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Features

- Available in different termination techniques
  - Han E® Crimp terminal
  - Han E® Screw terminal
  - Han® ES Cage-clamp terminal
  - Han® ESS Cage-clamp terminal
  - Han® EE Crimp terminal
  - Han® EEE Crimp terminal
- Han E® covers a wide range of cross core sections
- Wire protection for Han E® screw
- Suitable for hoods/housings of series Han® B, Han® M, Han® EMV, Han® HPR, Han® Easy Hood

Specifications	DIN EN 60 664-1 DIN EN 61 984
Approvals	, ,

Inserts

Number of contacts	6, 10, 16, 24, 32 (2x 16), 48 (2x 24) + PE
Electrical data acc. to EN 61 984	**16 A 500 V 6 kV 3**
Rated current	16 A
Rated voltage	500 V
Rated impulse voltage	6 kV
Pollution degree	3
Pollution degree 2 also	16 A 400/690 V 6 kV 2
Rated voltage acc. to UL/CSA	600 V
Insulation resistance	≥ 10^{10} Ω
Material	polycarbonate
Limiting temperatures	-40 °C ... +125 °C
Flammability acc. to UL 94	V 0
Mechanical working life - mating cycles	≥ 500

Contacts

Material	copper alloy
Surface - hard-gold plated	2 µm Au over 3 µm Ni
Surface - hard-silver plated	3 µm Ag
Contact resistance	≤ 1 mΩ
Crimp terminal - min	0.14 mm² / AWG 26
Crimp terminal - max	4 mm² / AWG 12
Screw terminal - min	0.75 mm² / AWG 18
Screw terminal - max	2.5 mm² / AWG 14
Tightening/test torque	0.5 Nm
Stripping length	7.5 mm

Hoods/Housings

Material	aluminium die-cast
Surface	powder-coated
Locking element	Han-Easy Lock®
Flammability acc. to UL 94	V 0
Hoods/Housings seal	NBR
Limiting temperatures	-40 °C ... +125 °C
Degree of protection acc. to DIN EN 60 529 for coupled connector	IP 65

Further selection of hoods/housings see chapter 31

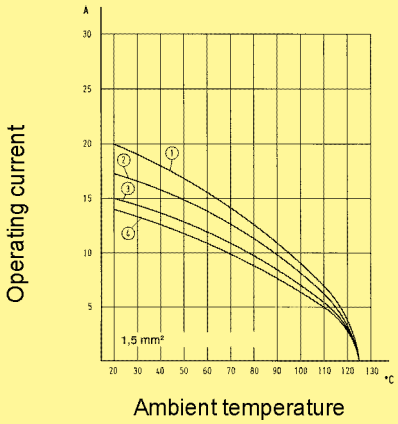
Accessories

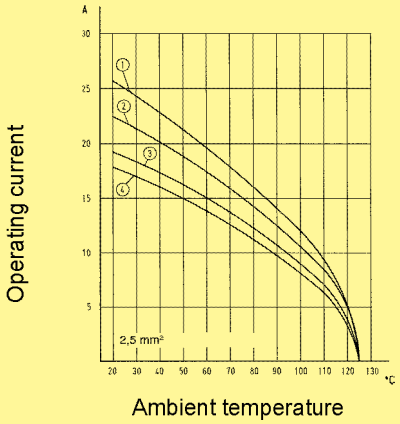
Crimping tools	chapter 99
Cable clamps	chapter 95
Coding of hoods/housings	chapter 95
Label acc. to CSA-approval	chapter 95
Han-Snap®	chapter 11
Assembly plates for test connector	chapter 95
Special insert fixing screws	chapter 95

Current carrying capacity

The current carrying capacity of the connectors is limited by the thermal load capability of the contact element material including the connections and the insulating parts. The derating curve is therefore valid for currents which flow constantly (non-intermittent) through each contact element of the connector evenly, without exceeding the allowed maximum temperature.

Measuring and testing techniques according to DIN EN 60 512-5-2

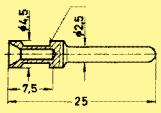


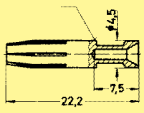


① Han® 6 E
② Han® 10 E
③ Han® 16 E
④ Han® 24 E

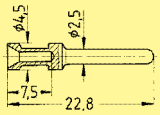
Identification	Wire gauge (mm²)	Part number Male contact	Part number Female contact
Crimp contacts			
Power contacts			
silver plated	0.14-0.37	09 33 000 6127	09 33 000 6227
	0.5	**09 33 000 6121**	**09 33 000 6220**
	0.75	**09 33 000 6114**	**09 33 000 6214**
	1	**09 33 000 6105**	**09 33 000 6205**
	1.5	**09 33 000 6104**	**09 33 000 6204**
	2.5	**09 33 000 6102**	**09 33 000 6202**
	3	09 33 000 6106	09 33 000 6206
	4	**09 33 000 6107**	**09 33 000 6207**
gold plated	0.14-0.37	**09 33 000 6117**	**09 33 000 6217**
	0.5	**09 33 000 6122**	**09 33 000 6222**
	0.75	**09 33 000 6115**	**09 33 000 6215**
	1	**09 33 000 6118**	**09 33 000 6218**
	1.5	**09 33 000 6116**	**09 33 000 6216**
	2.5	**09 33 000 6123**	**09 33 000 6223**
	4	09 33 000 6119	**09 33 000 6221**
Relay contact silver plated	0.75-1	09 33 000 6109	
	1.5	09 33 000 6110	
	2.5	09 33 000 6111	
F.O. contacts			
for 1 mm plastic fibre		20 10 001 3311	20 10 001 3321
Coding pin			
for crimp inserts only			09 33 000 9954

Operating contact Identification



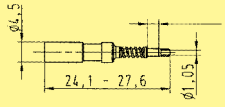


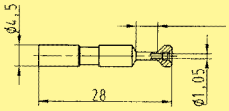
Relay contact

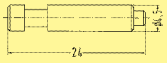


Identification	Wire gauge		Stripping length
no groove	0.14-0.37 mm²	AWG 26-22	7.5 mm
no groove	0.5 mm²	AWG 20	7.5 mm
1 groove*	0.75 mm²	AWG 18	7.5 mm
1 groove	1 mm²	AWG 18	7.5 mm
2 grooves	1.5 mm²	AWG 16	7.5 mm
3 grooves	2.5 mm²	AWG 14	7.5 mm
wide groove	3 mm²	AWG 12	7.5 mm
no groove	4 mm²	AWG 12	7.5 mm

* on the back crimp collar







Use of the coding pin prevents incorrect mating to other connectors of the same type. The male pin should be omitted from the opposing cavity in the male insert.

Crimp contacts 0.14 ... 0.37 mm² only used with BUCHANAN crimping tool
09 99 000 0001

Stock items in bold type

Features

- Han E® contacts with crimp termination
- High density of crimping contacts
- Coded insert
- Contacts available with either hard silver plated or hard gold plated surface
- Suitable for hoods/housings of series Han® B, Han® M, Han® EMV, Han® HPR, Han® Easy Hood

Specifications

DIN EN 60 664-1
DIN EN 61 984

Approvals

Inserts

Number of contacts	10, 18, 32, 46, 64 (2x 32), 92 (2x 46) + PE
Electrical data acc. to EN 61 984	**16 A 500 V 6 kV 3**
Rated current	16 A
Rated voltage	500 V
Rated impulse voltage	6 kV
Pollution degree	3
Pollution degree 2 also	16 A 830 V 8 kV 2
Rated voltage acc. to UL/CSA	600 V
Insulation resistance	≥ 10^{10} Ω
Material	polycarbonate
Limiting temperatures	-40 °C ... +125 °C
Flammability acc. to UL 94	V 0
Mechanical working life - mating cycles	≥ 500

Contacts

Material	copper alloy
Surface - hard-gold plated	2 µm Au over 3 µm Ni
Surface - hard-silver plated	3 µm Ag
Contact resistance	≤ 1 mΩ
Crimp terminal - min	0.14 mm² / AWG 26
Crimp terminal - max	4 mm² / AWG 12

Hoods/Housings

Material	aluminium die-cast
Surface	powder-coated
Locking element	Han-Easy Lock®
Flammability acc. to UL 94	V 0
Hoods/Housings seal	NBR
Limiting temperatures	-40 °C ... +125 °C
Degree of protection acc. to DIN EN 60 529 for coupled connector	IP 65

Further selection of hoods/housings see chapter 31

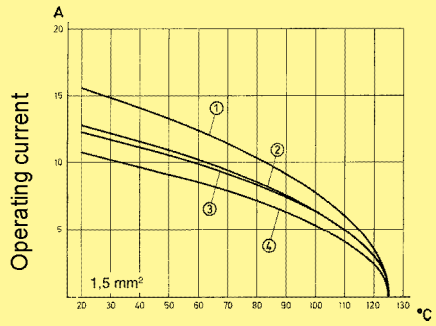
Accessories

Crimping tools	chapter 99
Cable clamps	chapter 95
Coding of hoods/housings	chapter 95
Label acc. to CSA-approval	chapter 95
Han-Snap®	chapter 11
Assembly plates for test connector	chapter 95
Special insert fixing screws	chapter 95

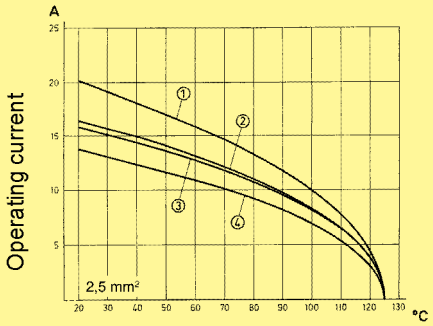
Current carrying capacity

The current carrying capacity of the connectors is limited by the thermal load capability of the contact element material including the connections and the insulating parts. The derating curve is therefore valid for currents which flow constantly (non-intermittent) through each contact element of the connector evenly, without exceeding the allowed maximum temperature.

Measuring and testing techniques according to DIN EN 60 512-5-2



Ambient temperature



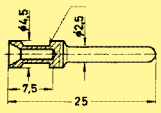
Ambient temperature

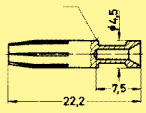
① Han® 10 EE
② Han® 18 EE
③ Han® 32 EE
④ Han® 46 EE

Identification	Wire gauge (mm²)	Part number Male contact	Part number Female contact
Crimp contacts			
Power contacts			
silver plated	0.14-0.37	09 33 000 6127	09 33 000 6227
	0.5	**09 33 000 6121**	**09 33 000 6220**
	0.75	**09 33 000 6114**	**09 33 000 6214**
	1	**09 33 000 6105**	**09 33 000 6205**
	1.5	**09 33 000 6104**	**09 33 000 6204**
	2.5	**09 33 000 6102**	**09 33 000 6202**
	3	09 33 000 6106	09 33 000 6206
	4	**09 33 000 6107**	**09 33 000 6207**
gold plated	0.14-0.37	**09 33 000 6117**	**09 33 000 6217**
	0.5	**09 33 000 6122**	**09 33 000 6222**
	0.75	**09 33 000 6115**	**09 33 000 6215**
	1	**09 33 000 6118**	**09 33 000 6218**
	1.5	**09 33 000 6116**	**09 33 000 6216**
	2.5	**09 33 000 6123**	**09 33 000 6223**
	4	09 33 000 6119	**09 33 000 6221**
Relay contact silver plated	0.75-1	09 33 000 6109	
	1.5	09 33 000 6110	
	2.5	09 33 000 6111	
F.O. contacts			
for 1 mm plastic fibre		20 10 001 3311	20 10 001 3321
Coding pin			
for crimp inserts only			09 33 000 9954

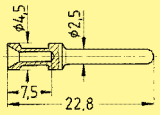
Drawing — Dimensions in mm

Operating contact Identification



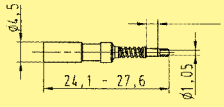


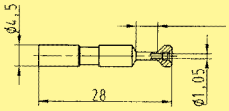
Relay contact

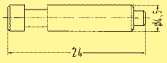


Identification	Wire gauge		Stripping length
no groove	0.14-0.37 mm²	AWG 26-22	7.5 mm
no groove	0.5 mm²	AWG 20	7.5 mm
1 groove*	0.75 mm²	AWG 18	7.5 mm
1 groove	1 mm²	AWG 18	7.5 mm
2 grooves	1.5 mm²	AWG 16	7.5 mm
3 grooves	2.5 mm²	AWG 14	7.5 mm
wide groove	3 mm²	AWG 12	7.5 mm
no groove	4 mm²	AWG 12	7.5 mm

* on the back crimp collar







Use of the coding pin prevents incorrect mating to other connectors of the same type. The male pin should be omitted from the opposing cavity in the male insert.

Crimp contacts 0.14 ... 0.37 mm² only used with BUCHANAN crimping tool
09 99 000 0001

Stock items in bold type

Features

- Han E® contacts with crimp termination
- Coded insert
- Contacts available with either hard silver plated or hard gold plated surface
- Suitable for hoods/housings of series Han® B, Han® M, Han® EMV, Han® HPR, Han® Easy Hood

Specifications

DIN EN 60 664-1
DIN EN 61 984

Approvals

Inserts

Number of contacts	40, 64 + PE
Electrical data acc. to EN 61 984	**16 A 500 V 6 kV 3**
Rated current	16 A
Rated voltage	500 V
Rated impulse voltage	6 kV
Pollution degree	3
Insulation resistance	≥ 10^{10} Ω
Material	polycarbonate
Limiting temperatures	-40 °C ... +125 °C
Flammability acc. to UL 94	V 0
Mechanical working life - mating cycles	≥ 500

Contacts

Material	copper alloy
Surface - hard-gold plated	2 µm Au over 3 µm Ni
Surface - hard-silver plated	3 µm Ag
Contact resistance	≤ 1 mΩ
Crimp terminal - min	0.14 mm² / AWG 26
Crimp terminal - max	4 mm² / AWG 12

Hoods/Housings

Material	aluminium die-cast
Surface	powder-coated
Locking element	Han-Easy Lock®
Flammability acc. to UL 94	V 0
Hoods/Housings seal	NBR
Limiting temperatures	-40 °C ... +125 °C
Degree of protection acc. to DIN EN 60 529 for coupled connector	IP 65

Further selection of hoods/housings see chapter 31

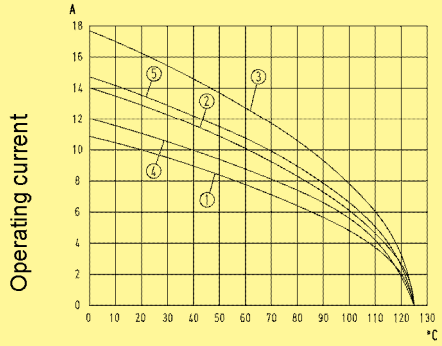
Accessories

Crimping tools	chapter 99
Cable clamps	chapter 95
Coding of hoods/housings	chapter 95
Label acc. to CSA-approval	chapter 95
Han-Snap®	chapter 11
Assembly plates for test connector	chapter 95
Special insert fixing screws	chapter 95

Current carrying capacity

The current carrying capacity of the connectors is limited by the thermal load capability of the contact element material including the connections and the insulating parts. The derating curve is therefore valid for currents which flow constantly (non-intermittent) through each contact element of the connector evenly, without exceeding the allowed maximum temperature.

Measuring and testing techniques according to DIN EN 60 512-5-2

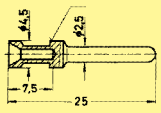


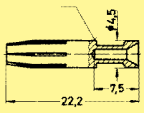
① Han® 64 EEE / 1.5 mm²
② Han® 64 EEE / 2.5 mm²
③ Han® 64 EEE / 4.0 mm²
④ Han® 40 EEE / 1.5 mm²
⑤ Han® 40 EEE / 2.5 mm²

Identification	Wire gauge (mm²)	Part number Male contact	Part number Female contact
Crimp contacts			
Power contacts			
silver plated	0.14-0.37	09 33 000 6127	09 33 000 6227
	0.5	**09 33 000 6121**	**09 33 000 6220**
	0.75	**09 33 000 6114**	**09 33 000 6214**
	1	**09 33 000 6105**	**09 33 000 6205**
	1.5	**09 33 000 6104**	**09 33 000 6204**
	2.5	**09 33 000 6102**	**09 33 000 6202**
	3	09 33 000 6106	09 33 000 6206
	4	**09 33 000 6107**	**09 33 000 6207**
gold plated	0.14-0.37	**09 33 000 6117**	**09 33 000 6217**
	0.5	**09 33 000 6122**	**09 33 000 6222**
	0.75	**09 33 000 6115**	**09 33 000 6215**
	1	**09 33 000 6118**	**09 33 000 6218**
	1.5	**09 33 000 6116**	**09 33 000 6216**
	2.5	**09 33 000 6123**	**09 33 000 6223**
	4	09 33 000 6119	**09 33 000 6221**
Relay contact silver plated	0.75-1	09 33 000 6109	
	1.5	09 33 000 6110	
	2.5	09 33 000 6111	
F.O. contacts			
for 1 mm plastic fibre		20 10 001 3311	20 10 001 3321
Coding pin			
for crimp inserts only			09 33 000 9954

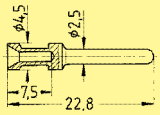
Drawing — Dimensions in mm

Operating contact Identification



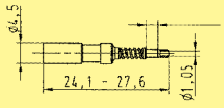


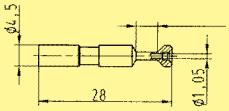
Relay contact

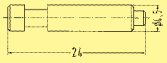


Identification	Wire gauge		Stripping length
no groove	0.14-0.37 mm²	AWG 26-22	7.5 mm
no groove	0.5 mm²	AWG 20	7.5 mm
1 groove*	0.75 mm²	AWG 18	7.5 mm
1 groove	1 mm²	AWG 18	7.5 mm
2 grooves	1.5 mm²	AWG 16	7.5 mm
3 grooves	2.5 mm²	AWG 14	7.5 mm
wide groove	3 mm²	AWG 12	7.5 mm
no groove	4 mm²	AWG 12	7.5 mm

* on the back crimp collar







Use of the coding pin prevents incorrect mating to other connectors of the same type. The male pin should be omitted from the opposing cavity in the male insert.

Crimp contacts 0.14 ... 0.37 mm² only used with BUCHANAN crimping tool
09 99 000 0001

Stock items in bold type

Features

- Reliable cage clamp termination
- No special tools required
- Vibration prooved

Specifications

DIN EN 60 664-1
DIN EN 61 984

Approvals

Inserts

Number of contacts	6, 10, 16, 24, 32 (2x 16), 48 (2x 24) + PE
Electrical data acc. to EN 61 984	**16 A 500 V 6 kV 3**
Rated current	16 A
Rated voltage	500 V
Rated impulse voltage	6 kV
Pollution degree	3
Pollution degree 2 also	16 A 400/690 V 6 kV 2
Rated voltage acc. to UL/CSA	600 V
Insulation resistance	≥ 10^{10} Ω
Material	polycarbonate
Limiting temperatures	-40 °C ... +125 °C
Flammability acc. to UL 94	V 0
Mechanical working life - mating cycles	≥ 500

Contacts

Material	copper alloy
Surface - hard-silver plated	3 µm Ag
Contact resistance	≤ 3 mΩ
Cage clamp terminal - min	0.14 mm² / AWG 26
Cage clamp terminal - max	2.5 mm² / AWG 14

Hoods/Housings

Material	aluminium die-cast
Surface	powder-coated
Locking element	Han-Easy Lock®
Flammability acc. to UL 94	V 0
Hoods/Housings seal	NBR
Limiting temperatures	-40 °C ... +125 °C
Degree of protection acc. to DIN EN 60 529 for coupled connector	IP 65

Further selection of hoods/housings see chapter 31

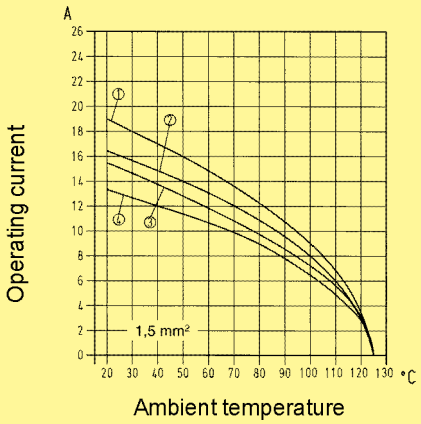
Accessories

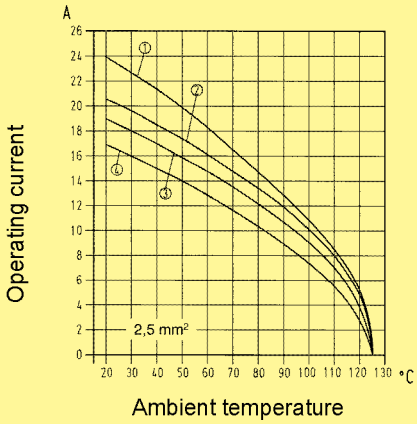
Cable clamps	chapter 95
Coding of hoods/housings	chapter 95
Label acc. to CSA-approval	chapter 95
Han-Snap®	chapter 11
Assembly plates for test connector	chapter 95
Special insert fixing screws	chapter 95

Current carrying capacity

The current carrying capacity of the connectors is limited by the thermal load capability of the contact element material including the connections and the insulating parts. The derating curve is therefore valid for currents which flow constantly (non-intermittent) through each contact element of the connector evenly, without exceeding the allowed maximum temperature.

Measuring and testing techniques according to DIN EN 60 512-5-2





① Han® 6 ES
② Han® 10 ES
③ Han® 16 ES
④ Han® 24 ES

Features

- Reliable cage clamp termination
- No special tools required
- Vibration prooved
- 2 termination points per contact
- Suitable for star delta bridge

Specifications

DIN EN 60 664-1
DIN EN 61 984

Approvals

Inserts

Number of contacts	6, 10, 16, 24, 32 (2x 16), 48 (2x 24) + PE
Electrical data acc. to EN 61 984	**16 A 500 V 6 kV 3**
Rated current	16 A
Rated voltage	500 V
Rated impulse voltage	6 kV
Pollution degree	3
Pollution degree 2 also	16 A 400/690 V 6 kV 2
Rated voltage acc. to UL/CSA	600 V
Insulation resistance	≥ 10^{10} Ω
Material	polycarbonate
Limiting temperatures	-40 °C ... +125 °C
Flammability acc. to UL 94	V 0
Mechanical working life - mating cycles	≥ 500

Contacts

Material	copper alloy
Surface - hard-silver plated	3 µm Ag
Contact resistance	≤ 3 mΩ
Cage clamp terminal - min	0.14 mm² / AWG 26
Cage clamp terminal - max	2.5 mm² / AWG 14

Hoods/Housings

Material	aluminium die-cast
Surface	powder-coated
Locking element	Han-Easy Lock®
Flammability acc. to UL 94	V 0
Hoods/Housings seal	NBR
Limiting temperatures	-40 °C ... +125 °C
Degree of protection acc. to DIN EN 60 529 for coupled connector	IP 65

Further selection of hoods/housings see chapter 31

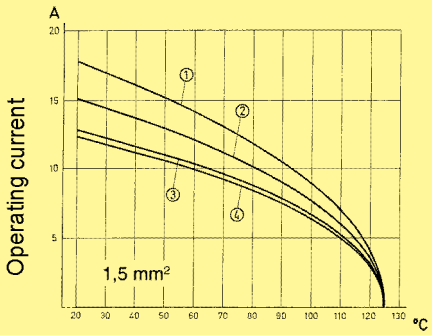
Accessories

Cable clamps	chapter 95
Coding of hoods/housings	chapter 95
Label acc. to CSA-approval	chapter 95
Han-Snap®	chapter 11
Assembly plates for test connector	chapter 95
Special insert fixing screws	chapter 95

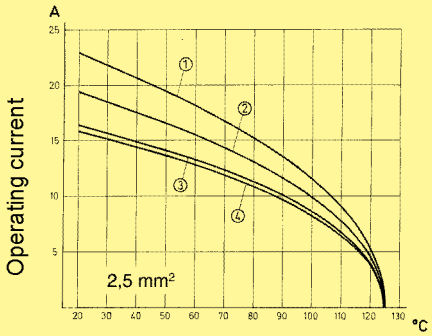
Current carrying capacity

The current carrying capacity of the connectors is limited by the thermal load capability of the contact element material including the connections and the insulating parts. The derating curve is therefore valid for currents which flow constantly (non-intermittent) through each contact element of the connector evenly, without exceeding the allowed maximum temperature.

Measuring and testing techniques according to DIN EN 60 512-5-2



Ambient temperature

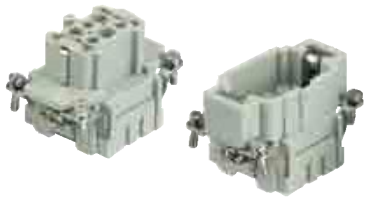


Ambient temperature

① Han® 6 ESS
② Han® 10 ESS
③ Han® 16 ESS
④ Han® 24 ESS

Number of contacts

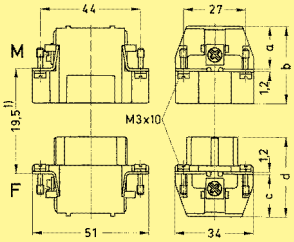
6 + ⏚



Inserts

Identification	Series	Part number Male insert (M)	Part number Female insert (F)
Crimp terminal Order crimp contacts separately (see Technical characteristics on page 03.03) 	Han E®	**09 33 006 2602**	**09 33 006 2702**
Screw terminal with wire protection 	Han E®	**09 33 006 2601**	**09 33 006 2701**
Cage-clamp terminal 	Han® ES	**09 33 006 2616**	**09 33 006 2716**
Cage-clamp terminal two terminals per contact 	Han® ESS	**09 33 006 2672**	**09 33 006 2772**

Drawing

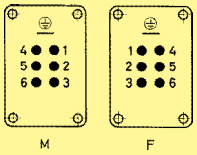


1) Distance for contact max. 21 mm

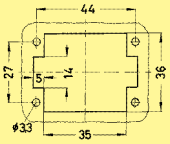
Dimensions in mm

	a	b	c	d
Han E® screw	18	33	18	35
Han® ES / Han E® crimp	19	34	19	36
Han® ESS	34	49	32	49

Contact arrangement
view from termination side



Panel cut out



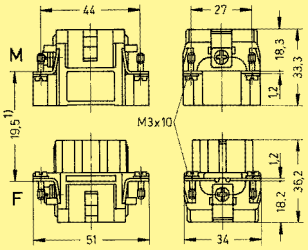
Stock items in bold type

Number of contacts

10 + ⏚

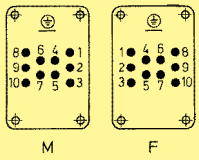
Inserts

Identification	Series	Part number Male insert (M)	Part number Female insert (F)	Drawing	Dimensions in mm
Crimp termination Order crimp contacts separately (see Technical characteristics on page 03.05)	Han® EE	**09 32 010 3001**	**09 32 010 3101**		

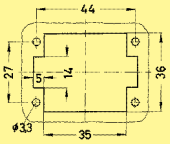


1) Distance for contact max. 21 mm

Contact arrangement
view from termination side



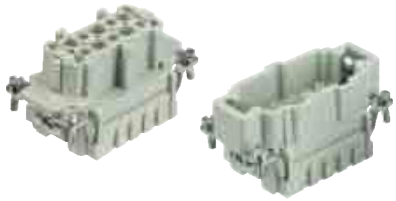
Panel cut out



Stock items in bold type

Number of contacts

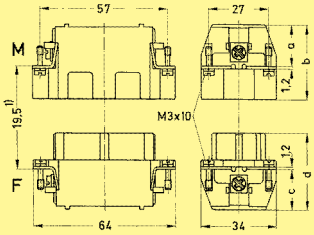
10 + ⏚



Inserts

Identification	Series	Part number Male insert (M)	Part number Female insert (F)
Crimp terminal Order crimp contacts separately (see Technical characteristics on page 03.03)	Han E®	**09 33 010 2602**	**09 33 010 2702**
Screw terminal with wire protection	Han E®	**09 33 010 2601**	**09 33 010 2701**
Cage-clamp terminal	Han® ES	**09 33 010 2616**	**09 33 010 2716**
Cage-clamp terminal two terminals per contact	Han® ESS	**09 33 010 2672**	**09 33 010 2772**

Drawing

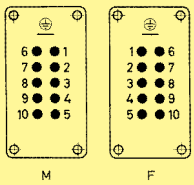


1) Distance for contact max. 21 mm

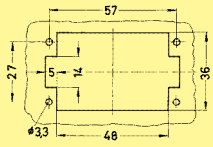
Dimensions in mm

	a	b	c	d
Han E® screw	18	33	18	35
Han® ES / Han E® crimp	19	34	19	36
Han® ESS	34	49	32	49

Contact arrangement
view from termination side



Panel cut out



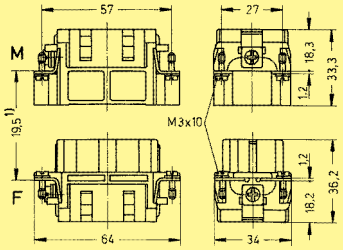
Stock items in bold type

Number of contacts

18 + ⏚

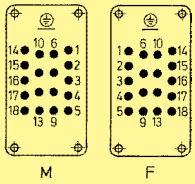
Inserts

Identification	Series	Part number Male insert (M)	Part number Female insert (F)	Drawing	Dimensions in mm
Crimp termination Order crimp contacts separately (see Technical characteristics on page 03.05)	Han® EE	**09 32 018 3001**	**09 32 018 3101**		

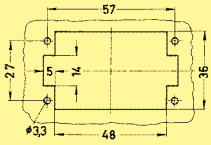


1) Distance for contact max. 21 mm

Contact arrangement
view from termination side



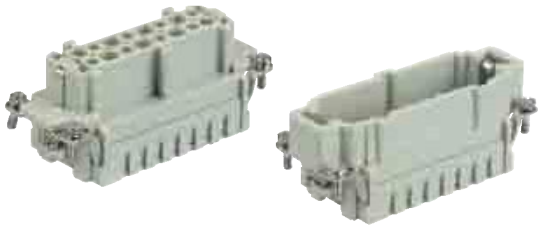
Panel cut out



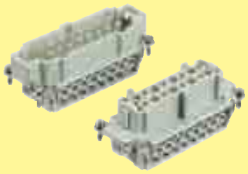
Stock items in bold type

Number of contacts

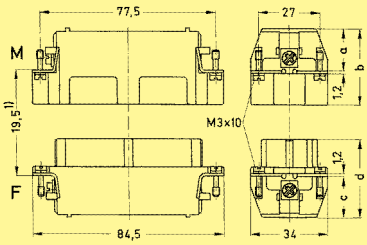
16 + ⏚



Inserts

Identification	Series	Part number Male insert (M)	Part number Female insert (F)
Crimp terminal Order crimp contacts separately (see Technical characteristics on page 03.03) 	Han E®	**09 33 016 2602**	**09 33 016 2702**
Screw terminal with wire protection 	Han E®	**09 33 016 2601**	**09 33 016 2701**
Cage-clamp terminal 	Han® ES	**09 33 016 2616**	**09 33 016 2716**
Cage-clamp terminal two terminals per contact 	Han® ESS	**09 33 016 2672**	**09 33 016 2772**

Drawing

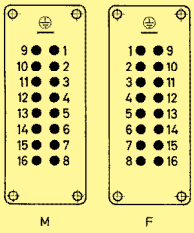


1) Distance for contact max. 21 mm

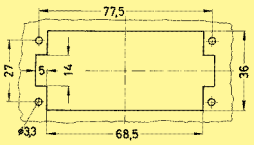
Dimensions in mm

	a	b	c	d
Han E® screw	18	33	18	35
Han® ES / Han E® crimp	19	34	19	36
Han® ESS	34	49	32	49

Contact arrangement
view from termination side



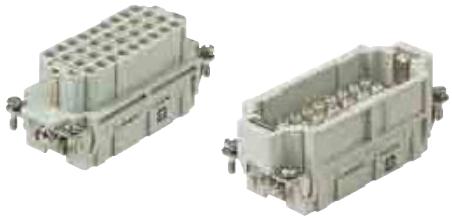
Panel cut out



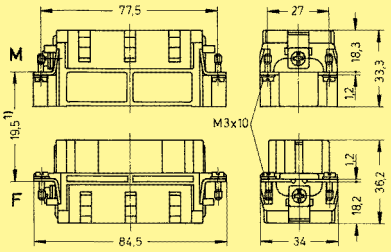
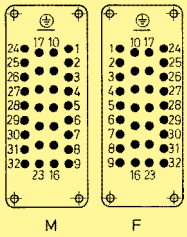
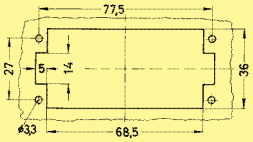
Stock items in bold type

Number of contacts

32 + ⏚



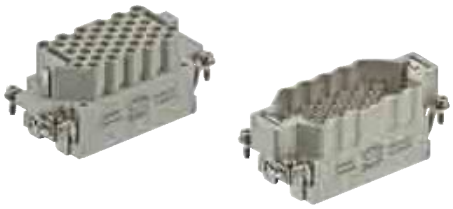
Inserts

Identification	Series	Part number Male insert (M)	Part number Female insert (F)	Drawing	Dimensions in mm
Crimp termination Order crimp contacts separately (see Technical characteristics on page 03.05) 	Han® EE	**09 32 032 3001**	**09 32 032 3101**	 1) Distance for contact max. 21 mm Contact arrangement view from termination side  Panel cut out 	

Stock items in bold type

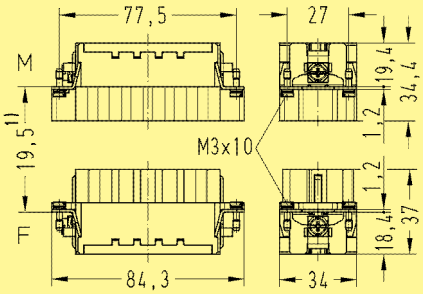
Number of contacts

40 + ⏚



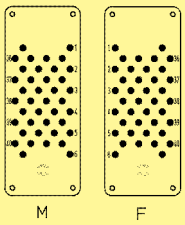
Inserts

Identification	Series	Part number Male insert (M)	Part number Female insert (F)	Drawing	Dimensions in mm
Crimp termination Order crimp contacts separately (see Technical characteristics on page 03.07)	Han® EEE	**09 32 040 3001**	**09 32 040 3101**		

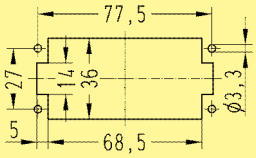


1) Distance for contact max. 21 mm

Contact arrangement
view from termination side



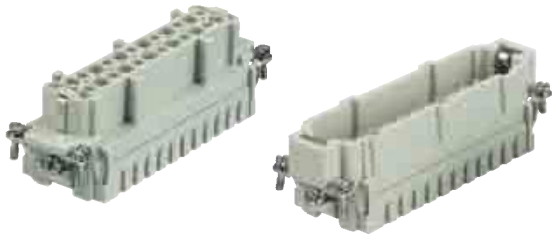
Panel cut out



Stock items in bold type

Number of contacts

24 + ⏚

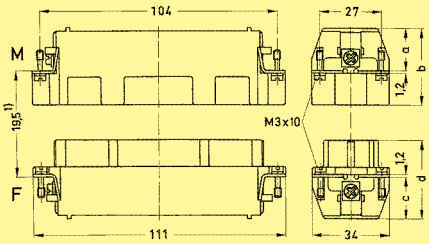


Inserts

Identification	Series	Part number Male insert (M)	Part number Female insert (F)
Crimp terminal Order crimp contacts separately (see Technical characteristics on page 03.03)	Han E®	**09 33 024 2602**	**09 33 024 2702**
Screw terminal with wire protection	Han E®	**09 33 024 2601**	**09 33 024 2701**
Cage-clamp terminal	Han® ES	**09 33 024 2616**	**09 33 024 2716**
Cage-clamp terminal two terminals per contact	Han® ESS	**09 33 024 2672**	**09 33 024 2772**

Dimensions in mm

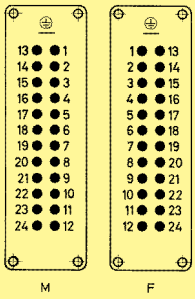
Drawing



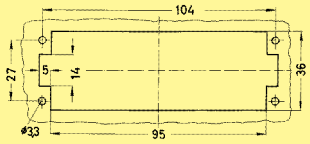
1) Distance for contact max. 21 mm

	a	b	c	d
Han E® screw	18	33	18	35
Han® ES / Han E® crimp	19	34	19	36
Han® ESS	34	49	32	49

Contact arrangement
view from termination side



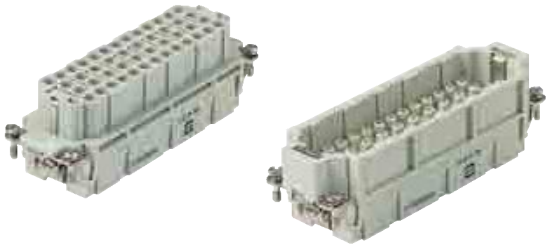
Panel cut out



Stock items in bold type

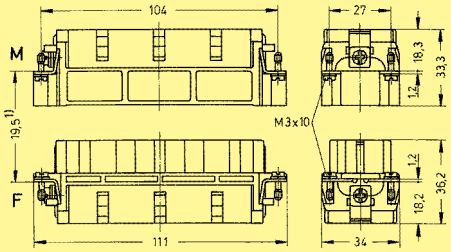
Number of contacts

46 + ⏚



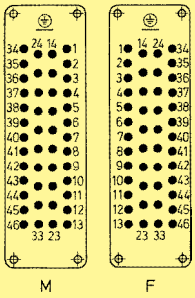
Inserts

Identification	Series	Part number Male insert (M)	Part number Female insert (F)	Drawing	Dimensions in mm
Crimp termination Order crimp contacts separately (see Technical characteristics on page 03.05)	Han® EE	**09 32 046 3001**	**09 32 046 3101**		

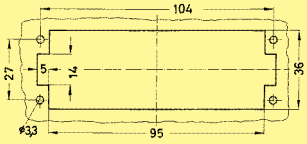


1) Distance for contact max. 21 mm

Contact arrangement
view from termination side



Panel cut out

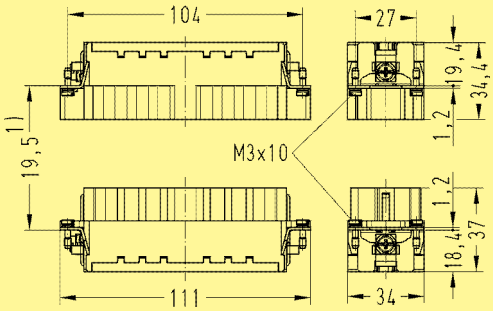
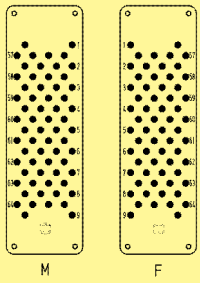
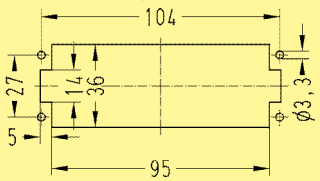


Stock items in bold type

Number of contacts

64 + ⏚

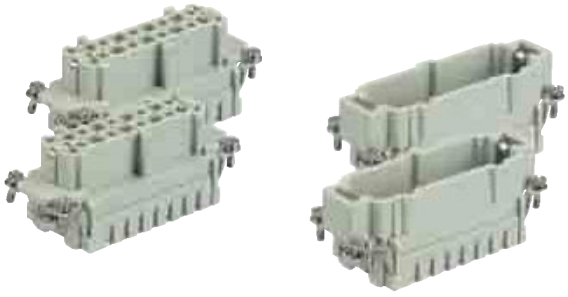
Inserts

Identification	Series	Part number Male insert (M)	Part number Female insert (F)	Drawing	Dimensions in mm
Crimp termination Order crimp contacts separately (see Technical characteristics on page 03.07) 	Han® EEE	**09 32 064 3001**	**09 32 064 3101**	 1) Distance for contact max. 21 mm Contact arrangement view from termination side  Panel cut out 	

Stock items in bold type

Number of contacts

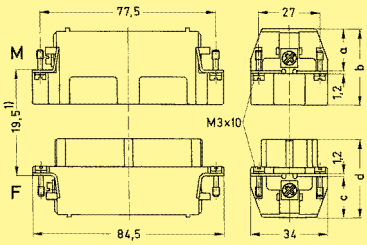
32 + ⏚



Inserts

Identification	Series	Part number Male insert (M)	Part number Female insert (F)
Crimp terminal Order crimp contacts separately (see Technical characteristics on page 03.03)	Han E® 1 - 16 17 - 32	**09 33 016 2602** 09 33 016 2612	**09 33 016 2702** 09 33 016 2712
Screw terminal with wire protection	Han E® 1 - 16 17 - 32	**09 33 016 2601** **09 33 016 2611**	**09 33 016 2701** **09 33 016 2711**
Cage-clamp terminal	Han® ES 1 - 16 17 - 32	**09 33 016 2616** 09 33 016 2626	**09 33 016 2716** 09 33 016 2726
Cage-clamp terminal two terminals per contact	Han® ESS 1 - 16 1 - 16	**09 33 016 2672** **09 33 016 2672**	**09 33 016 2772** **09 33 016 2772**

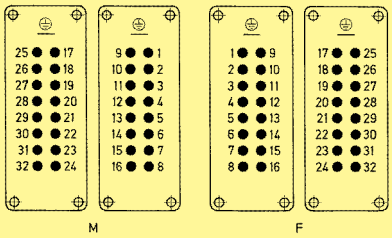
Drawing



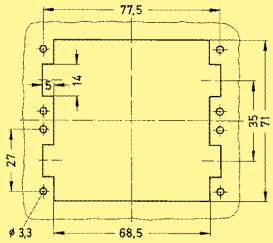
1) Distance for contact max. 21 mm

	a	b	c	d
Han E® screw	18	33	18	35
Han® ES / Han E® crimp	19	34	19	36
Han® ESS	34	49	32	49

Contact arrangement
view from termination side



Panel cut out



Dimensions in mm

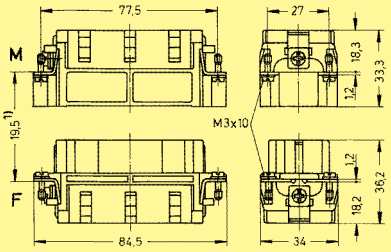
Stock items in bold type

Number of contacts

64 + ⏚

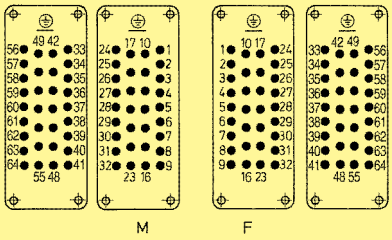
Inserts

Identification	Series	Part number Male insert (M)	Part number Female insert (F)	Drawing	Dimensions in mm
Crimp termination Order crimp contacts separately (see Technical characteristics on page 03.05)	Han® EE 1 - 32 33 - 64	**09 32 032 3001** **09 32 032 3011**	**09 32 032 3101** **09 32 032 3111**		

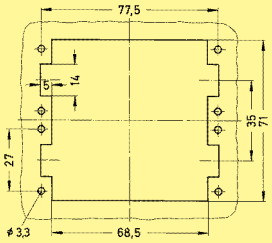


1) Distance for contact max. 21 mm

Contact arrangement
view from termination side



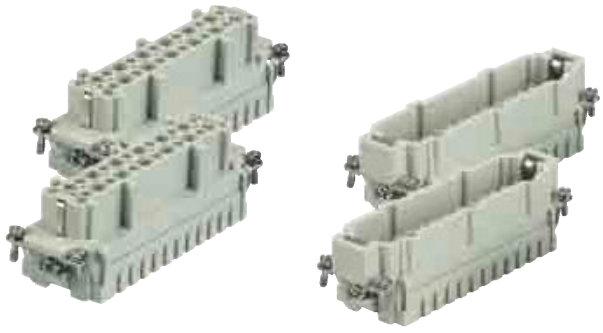
Panel cut out



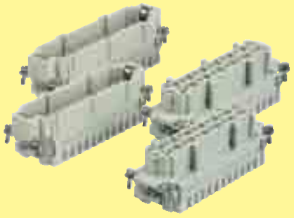
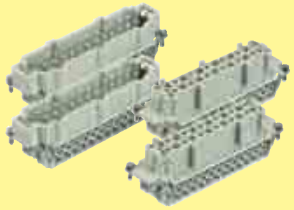
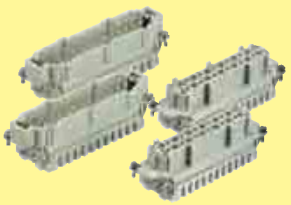
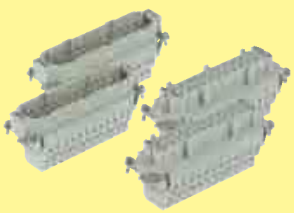
Stock items in bold type

Number of contacts

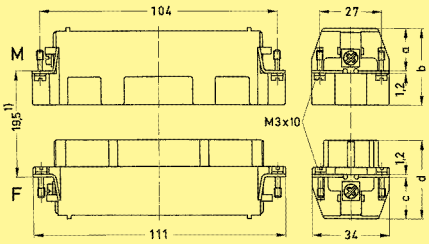
48 + ⏚



Inserts

Identification	Series	Part number Male insert (M)	Part number Female insert (F)
Crimp terminal Order crimp contacts separately (see Technical characteristics on page 03.03) 	Han E® 1 - 24 25 - 48	**09 33 024 2602** 09 33 024 2612	**09 33 024 2702** 09 33 024 2712
Screw terminal with wire protection 	Han E® 1 - 24 25 - 48	**09 33 024 2601** **09 33 024 2611**	**09 33 024 2701** **09 33 024 2711**
Cage-clamp terminal 	Han® ES 1 - 24 25 - 48	**09 33 024 2616** 09 33 024 2626	**09 33 024 2716** 09 33 024 2726
Cage-clamp terminal two terminals per contact 	Han® ESS 1 - 24 1 - 24	**09 33 024 2672** **09 33 024 2672**	**09 33 024 2772** **09 33 024 2772**

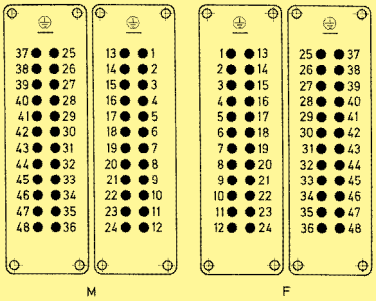
Drawing



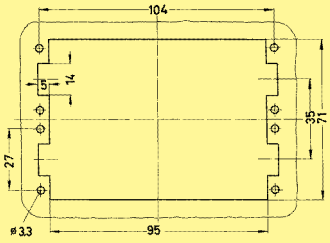
1) Distance for contact max. 21 mm

	a	b	c	d
Han E® screw	18	33	18	35
Han® ES / Han E® crimp	19	34	19	36
Han® ESS	34	49	32	49

Contact arrangement
view from termination side



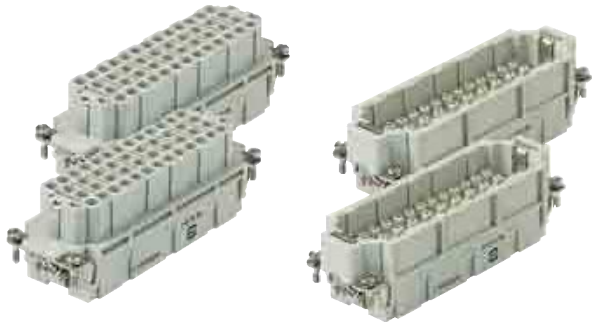
Panel cut out



Stock items in bold type

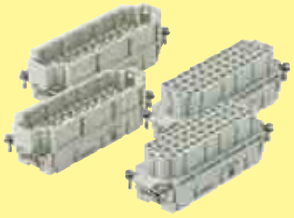
Number of contacts

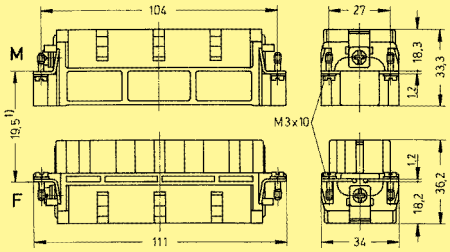
92 + ⏚



Inserts

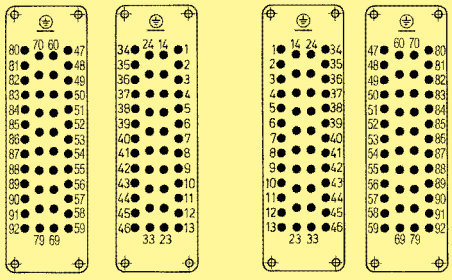
Identification	Series	Part number Male insert (M)	Part number Female insert (F)	Drawing	Dimensions in mm
Crimp termination Order crimp contacts separately (see Technical characteristics on page 03.05)	Han® EE				
	1 - 46	**09 32 046 3001**	**09 32 046 3101**		
	47 - 92	**09 32 046 3011**	**09 32 046 3111**		



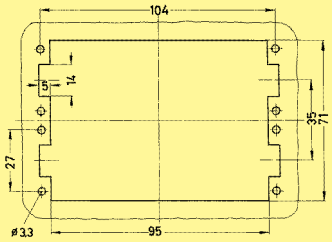


1) Distance for contact max. 21 mm

Contact arrangement
view from termination side



Panel cut out



Stock items in bold type

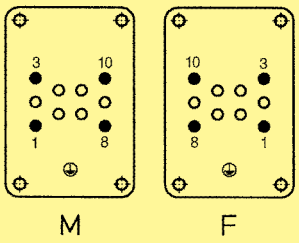
Modified contact arrangement up to 1000 V

The connector series Han® EE equipped with all contacts may be used for voltages up to 500 V ~ pollution degree 3. A modified contact loading arrangement permits use up to 1000 V ~ pollution degree also in pollution degree C. Fully equipped connectors may also be used up to 1000 V ~ but in a lower pollution degree. See page 00.22. According to DIN EN 61 984 connectors should not be coupled or decoupled under electrical load.

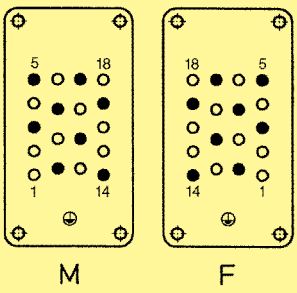
690 V Pollution degree 3

Contact arrangement view from termination side

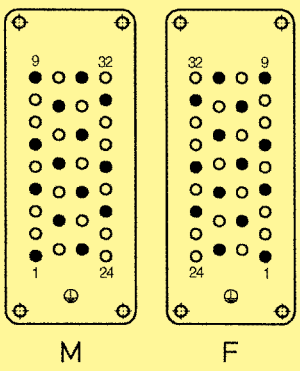
4 + ⏚



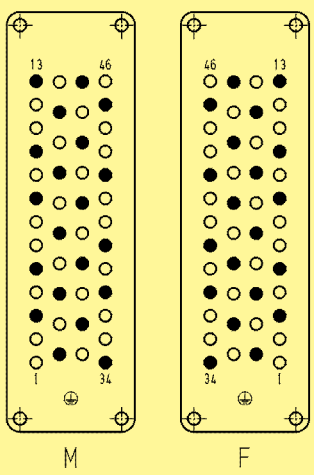
8 + ⏚



14 + ⏚



20 + ⏚

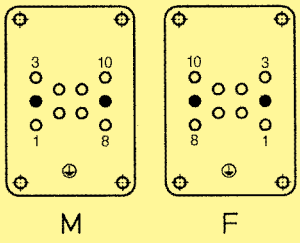


● Working contact ○ Without contact M - Male insert F - Female insert

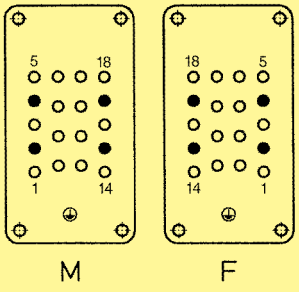
1000 V Pollution degree 3

Contact arrangement view from termination side

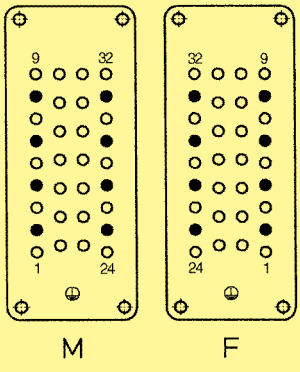
2 + ⏚



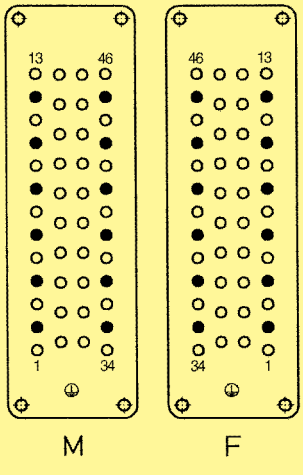
4 + ⏚



8 + ⏚



12 + ⏚



● Working contact ○ Without contact M - Male insert F - Female insert