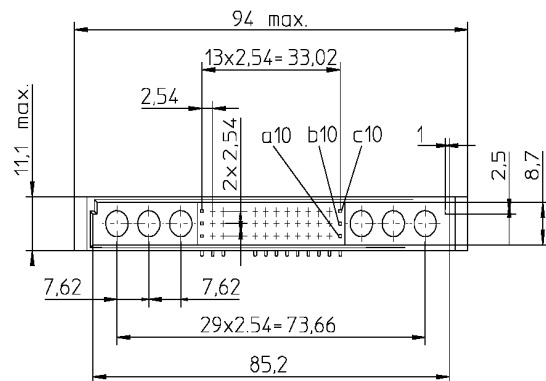
0,8	CONTACT FINISH
0,8	0.8 µm hard gold over 2 µm nickel
1,25	1.25 µm hard gold over 2 µm nickel
2,5	2.5 µm hard gold over 3 µm nickel
...	other platings on request

5	TERMINATION FINISH
5	5 µm tin over nickel
1,25	1.25 µm gold over nickel on contact area (5mm from the end)
0,1	0.1 µm gold over nickel
...	other platings on request

–001	MARKING FOR SPECIAL TYPES
	Please contact manufacturer.

TWO-PART CONNECTORS FOR PRINTED BOARDS

MALE



TYPE M

IEC 603
DIN 41612

MATERIALS

Connector body
Female contact
Male contact
Contact plating

Glass fiber filled polyester
Phosphor bronze
Copper alloy
Gold over nickel

ELECTRIC DATA

Current rating
- Normal pins

1.5 A at 20 °C
1 A at 80 °C
0.75 A at 100 °C

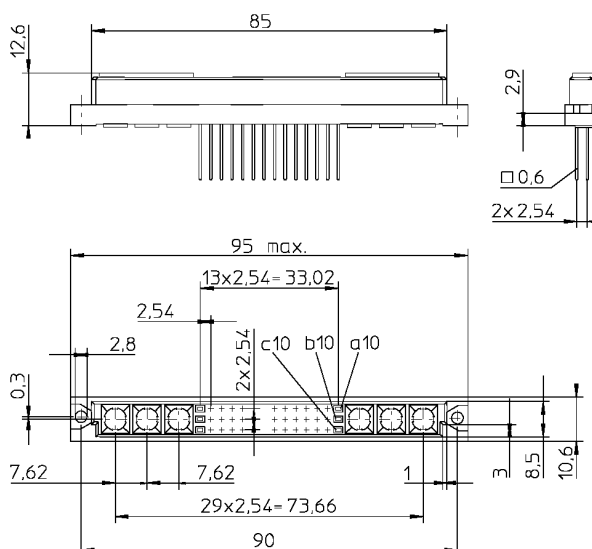
- Power contacts
Proof voltage

40 A max
Contact/contact 1000 V (rms)
Contact/test panel 1550 V (rms)

Insulation resistance
Contact resistance

$\geq 10^6$ M Ω
 ≤ 20 m Ω

FEMALE



PHYSICAL DATA

Temperature range

-55 °C...+125 °C

Flammability

UL 94 V-O

Insertion force
(without coaxial
contacts)

42 pole ≤ 40 N
60 pole ≤ 57 N
78 pole ≤ 74 N

Retention force

≥ 0.15 N/contact pair




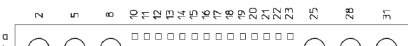

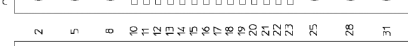
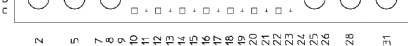





Mechanical endurance, salt mist, industrial atmosphere
and other requirements according to IEC 603.

QUALITY DATA

Contact surfaces mechanically polished.
Dual-beam female contact profiled to trapezoidal form.

VK – **M** **052** **M** **S** – **C1** **A** – **0,8** / **5** **–001**















M CONNECTOR TYPE	
Three row body	M

052 CONTACT ARRANGEMENT AND NUMBER OF POSITIONS	
	024
	016
	008
	042
	028
	014
	060
	040
	020
	078
	052
	026
Special types	Z

M TYPE OF CONTACT	
Female	F
Male	M

S TYPE OF TERMINATION	
Solder	S
Wrap	W
Press-in	P

C1	
Complete connector with contact finish of gold	

A TERMINATION STYLE		F	FP	M	MP
Right angle solder tail for 1.6 mm thick boards	A				
Straight solder tail for 1.6 mm thick boards	D				
Straight solder tail for 2.4 mm thick boards (Press-in from 1.5 to 4.0 mm)	E				
Wire wrap tail	F				
Wire wrap tail	H				
Wire wrap tail	K				

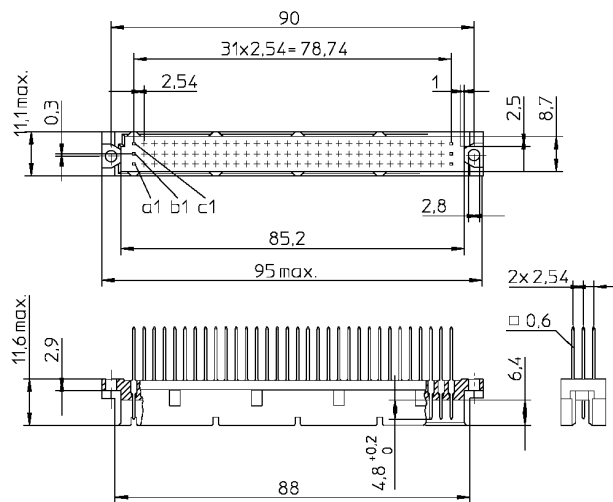
0,8 CONTACT FINISH	
0,8	0.8 µm hard gold over 2 µm nickel
1,25	1.25 µm hard gold over 2 µm nickel
2,5	2.5 µm hard gold over 3 µm nickel
...	other platings on request

5 TERMINATION FINISH	
1	1 µm tin over nickel on press-in area
5	5 µm tin over nickel
1,25	1.25 µm gold over nickel on contact area (5mm from the end)
0,1	0.1 µm gold over nickel
...	other platings on request

–001 MARKING FOR SPECIAL TYPES	
Eg.	First make – Last Break Option: Male pins in any row may be extended 0.50 mm for ground before signal applications.

TWO-PART CONNECTORS FOR PRINTED BOARDS

MALE



TYPE R

Reversed
IEC 603
DIN 41612

MATERIALS

Connector body	Glass fiber filled polyester
Female contact	Phosphor bronze
Male contact	Copper alloy
Contact plating	Gold over nickel

ELECTRIC DATA

Current rating	1.5 A at 20 °C 1 A at 80 °C 0.75 A at 100 °C	
Proof voltage	Contact/contact 1000 V (rms) Contact/test panel 1550 V (rms)	
Insulation resistance	≥ 10 ⁶ MΩ	
Contact resistance	≤ 20 mΩ	
Minimum distance		
between	Creepage	Clearance
- adjacent contacts	1.2 mm	1.2 mm
- contact and chassis	1.8 mm	1.6 mm

PHYSICAL DATA

Temperature range	-55 °C...+125 °C
Flammability	UL 94 V-O
Insertion force	32 pole ≤ 30 N 64 pole ≤ 60 N 96 pole ≤ 90 N
Retention force	≥ 0.15 N/contact pair

Mechanical endurance, salt mist, industrial atmosphere and other requirements according to IEC 603.

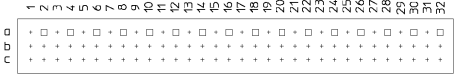
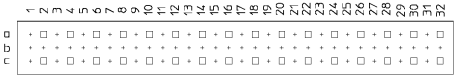
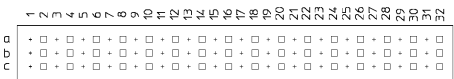



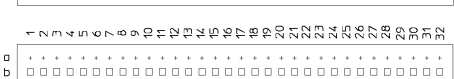


QUALITY DATA

Contact surfaces mechanically polished.
Dual-beam female contact profiled to trapezoidal form.

Frames, see sect. 8

VK or P – **R** **064** **M** **S** – **C1** **A** – **0,8** / **5** **–001**







R	CONNECTOR TYPE	
	Three row body 1A Reversed	R

064	CONTACT ARRANGEMENT AND NUMBER OF POSITIONS	
	016	
	032	
	048	
	064	
	096	
	A32	
	B32	
	X32	
	B64	
Special types	Z	

M	TYPE OF CONTACT	
	Male	M

S	TYPE OF TERMINATION	
	Solder Wrap Press-in	S W P

C1	Complete connector with contact finish of gold
----	--

A	TERMINATION STYLE			
		F	MP	M
Right angle solder tail for 1.6 mm thick boards	A			
Straight solder tail for 1.6 mm thick boards	D			
Straight solder tail for 2.4 mm thick boards (Press-in from 1.5 to 4.0 mm)	E			
Wire wrap tail	F			
Wire wrap tail	H			
Wire wrap tail	L			

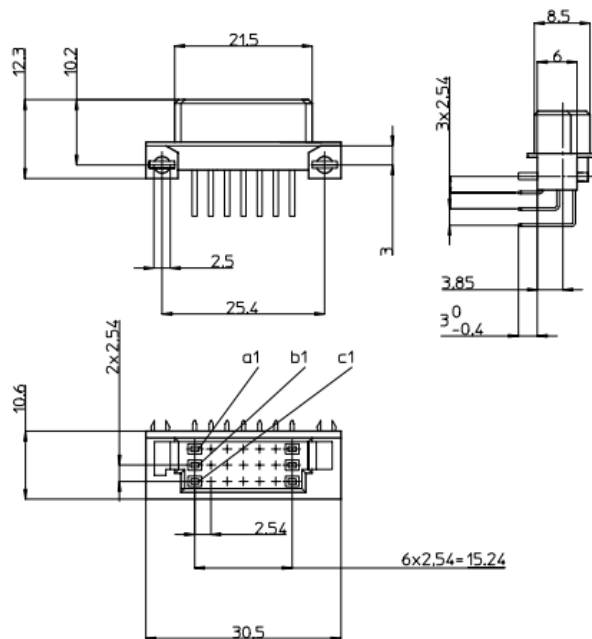
0,8	CONTACT FINISH	
0,8	0.8 µm hard gold over 2 µm nickel	
1,25	1.25 µm hard gold over 2 µm nickel	
2,5	2.5 µm hard gold over 3 µm nickel	
...	other platings on request	

5	TERMINATION FINISH	
1	1 µm tinlead over nickel on press-in area	
5	5 µm tin over nickel	
1,25	1.25 µm gold over nickel on contact area (5mm from the end)	
0,1	0.1 µm gold over nickel	
...	other platings on request	

–001	MARKING FOR SPECIAL TYPES	
Eg	First Make – Last Break Option: Male pins in any row may be extended 0.50 mm for ground before signal in types D and E.	

TWO-PART CONNECTORS FOR PRINTED BOARDS

FEMALE



TYPE R/4

Reversed
 IEC 603
 DIN 41612

MATERIALS

Connector body	Glass fiber filled polyester
Female contact	Phosphor bronze
Male contact	Copper alloy
Contact plating	Gold over nickel

ELECTRIC DATA

Current rating	1.5 A at 20 °C 1 A at 80 °C 0.75 A at 100 °C	
Proof voltage	Contact/contact 1000 V (rms) Contact/test panel 1550 V (rms)	
Insulation resistance	≥ 10 ⁶ MΩ	
Contact resistance	≤ 20 mΩ	
Minimum distance		
between	Creepage	Clearance
- adjacent contacts	1.2 mm	1.2 mm
- contact and chassis	1.8 mm	1.6 mm

PHYSICAL DATA

Temperature range	-55 °C...+125 °C
Flammability	UL 94 V-O
Insertion force	32 pole ≤ 30 N 64 pole ≤ 60 N 96 pole ≤ 90 N
Retention force	≥ 0.15 N/contact pair

Mechanical endurance, salt mist, industrial atmosphere and other requirements according to IEC 603.

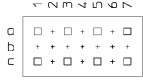
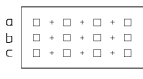

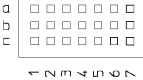




QUALITY DATA

Contact surfaces mechanically polished.
 Dual-beam female contact profiled to trapezoidal form.

Frames, see sect. 8

VK – **R/4** **014** **F** **S** – **C1** **A** – **0,8** / **5** **–001**


R/4	CONNECTOR TYPE
	Three row body 1A Reversed Quarter length R
	R/4

014	CONTACT ARRANGEMENT AND NUMBER OF POSITIONS
	008
	012
	014
	021
	A07
	B07
	X10
	B14
Special types	Z

M	TYPE OF CONTACT
	Female
	Male
	F
	M

S	TYPE OF TERMINATION
	Solder
	Wrap
	Press-in
	S
	W
	P

C1	
	Complete connector with contact finish of gold

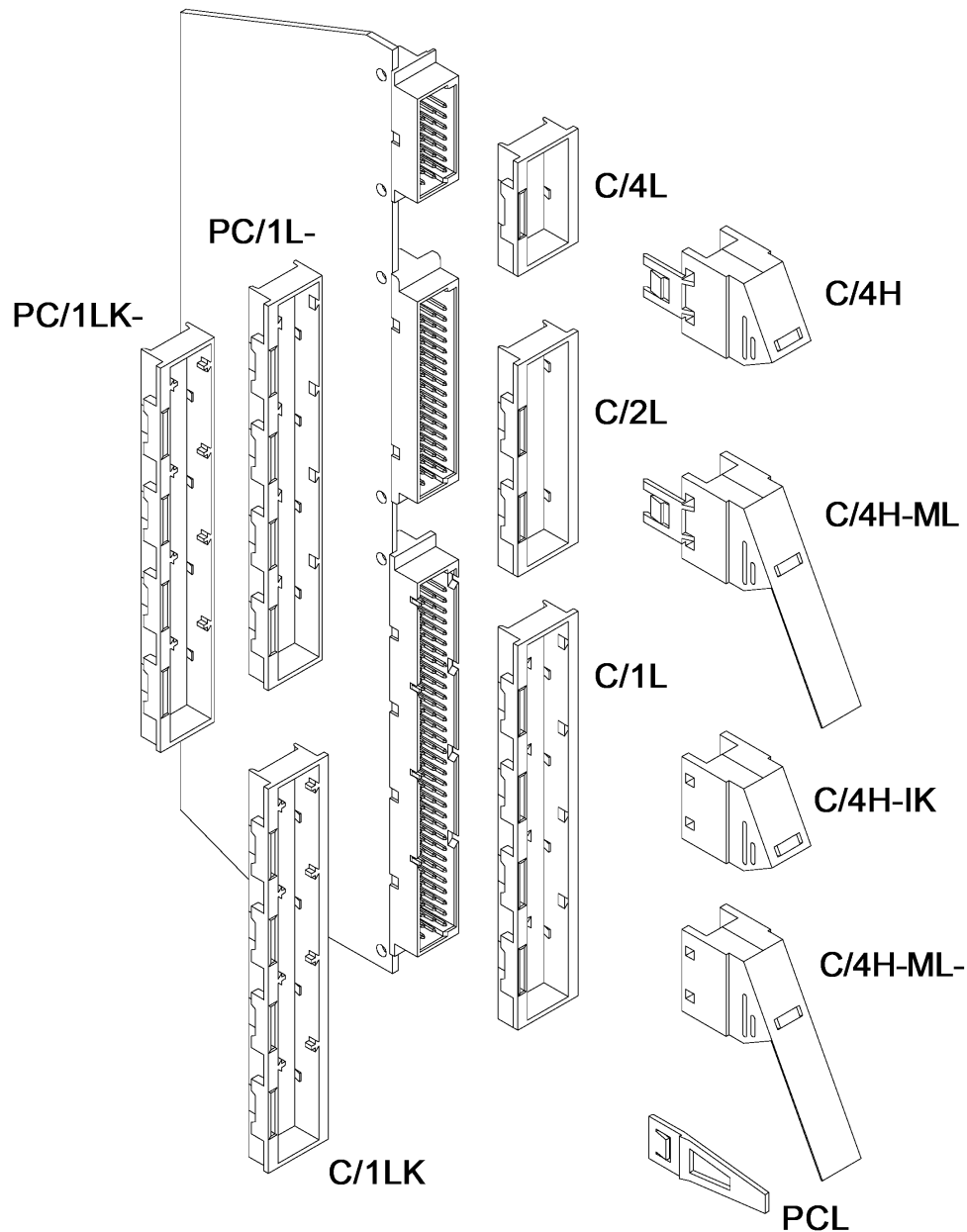
A	TERMINATION STYLE			
		F	MP	M
Right angle solder tail for 1.6 mm thick boards	A			
Straight solder tail for 1.6 mm thick boards	D			
Straight solder tail for 2.4 mm thick boards (Press-in from 1.5 to 4.0 mm)	E			
Wire wrap tail	F			
Wire wrap tail	H			
Wire wrap tail	L			

0,8	CONTACT FINISH
0,8	0.8 µm hard gold over 2 µm nickel
1,25	1.25 µm hard gold over 2 µm nickel
2,5	2.5 µm hard gold over 3 µm nickel
...	other platings on request

5	TERMINATION FINISH
1	1 µm tinlead over nickel on press-in area
5	5 µm tin over nickel
1,25	1.25 µm gold over nickel on contact area (5mm from the end)
0,1	0.1 µm gold over nickel
...	other platings on request

–001	MARKING FOR SPECIAL TYPES
Eg	First Make – Last Break Option: Male pins in any row may be extended 0.50 mm for ground before signal in types D and E.

LOCKING FRAMES FOR BACKPANEL SHROUDS AND MALE CONNECTORS



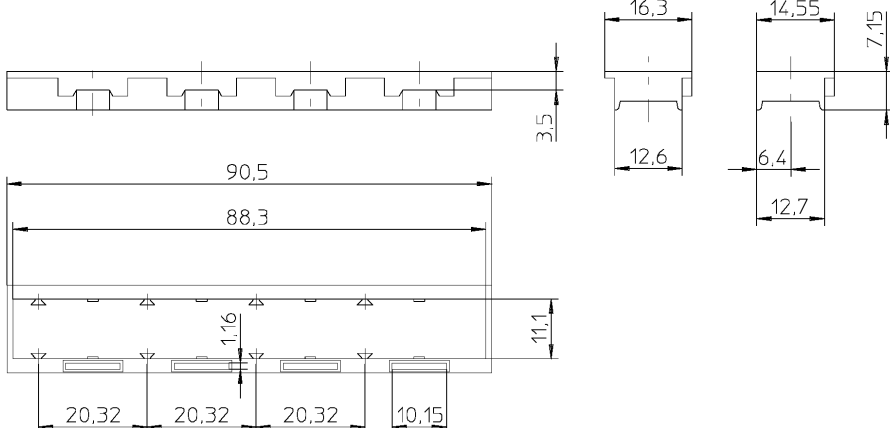
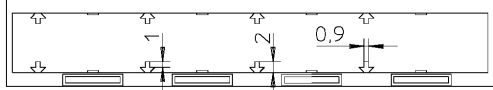
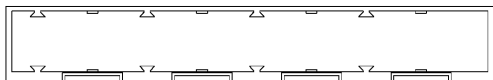
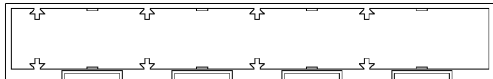
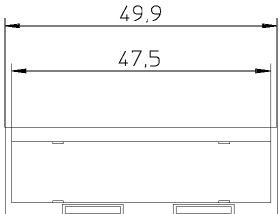
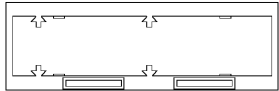
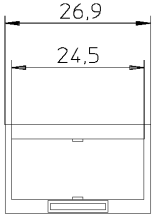
Material: Glass fiber filled polyester

Flammability: UL 94 V-O

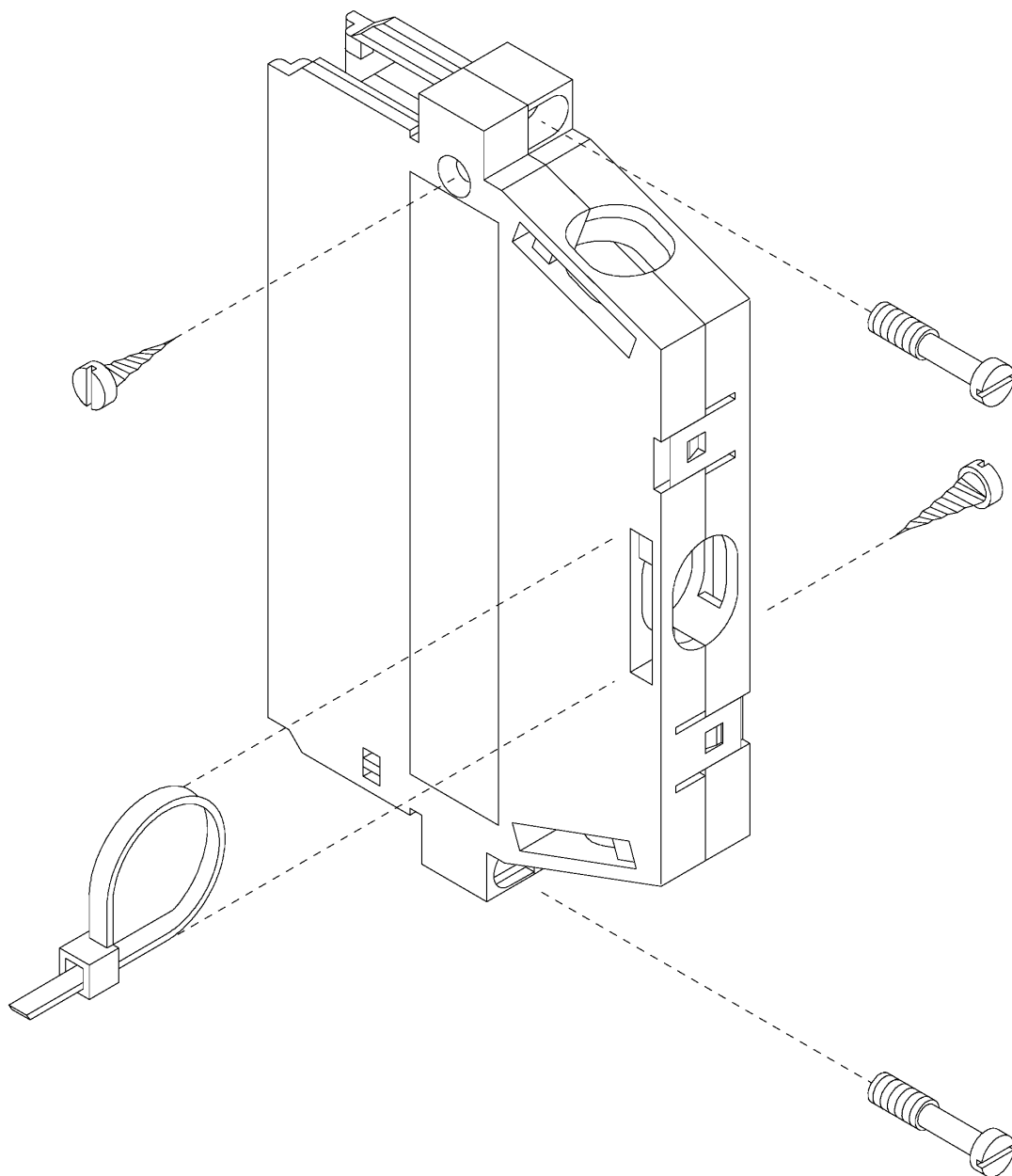
Colour: Grey

LOCKING FRAMES FOR BACKPANEL SHROUDS AND MALE CONNECTORS

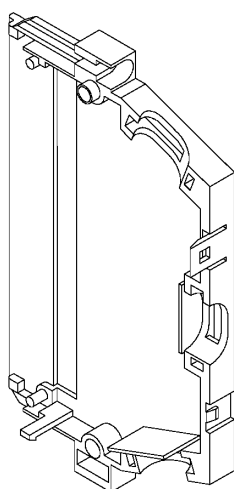
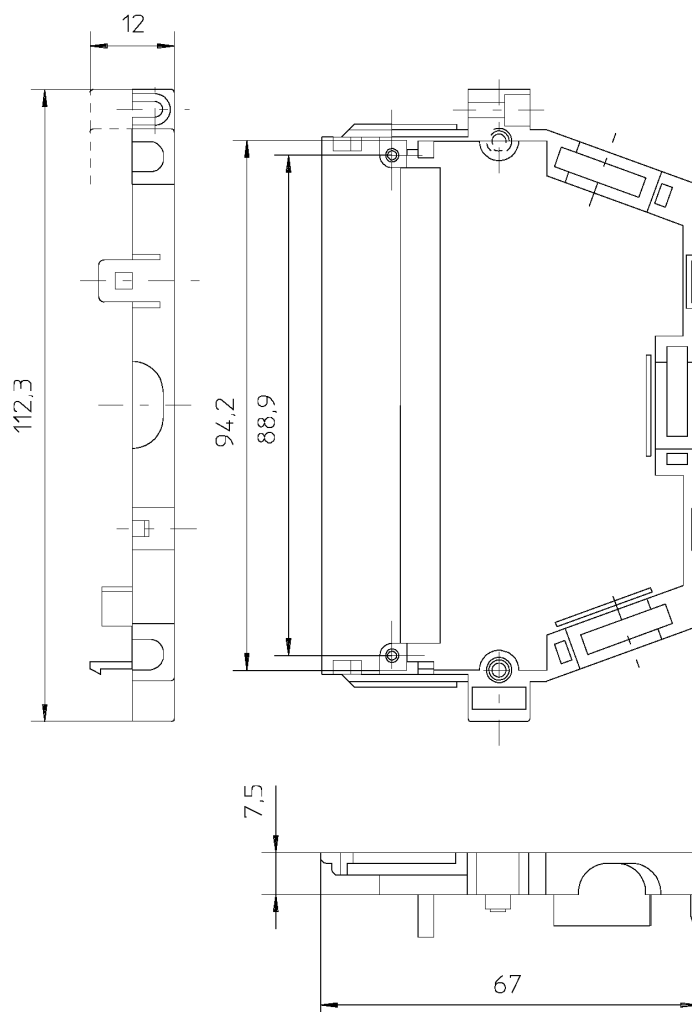
Ordering Code

C/1L		
C/1LK		with coding
PC/1L-8680		
PC/1LK-8681		with coding
C/2L		
C/2LK		with coding
C/4L		

CONNECTOR HOUSING SYSTEM CABLE HOUSING FOR C-, D- AND R -TYPE CONNECTORS

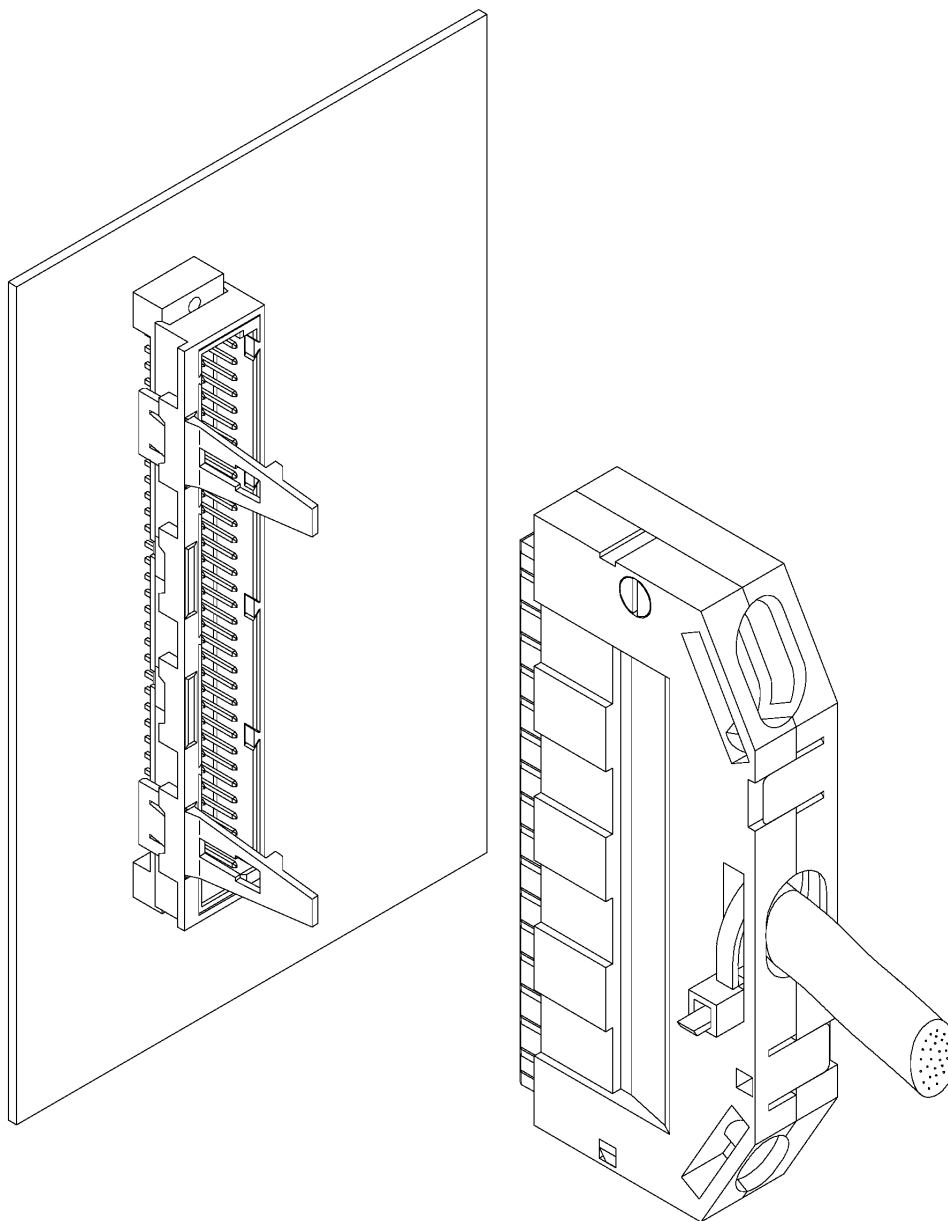


CABLE HOUSING FOR C, D AND R CONNECTORS



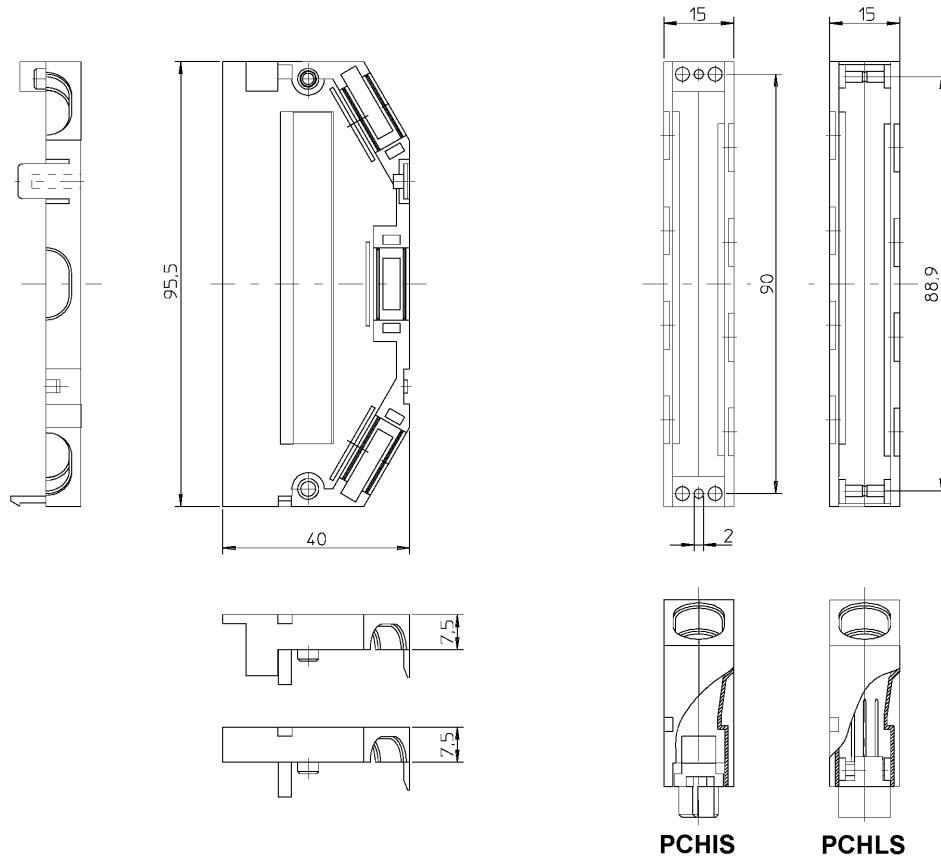
Ordering Code: PCH
(for the whole set): PCHS
Material: Polycarbonate
Colour: Grey

CONNECTOR HOUSING SYSTEM HOUSINGS FOR C-AND R-TYPE CONNECTORS

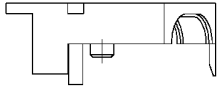
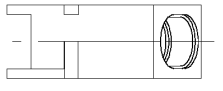
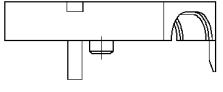
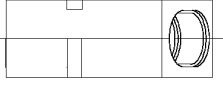


Material:	PC
Flammability:	UL 94 V-O
Colour:	Grey

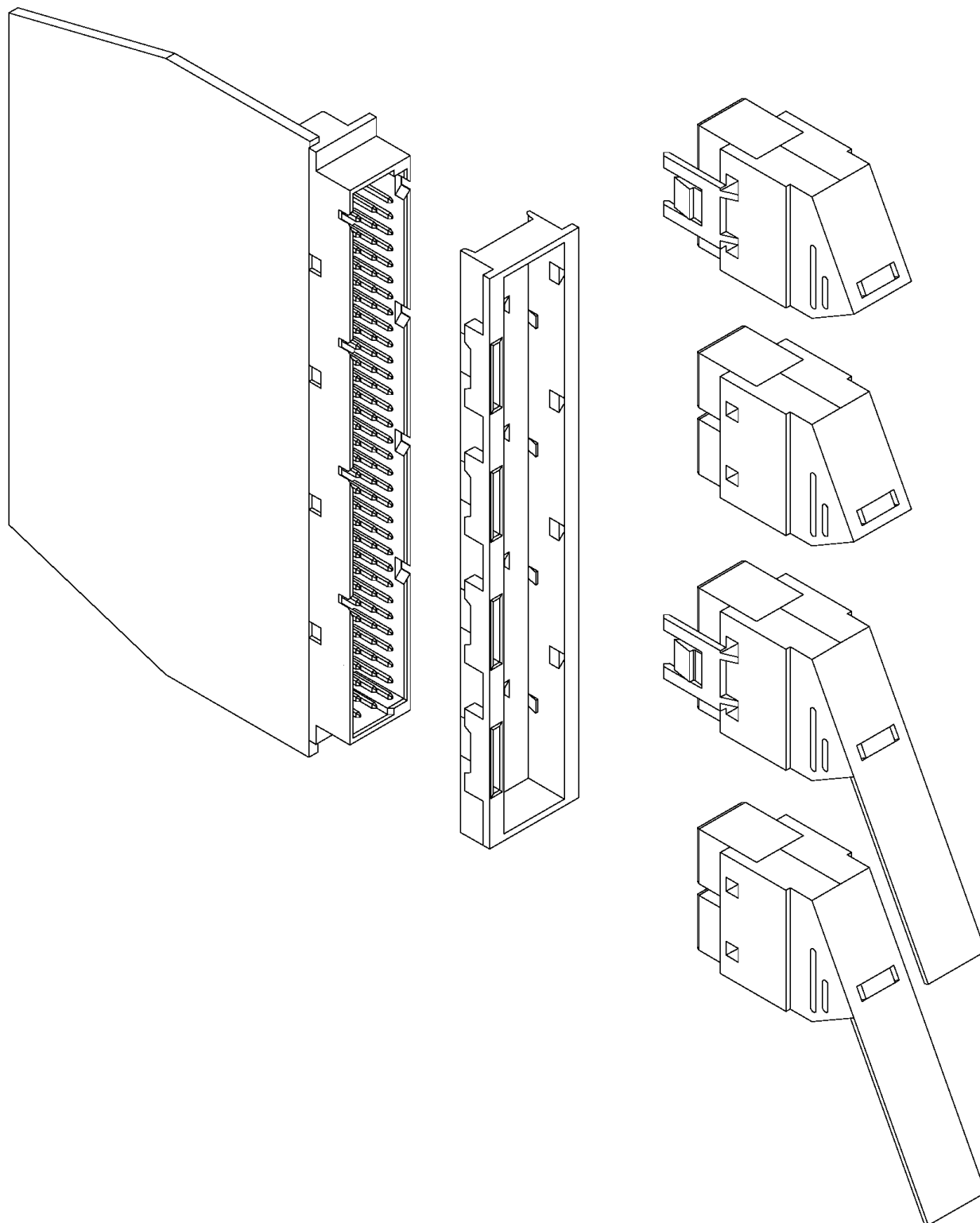
HOUSINGS FOR C AND R CONNECTORS



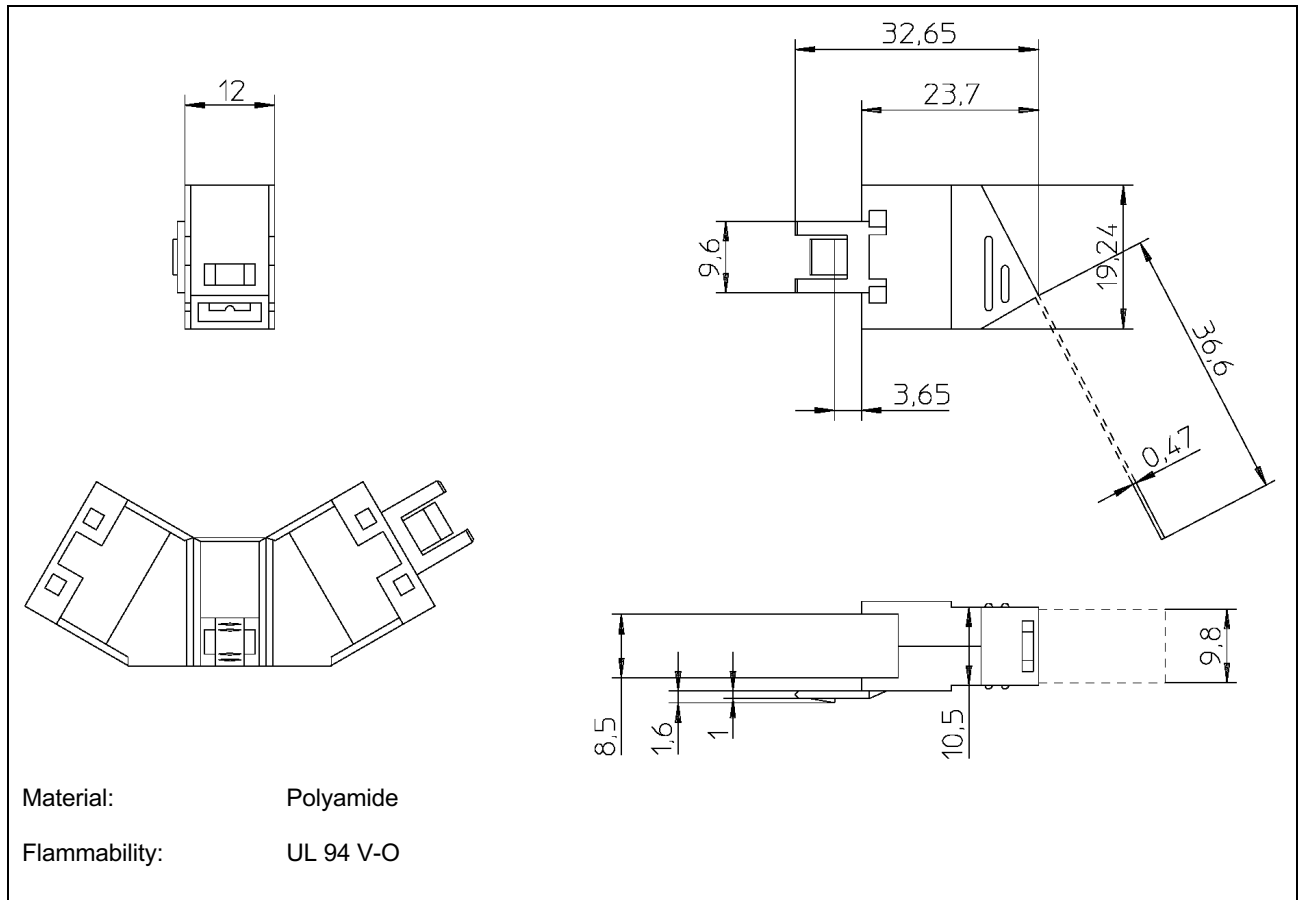
Ordering code

PCHI	Housing for C-female IDC, solder and wire wrap types and R-male	
PCHIS	Whole set consisting of two pieces of PCHI and the required screws and cable tie.	
PCHL	Housing for C-male and R-female	
PCHLS	Whole set consisting of two pieces of PCHL and the required screws and cable tie.	

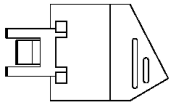
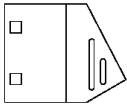
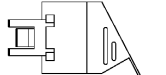

HOUSING FOR C/4 CONNECTOR



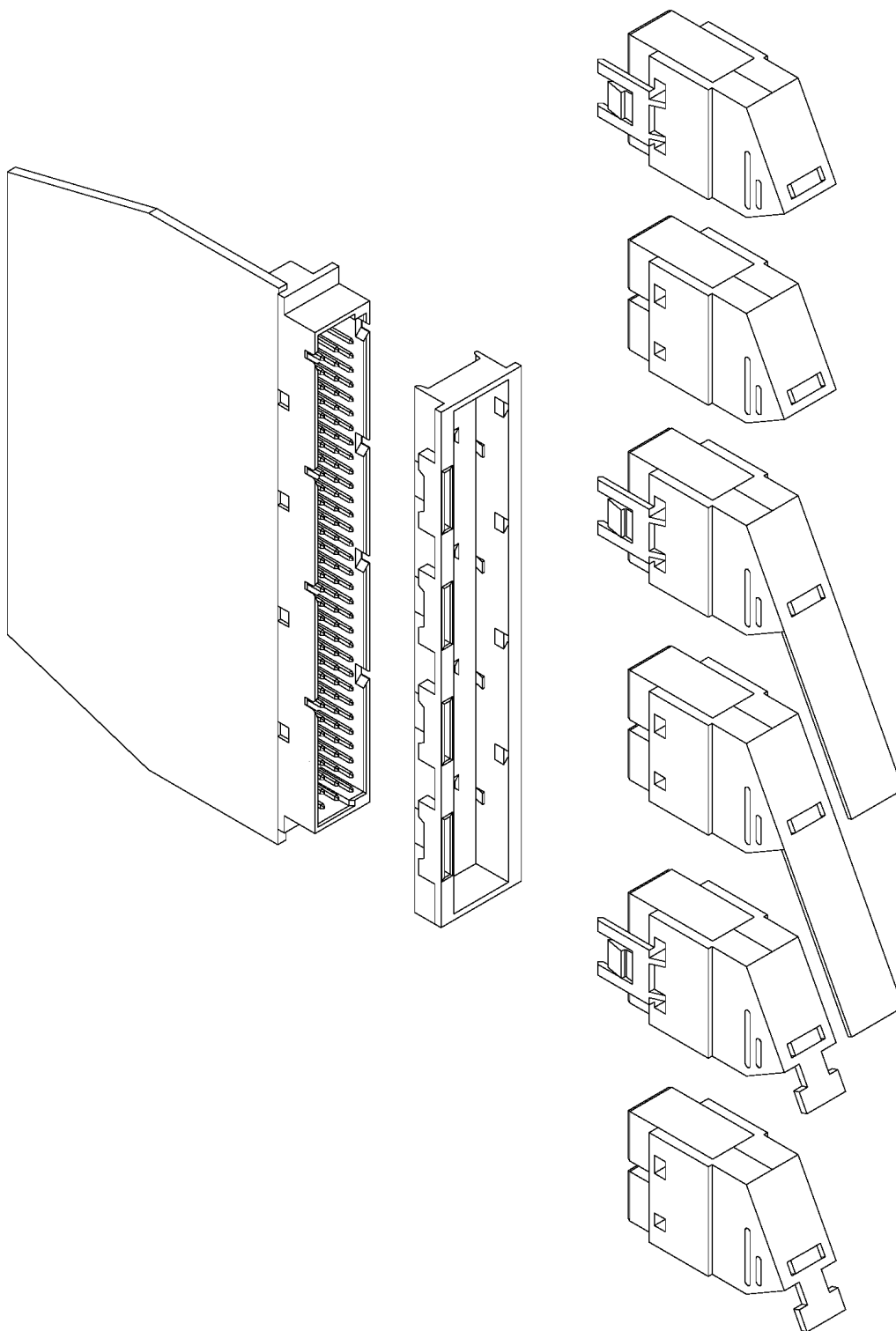
ONE MODULE HOUSING FOR C/4 AND C/8 FEMALE CONNECTORS



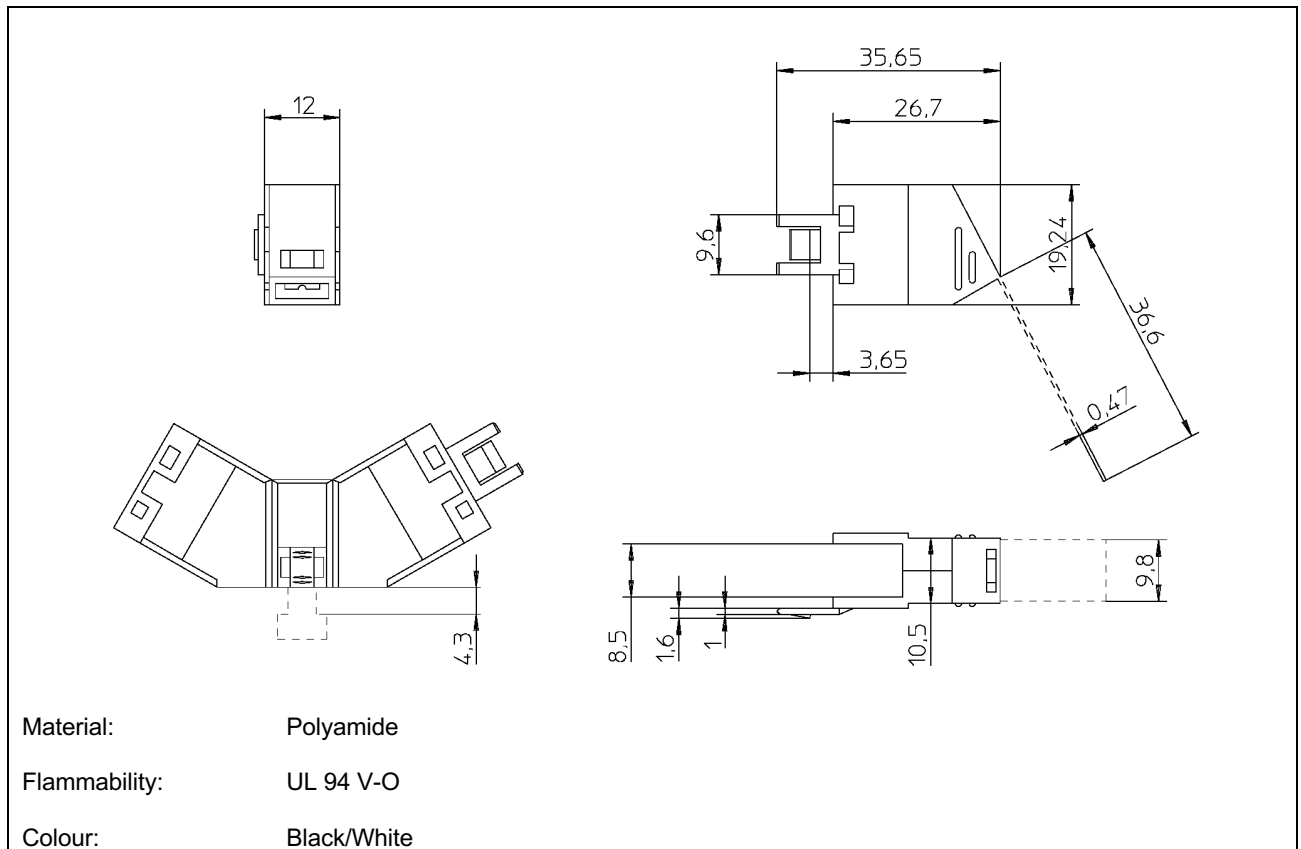
Ordering Code

Black/White	Black/White	
C/4H	C/4H*1	
C/4H-IK	C/4H-IK*1	
C/4H-ML	C/4H-ML*1	
C/4H-ML-IK	C/4H-ML-IK*1	

HOUSING FOR C/4 I.D.C CONNECTOR



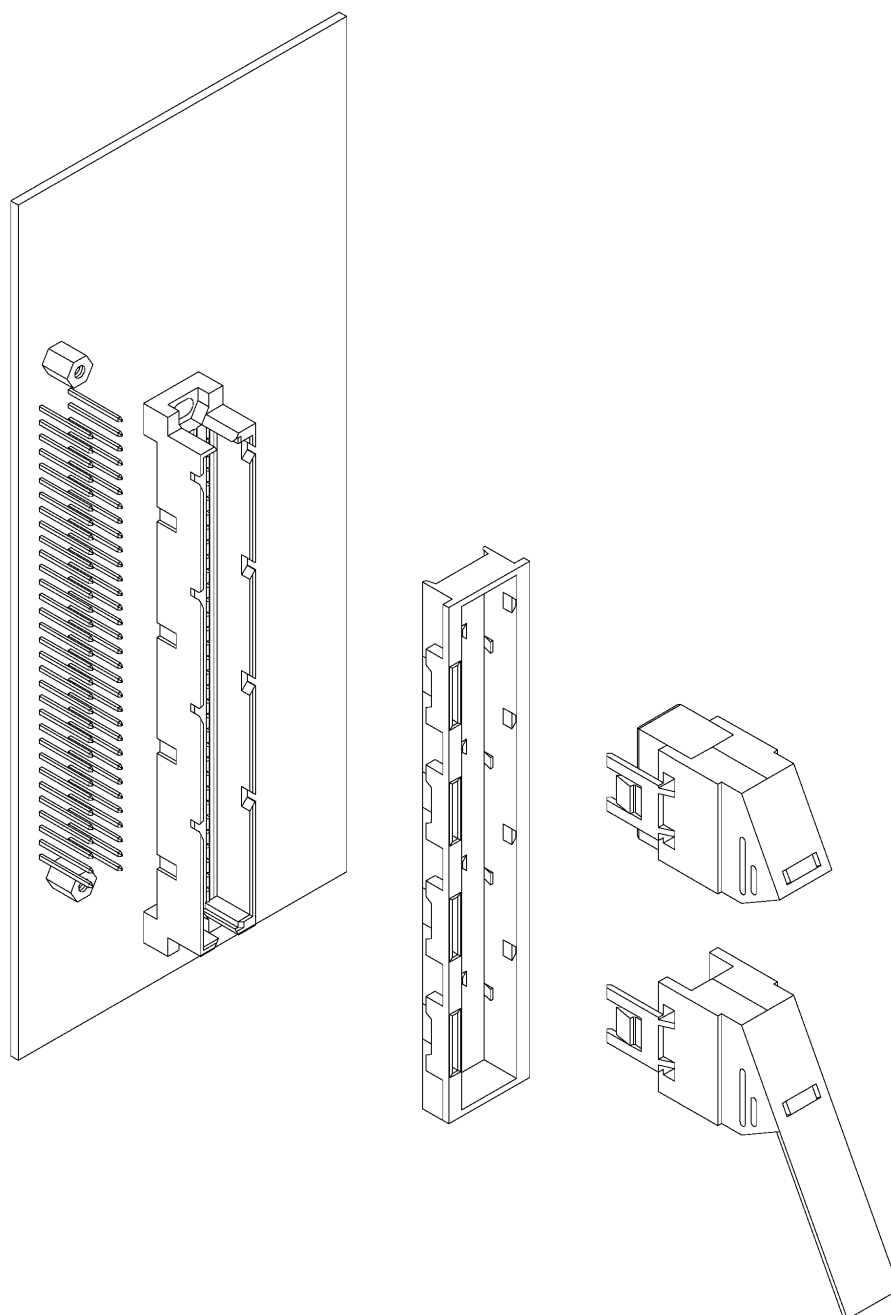
ONE MODULE HOUSING FOR C/4-FI I.D.C CABLE CONNECTORS



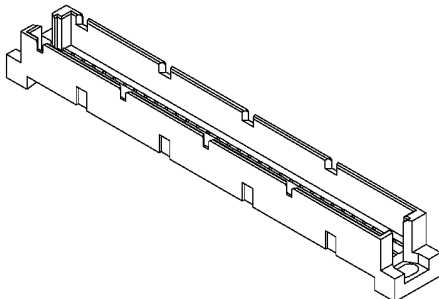
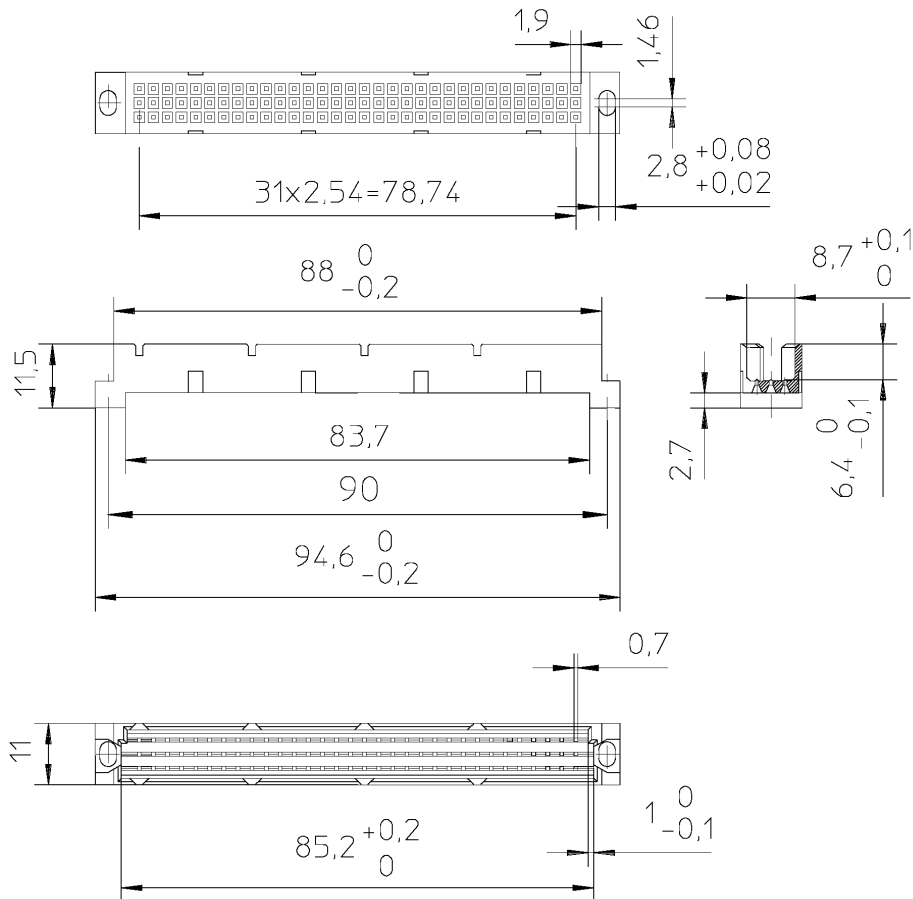
Ordering Code

C/4HI	
C/4HI-IK	
C/4HI-ML	
C/4HI-ML-IK	
C/4HI-LV	
C/4HI-LV-IK	

CONNECTOR HOUSING SYSTEM



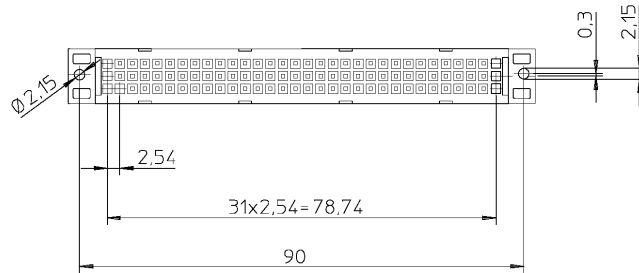
SHROUD



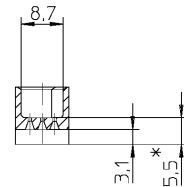
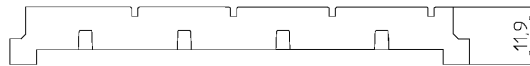
Ordering Code	PCS
Material	Glass fiber filled polyester
Flammability	UL 94 V-O
Colour	Grey

SHROUDS (PCS...)

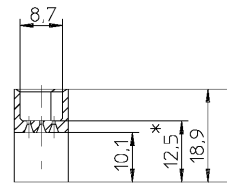
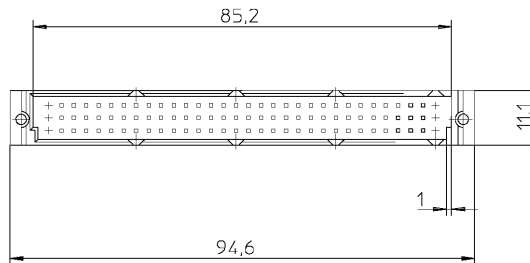
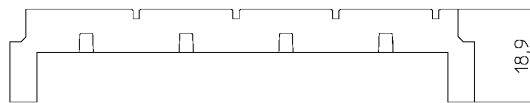
Ordering Code



PCS5,5



PCS12,5



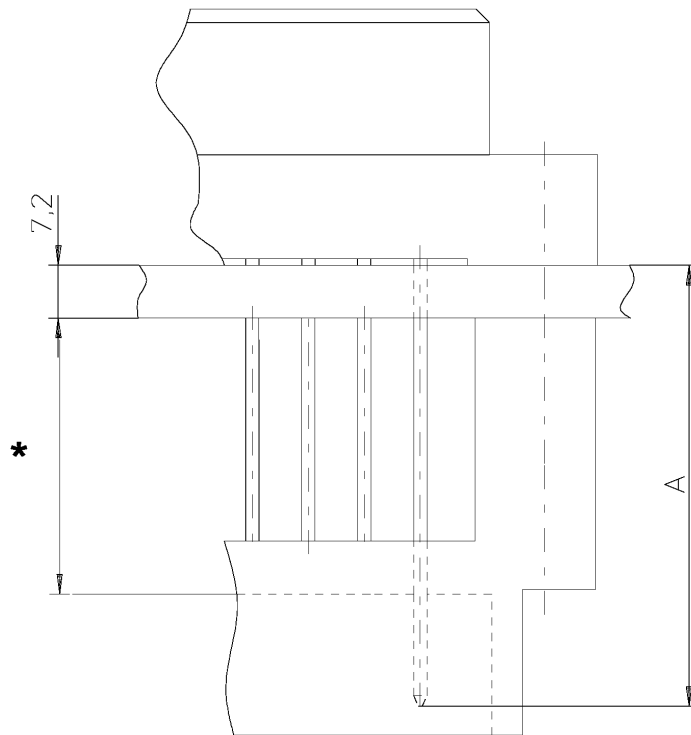
Material Glass fiber filled polyester

Flammability UL 94 V-O

Colour Grey

Fixing With M 2.5 plastite screws

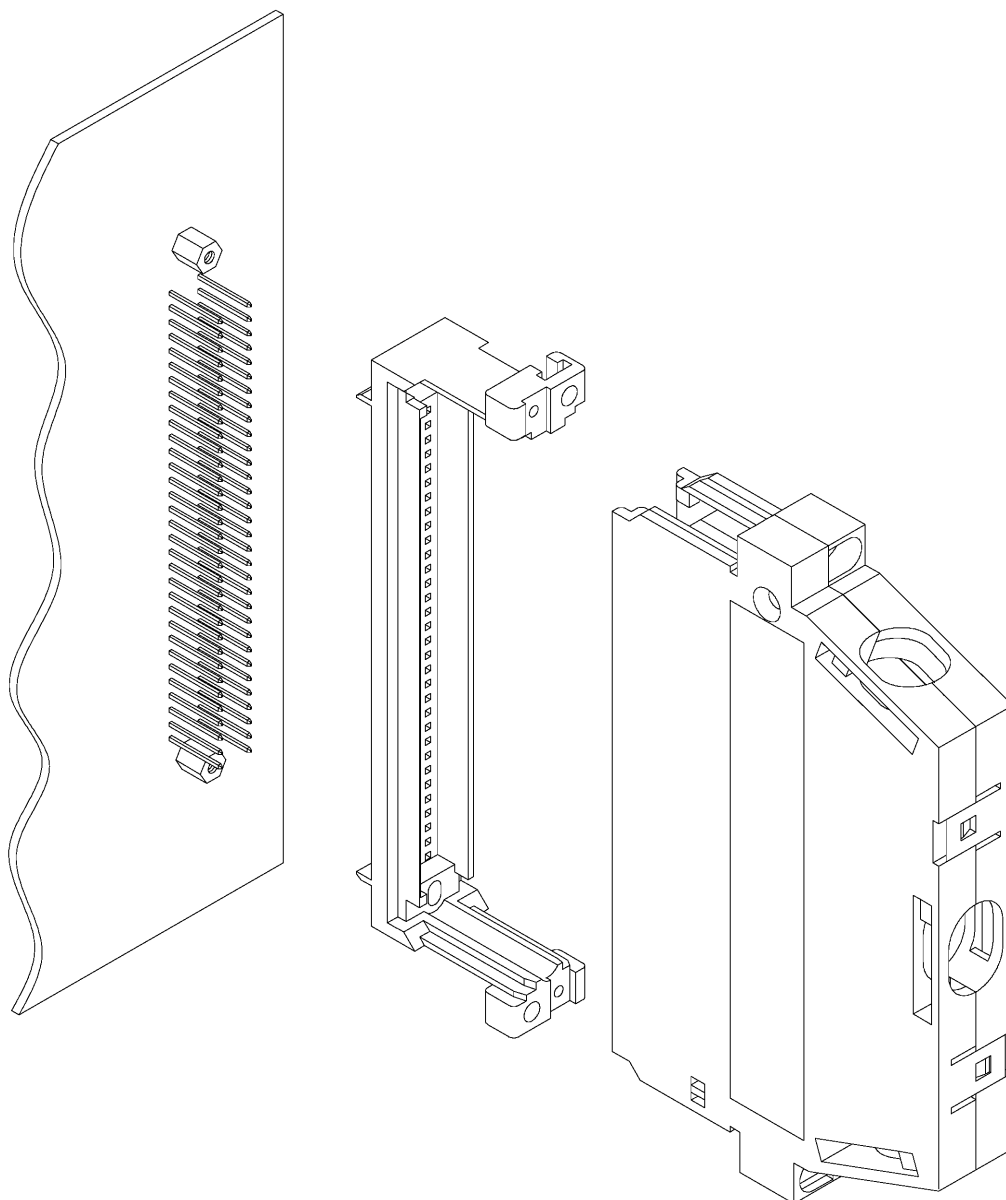
Locking frames, see PC/1L and C/1L.



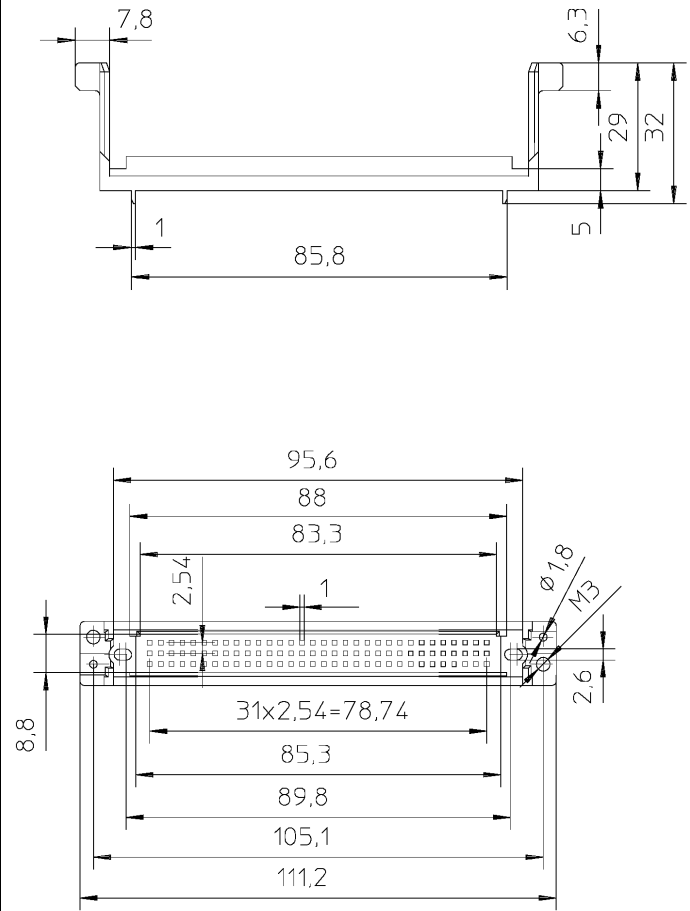
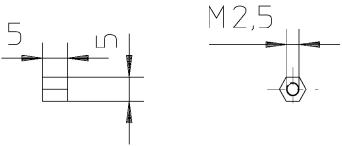
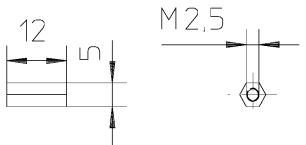
TYPE	* DIM	Suited for PCB thickness	Pin length A
PSC5,5	5.5	2.4	13
PCS12,5	12.5	2.4	20

Other standoffs on request.

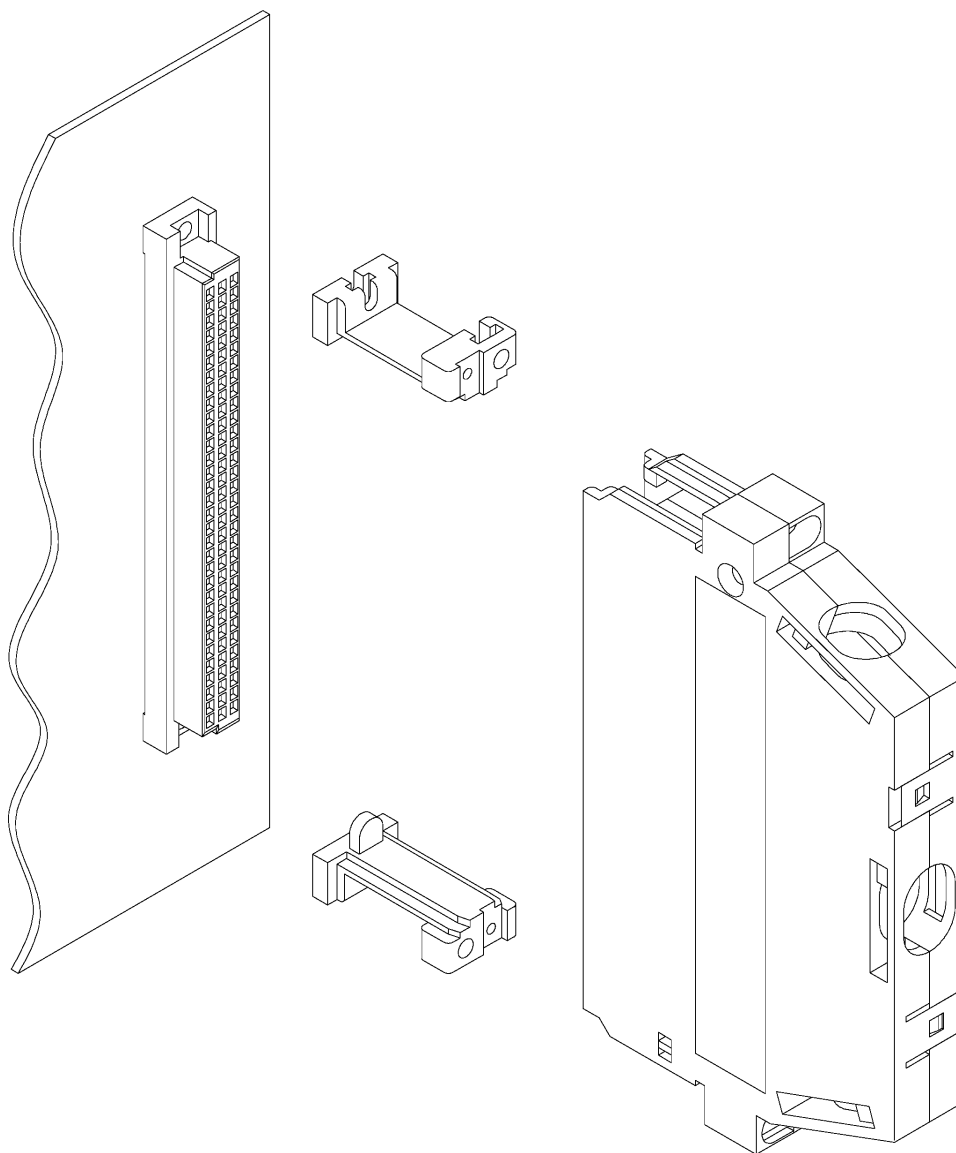
CONNECTOR HOUSING SYSTEM GUIDE FRAME FOR CABLE HOUSING PCH



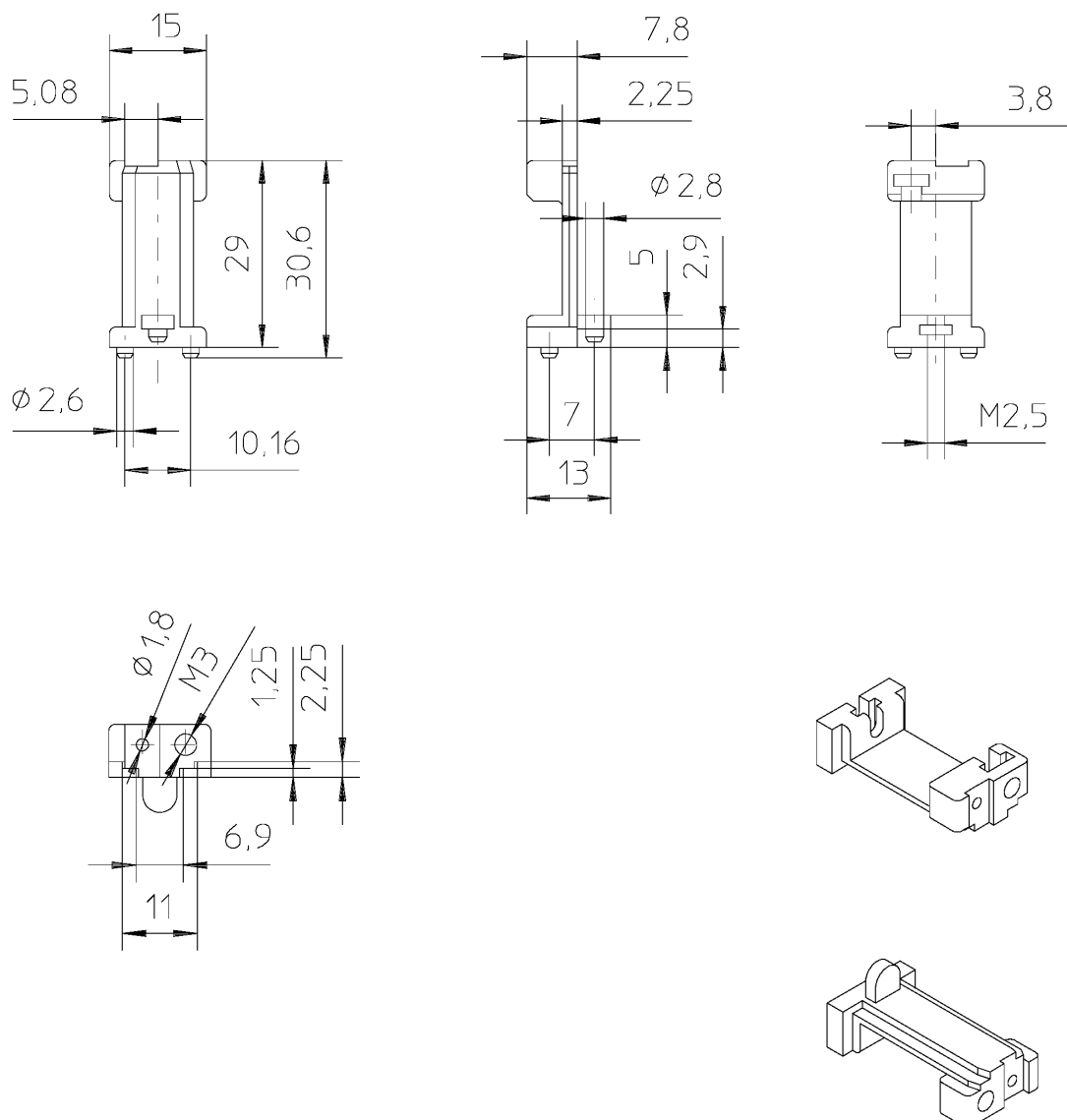
GUIDE FRAME FOR CABLE HOUSING PCH

	<table> <tr> <td>Ordering Code</td><td>PCKL</td></tr> <tr> <td>Material</td><td>Polycarbonate</td></tr> <tr> <td>Colour</td><td>Black</td></tr> </table>	Ordering Code	PCKL	Material	Polycarbonate	Colour	Black
Ordering Code	PCKL						
Material	Polycarbonate						
Colour	Black						
<p>SPACERS</p> 	<table> <tr> <td>Ordering Code</td><td>PCKM-5</td></tr> </table>	Ordering Code	PCKM-5				
Ordering Code	PCKM-5						
	<table> <tr> <td>Ordering Code</td><td>PCKM-12</td></tr> </table>	Ordering Code	PCKM-12				
Ordering Code	PCKM-12						

CONNECTOR HOUSING SYSTEM GUIDE PARTS FOR CABLE HOUSING PCH



GUIDE PARTS FOR CABLE HOUSING PCH

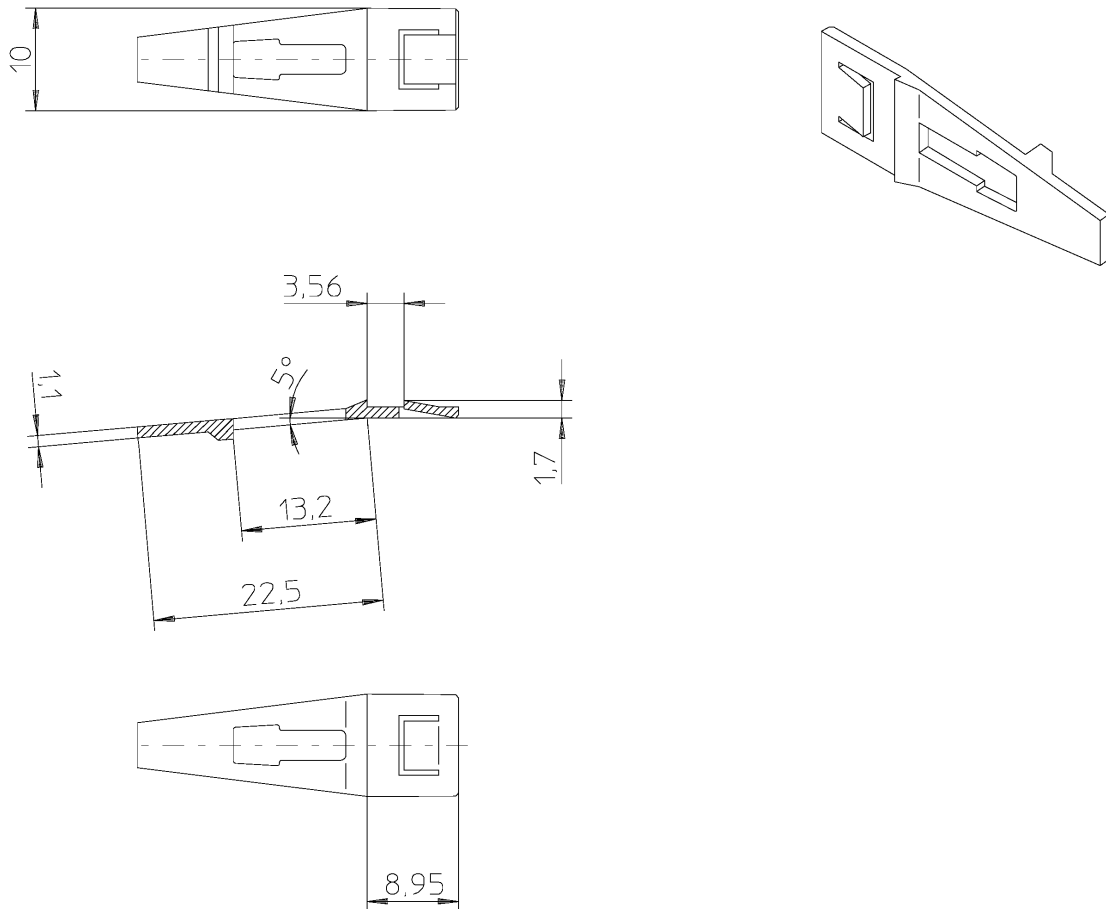


Ordering Code PCKT

Material Polycarbonate

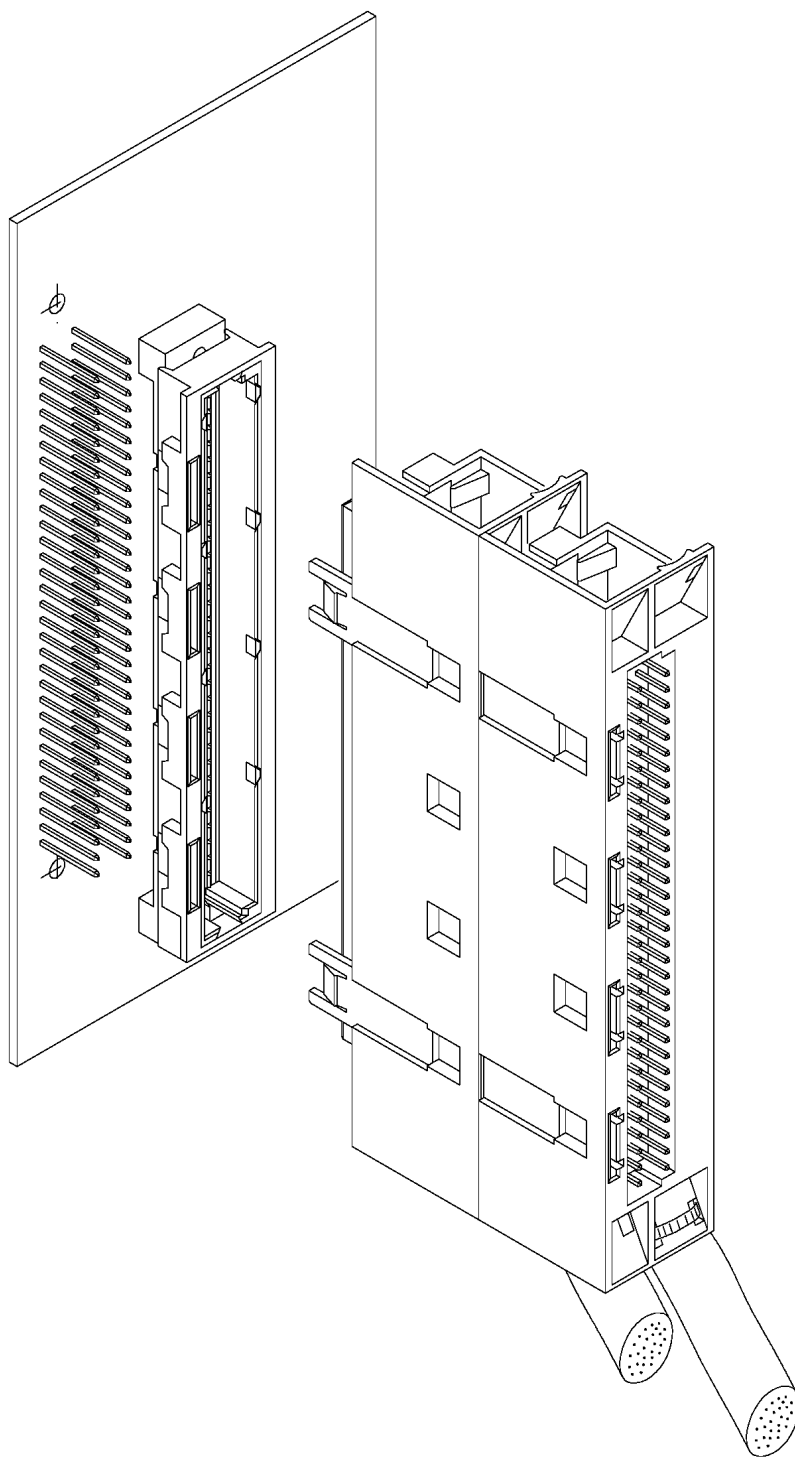
Colour Black

LATCH

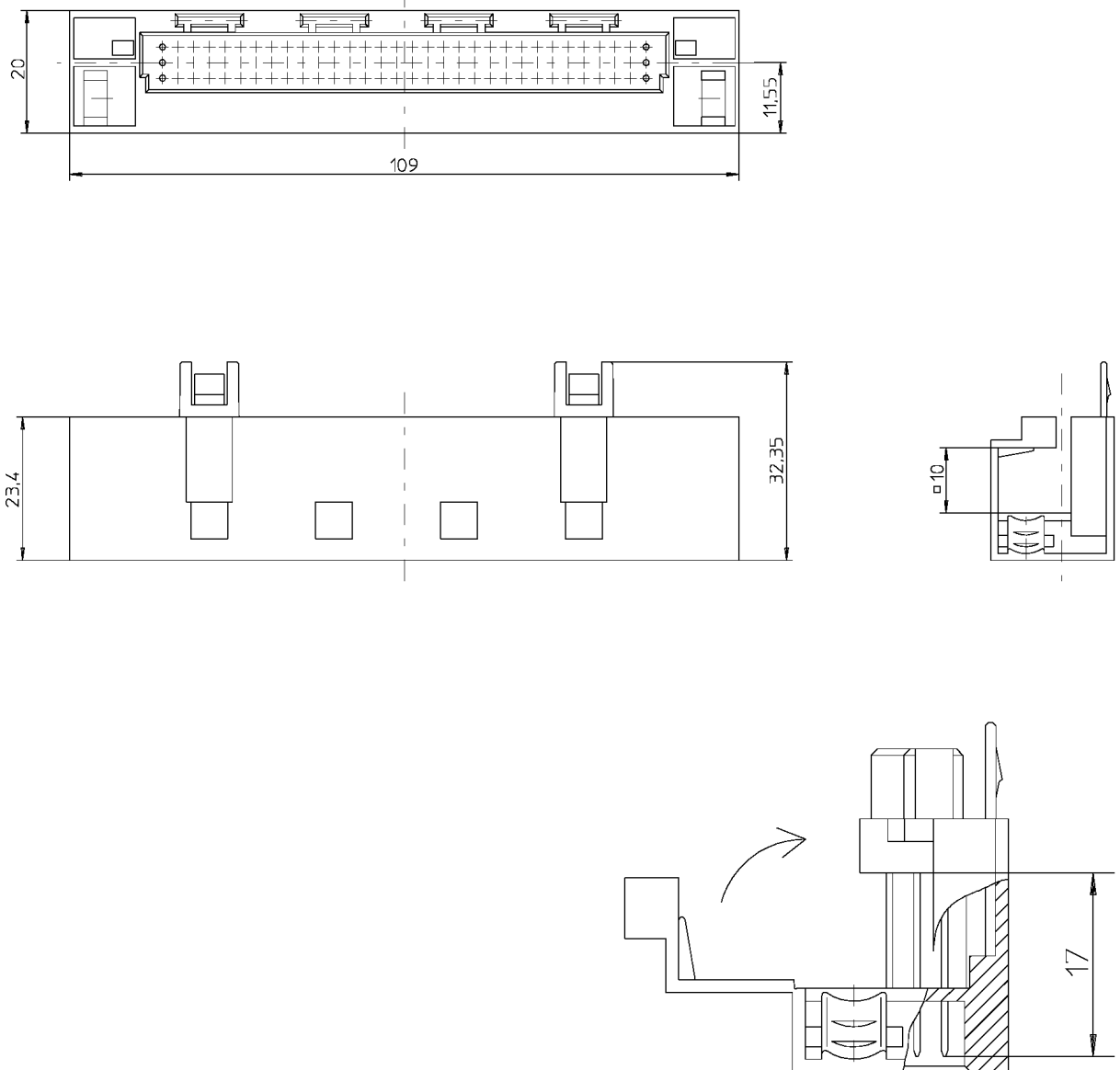


Ordering code	PCL
Material	Glass fiber filled polyester
Flammability	UL 94 V-O
Colour	Grey

STACKABLE HOUSING FOR C CONNECTOR



STACKABLE HOUSING FOR C FEMALE CONNECTOR



Ordering Code: KOTELO-1008

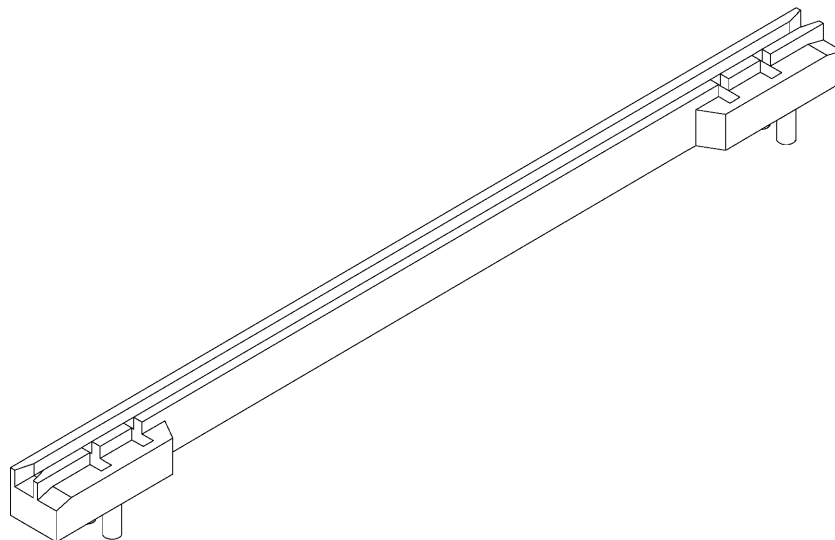
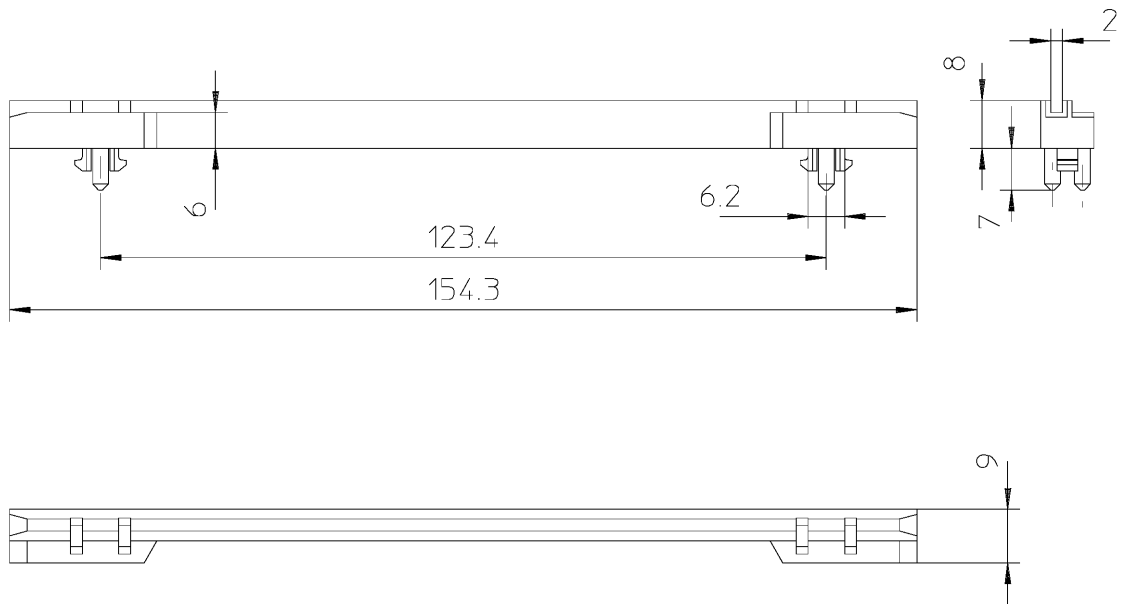
Material: PA

Flammability: UL 94 V-O

Colour: Black

SUPPLEMENTARY PRODUCTS

Guide Rail



GUIDE RAIL

Ordering code:

Material:

Colour:

Flammability rate (UL94)

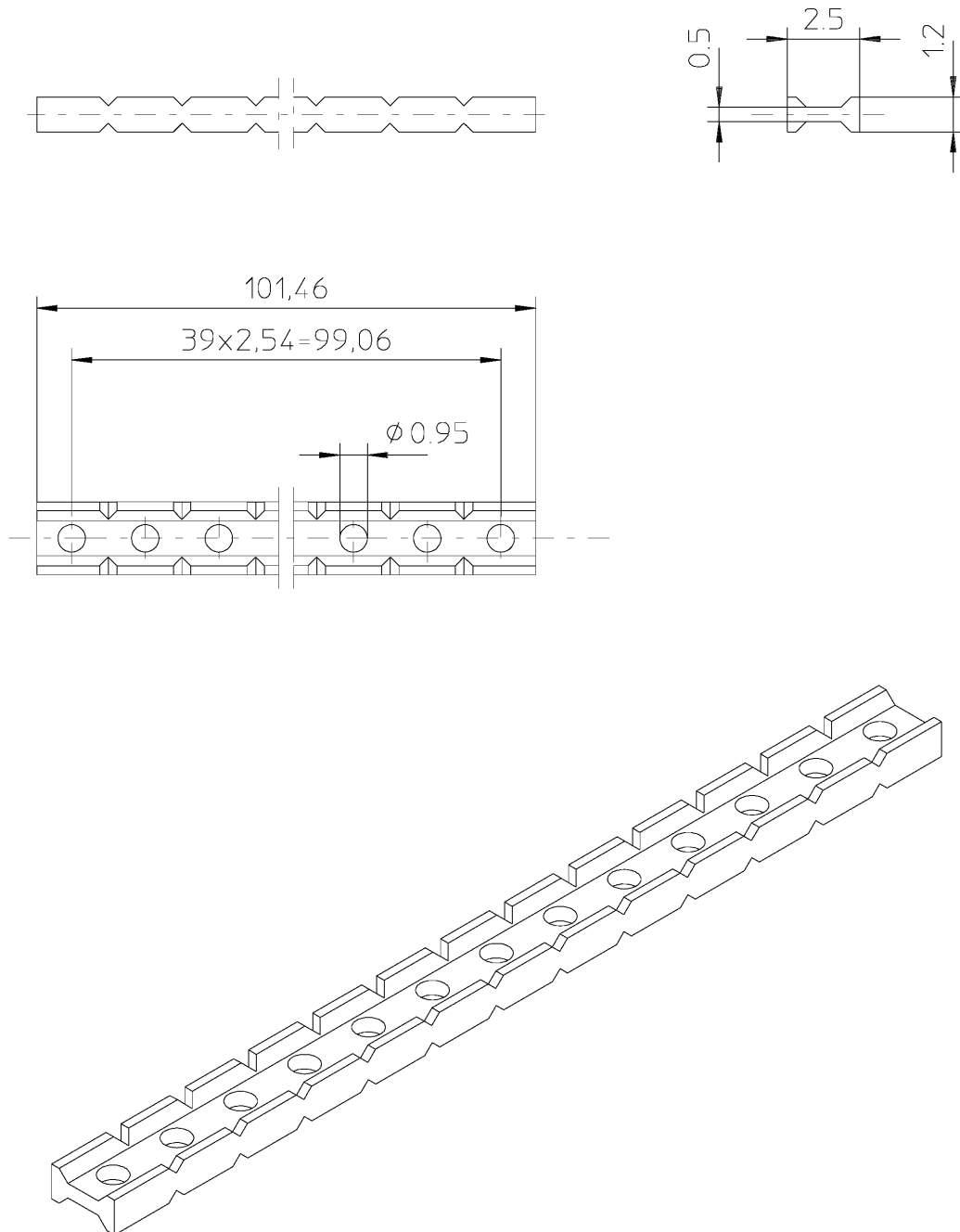
PKO

Glass fiber filled polyester

Grey

V-0

COMPONENT SUPPORT PKR40



Ordering code:
(with 0.7 mm holes)

Material:

Colour:

Flammability rate (UL94)

PKR 40

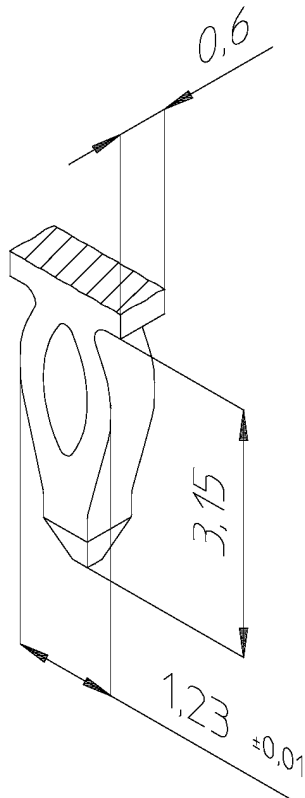
PKR 40-0,7

Glass fiber filled polyester

Grey

V-0

PRESS-FIT CONNECTIONS



IEC 352-5

Material

Phosphor bronze

Plating on press-in area

Gold plated version
Tinlead plated version

0.1 μm gold over 1-2 μm nickel
1-3 μm tinlead over 1-2 μm nickel

Press-in force

One pin

65-120 N
(hole diameter 0.94-1.09 mm)

64 pins

17 kN
(hole diameter 1.04 mm)

96 pins

20 kN
(hole diameter 1.04 mm)

Push-out force

One pin

30-60 N

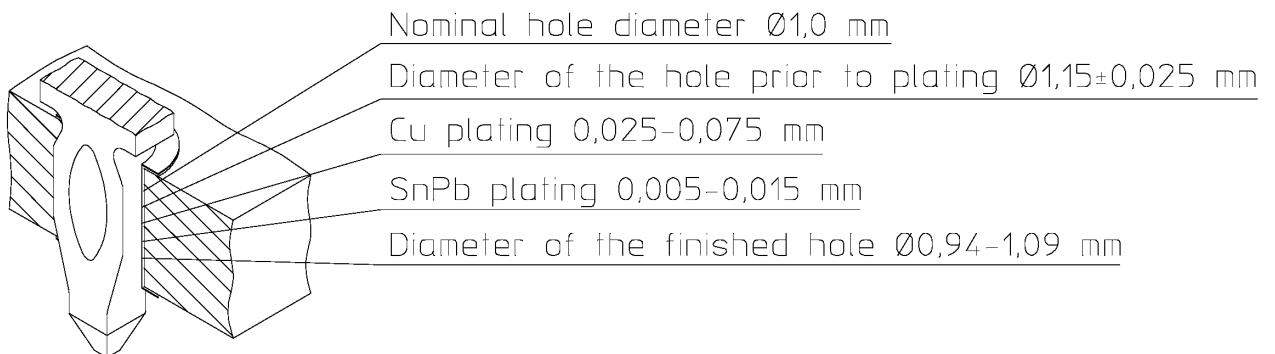
Press-fit version available in following types:

Male
(right angle tail)

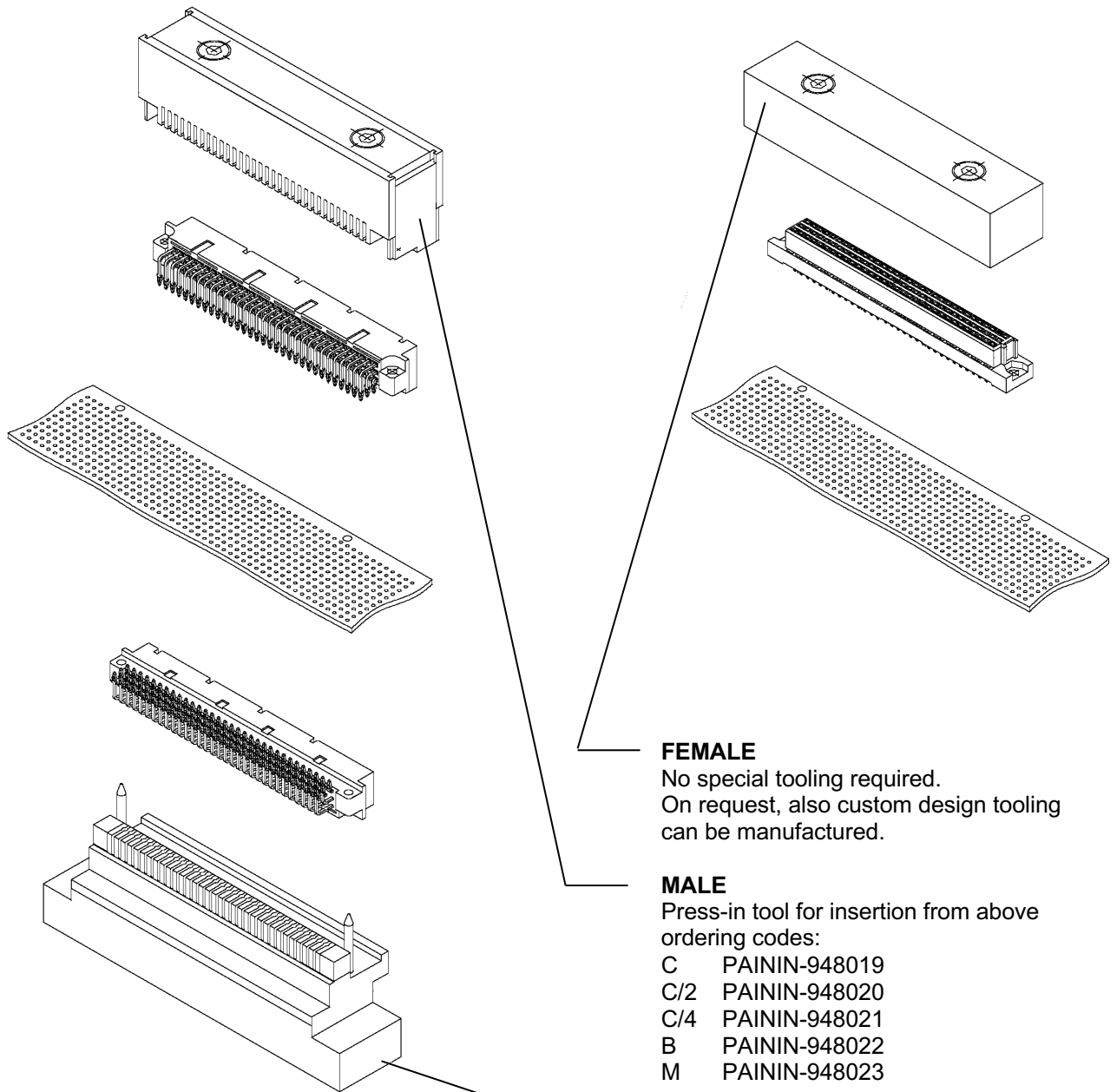
B, C, C/2, C/4, M

Female
(straight tail)

B, C, C/2, C/4, M



PRESS-FIT TECHNIQUES / PRESSING TOOLS



FEMALE

No special tooling required.
On request, also custom design tooling
can be manufactured.

MALE

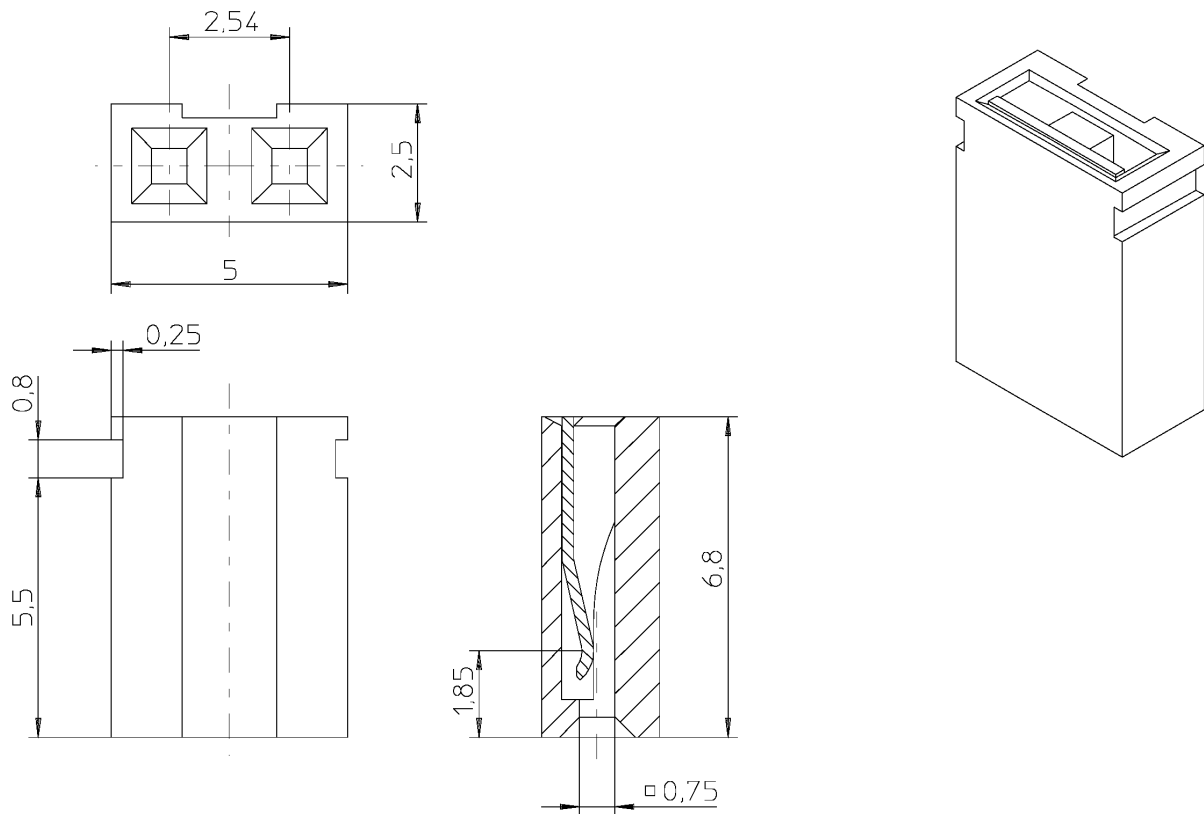
Press-in tool for insertion from above
ordering codes:

C	PAININ-948019
C/2	PAININ-948020
C/4	PAININ-948021
B	PAININ-948022
M	PAININ-948023

Press-in tool for insertion from below
ordering codes:

C	PAININ-948017
C/2	PAININ-948024
C/4	PAININ-948025
B	PAININ-948026
M	PAININ-948027

JUMPERS TYPE PL1U



- Female connector mating with 0.6 ± 0.04 mm, square or round pins
- Used in most male headers and connectors
- Open top enables stacking of two or more Jumpers on the same pin and allows inspection of contacts and testing with a probe
- Available in different colours

Applications

- Bridging during testing
- Programming or choosing alternative operating modes
- Identification coding of apparatus
- Can be used as switches instead of DIL switches

TECHNICAL SPECIFICATIONS

MATERIALS	Connector body	Glass fiber filled polyester
	Contact	Phosphor bronze
	Contact plating	Gold over nickel
ELECTRIC DATA	Current rating	2 A at 80 °C
	Proof voltage	750 V (rms) 50 Hz
	Insulation resistance	$\geq 10^6 \text{ M}\Omega$
	Contact resistance	$\leq 15 \text{ m}\Omega$
PHYSICAL DATA	Temperature range	-55 °C...+125 °C
	Insertion force	$\leq 4 \text{ N}$
	Withdrawal force	$\geq 1 \text{ N}$
	Mechanical endurance	200 insertions (min)
	Recommended mating pin	
	- size	$0.6 \pm 0.04 \text{ mm}$, square or round
	- length	6 mm
	Flammability	UL 94 V-O

ORDERING CODE

PL1U – **0,8** – **1**

PL1U	TYPE OF CONNECTOR	
	Two-part Jumper	PL1U

0,8	CONTACT FINISH	
	0.2 µm hard gold over 2 µm Ni	0,2
	0.4 µm hard gold over 2 µm Ni	0,4
	0.8 µm hard gold over 2 µm Ni	0,8
	Other platings on request	...

1	COLOUR CODE	
	Grey (standard)	1
	Green	2
	Red	5
	Black	7
	Other colours on request	...