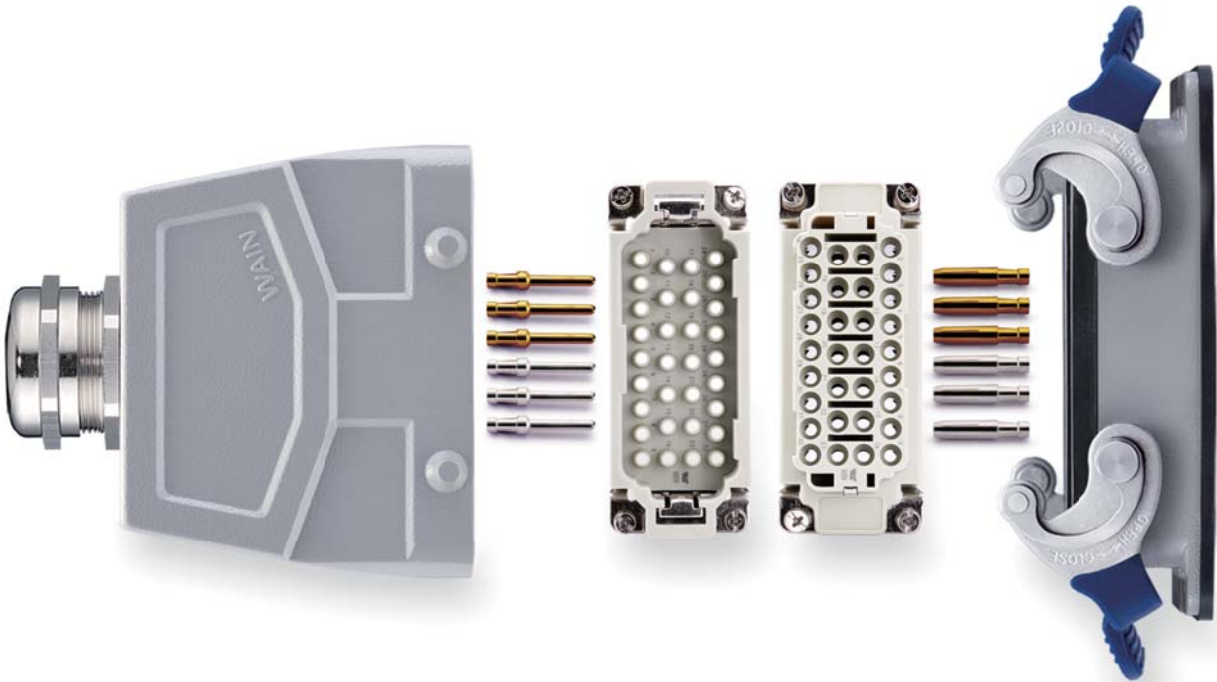


# HEE SERIES


High density connector



HEE

# HEE SERIES High density inserts

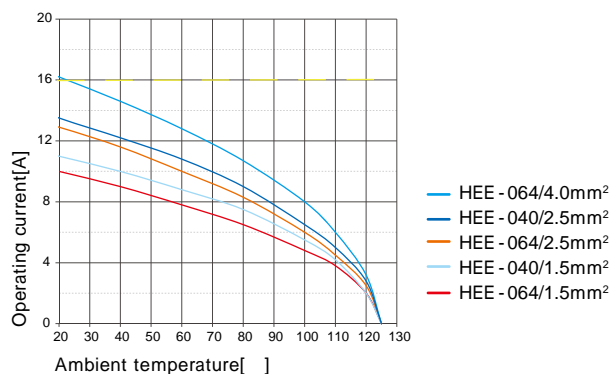
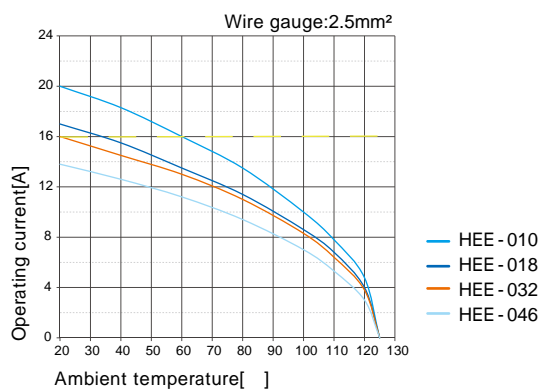
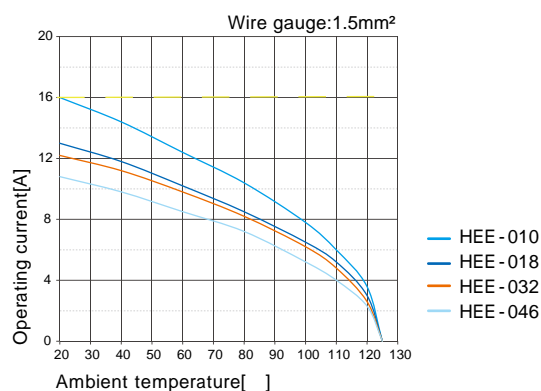
## Technical characteristics

Specifications	DIN EN 60 664 DIN EN 61 984
Approvals	
Inserts	
Number of contacts	10,18,32,40,46,64,64(2x32), 92(2x46)+PE
Electrical data acc. to EN 61 984	
- Rated current	16A
- Rated voltage	500V
- Rated impulse voltage	6kV
- Pollution degree	3
- Pollution degree 2 also	16A 830V 8kV 2
Rated voltage acc. to UL	600V
Insulation resistance	10 <sup>10</sup>
Material	polycarbonate
Limiting temperatures	-40 ...+125
Flammability acc. to UL 94	V0
Mechanical working life(mating cycles)	500
Contacts	
Material	copper alloy
Surface	hard - gold plated hard - silver plated
Contact resistance	1m
Crimp terminal	
- Wire gauge	0.14 - 4.0mm <sup>2</sup>
- AWG	26 - 12
- Stripping length	7.5mm

## Current carrying capacity

The current carrying is limited by maximum temperature of materials for inserts and contacts including terminals

Control and test procedures according to DIN EN 60512 - 5

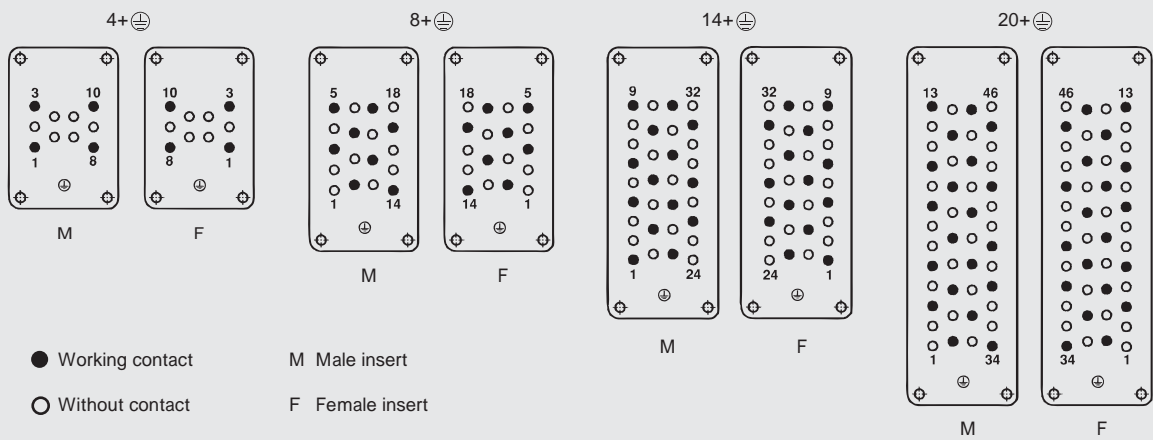


## HEE Modified contact arrangement up to 1000 V

The connector series HEE 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 3 also in pollution degree C. Fully equipped connectors may also be used up to 1000 V ~ but in a lower pollution degree. According to DIN EN 61 984 connectors should not be coupled or decoupled under electrical load.

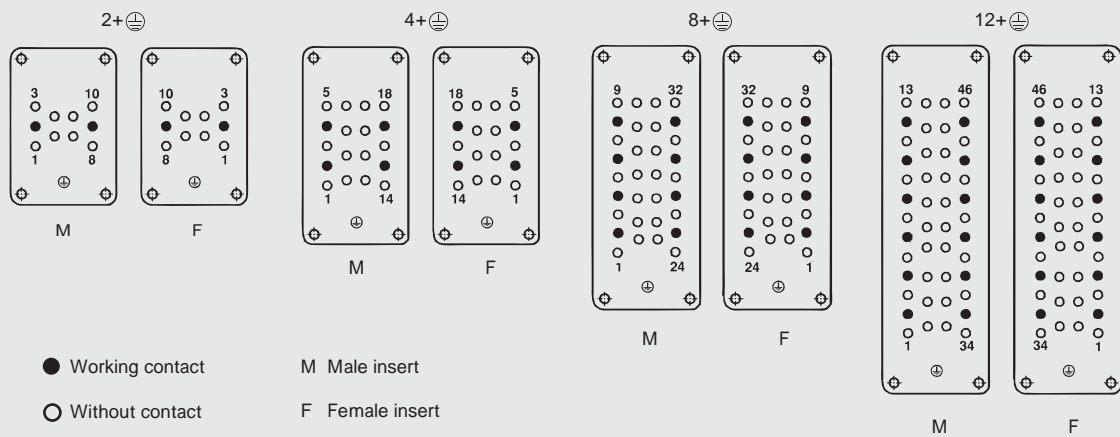
### Contact arrangement view from termination side

690 V Pollution degree 3




### Contact arrangement view from termination side

1000 V Pollution degree 3



# HEE-010 High density inserts

500V 16A 10+ 



## Inserts

Hoods/Housings: size **6B**, please find the details on page 15-25-15-38.

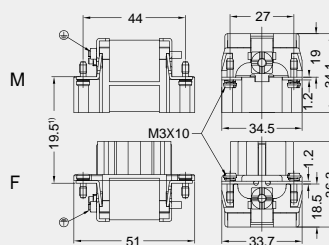
### Crimp terminal

order crimp contacts separately

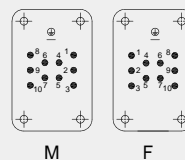


Insert	Designation	Order No.
Male	HEE - 010 - MC	123 010 010 0001
Female	HEE - 010 - FC	123 010 020 0001

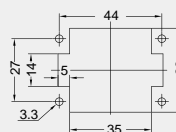
1) Distance for contact max. 21 mm



Contact arrangement view from termination side



Panel cut out for inserts for use without hoods/housings



## Crimp contacts

### Crimp contacts 16A

Contact resistance 1m  
silver plated

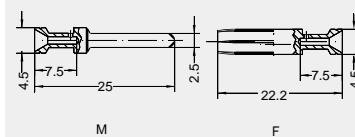


gold plated



More crimp contacts 16A see P13 - 04.

Male	Order No.	Female	Order No.
CESM - 0.37	101 019 110 0301	CESF - 0.37	101 019 120 0301
CESM - 0.50	101 019 110 0401	CESF - 0.50	101 019 120 0401
CESM - 0.75	101 019 110 0601	CESF - 0.75	101 019 120 0601
CESM - 1.0	101 019 110 0801	CESF - 1.0	101 019 120 0801
CESM - 1.5	101 019 110 0901	CESF - 1.5	101 019 120 0901
CESM - 2.5	101 019 110 1001	CESF - 2.5	101 019 120 1001
CESM - 3.0	101 019 110 1101	CESF - 3.0	101 019 120 1101
CESM - 4.0	101 019 110 1201	CESF - 4.0	101 019 120 1201
CEGM - 0.37	101 019 210 0301	CEGF - 0.37	101 019 220 0301
CEGM - 0.50	101 019 210 0401	CEGF - 0.50	101 019 220 0401
CEGM - 0.75	101 019 210 0601	CEGF - 0.75	101 019 220 0601
CEGM - 1.0	101 019 210 0801	CEGF - 1.0	101 019 220 0801
CEGM - 1.5	101 019 210 0901	CEGF - 1.5	101 019 220 0901
CEGM - 2.5	101 019 210 1001	CEGF - 2.5	101 019 220 1001
CEGM - 3.0	101 019 210 1101	CEGF - 3.0	101 019 220 1101
CEGM - 4.0	101 019 210 1201	CEGF - 4.0	101 019 220 1201



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

When the wire gauge is less than 0.75mm<sup>2</sup>, it's better to use the auxiliary pin assembly tool TL15.

### Tools

Crimping tool



Contact removal tool



Wire gauge	Designation	Order No.
0.5 - 4mm <sup>2</sup>	TL02G	198 001 001 0011

Wire gauge: 0.14 - 0.37mm<sup>2</sup> please select TL02 Crimping tool.

Application	Designation	Order No.
for crimp contacts 16A	TL01	198 001 000 0002

More tools detail please find the page 32 - 03 - 32 - 06.

Notes: The tools for crimp terminal may influence the product quality and stability. Please select the tools recognized by our company.

# HEE-018 High density inserts

500V 16A 18+ 



## Inserts

Hoods/Housings : size 10B, detail please find the page15-39-15-69.

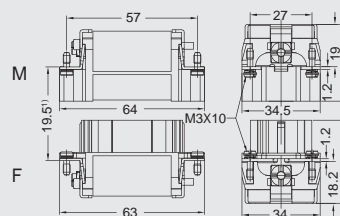
### Crimp terminal

Order crimp contacts separately

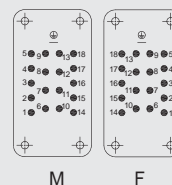


Insert	Designation	Order No.
Male	HEE - 018 - MC	123 018 010 0001
Female	HEE - 018 - FC	123 018 020 0001

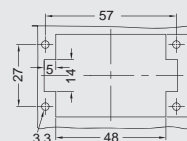
1) Distance for contact max. 21 mm



Contact arrangement view from termination side



Panel cut out for inserts for use without hoods/housings



## Crimp contacts

### Crimp contacts 16A

Contact resistance 1m silver plated



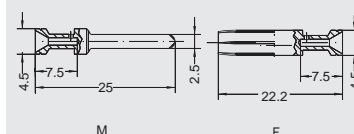
gold plated



More crimp contacts 16A see P13 - 04.

Male	Order No.	Female	Order No.
CESM - 0.37	101 019 110 0301	CESF - 0.37	101 019 120 0301
CESM - 0.50	101 019 110 0401	CESF - 0.50	101 019 120 0401
CESM - 0.75	101 019 110 0601	CESF - 0.75	101 019 120 0601
CESM - 1.0	101 019 110 0801	CESF - 1.0	101 019 120 0801
CESM - 1.5	101 019 110 0901	CESF - 1.5	101 019 120 0901
CESM - 2.5	101 019 110 1001	CESF - 2.5	101 019 120 1001
CESM - 3.0	101 019 110 1101	CESF - 3.0	101 019 120 1101
CESM - 4.0	101 019 110 1201	CESF - 4.0	101 019 120 1201

CEGM - 0.37	101 019 210 0301	CEGF - 0.37	101 019 220 0301
CEGM - 0.50	101 019 210 0401	CEGF - 0.50	101 019 220 0401
CEGM - 0.75	101 019 210 0601	CEGF - 0.75	101 019 220 0601
CEGM - 1.0	101 019 210 0801	CEGF - 1.0	101 019 220 0801
CEGM - 1.5	101 019 210 0901	CEGF - 1.5	101 019 220 0901
CEGM - 2.5	101 019 210 1001	CEGF - 2.5	101 019 220 1001
CEGM - 3.0	101 019 210 1101	CEGF - 3.0	101 019 220 1101
CEGM - 4.0	101 019 210 1201	CEGF - 4.0	101 019 220 1201



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

When the wire gauge is less than 0.75mm<sup>2</sup>, it's better to use the auxiliary pin assembly tool TL15.

### Tools

Crimping tool



Contact removal tool



Wire gauge	Designation	Order No.
0.5 - 4mm <sup>2</sup>	TL02G	198 001 001 0011

Wire gauge: 0.14 - 0.37mm<sup>2</sup> please select TL02 Crimping tool.

Application	Designation	Order No.
for crimp contacts 16A	TL01	198 001 000 0002

More tools detail please find the page32 - 03 - 32 - 06.

Notes: The tools for crimp terminal may influence the product quality and stability. Please select the tools recognized by our company.

# HEE-032 High density inserts

500V 16A 32+

## Inserts

Hoods/Housings: size 16B, please find the details on page 15-70~15-107.

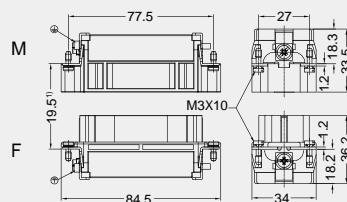
### Crimp terminal

Order crimp contacts separately

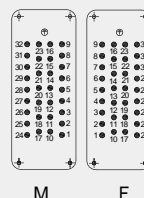


Insert	Designation	Order No.
Male	HEE - 032 - MC	123 032 010 0001
Female	HEE - 032 - FC	123 032 020 0001

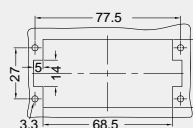
1) Distance for contact max. 21 mm



Contact arrangement view from termination side



Panel cut out for inserts for use without hoods/housings



## Crimp contacts

### Crimp contacts 16A

Contact resistance 1m  
silver plated

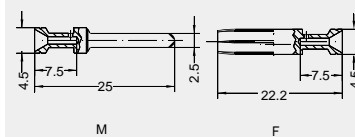


gold plated



More crimp contacts 16A see P13 - 04.

Male	Order No.	Female	Order No.
CESM - 0.37	101 019 110 0301	CESF - 0.37	101 019 120 0301
CESM - 0.50	101 019 110 0401	CESF - 0.50	101 019 120 0401
CESM - 0.75	101 019 110 0601	CESF - 0.75	101 019 120 0601
CESM - 1.0	101 019 110 0801	CESF - 1.0	101 019 120 0801
CESM - 1.5	101 019 110 0901	CESF - 1.5	101 019 120 0901
CESM - 2.5	101 019 110 1001	CESF - 2.5	101 019 120 1001
CESM - 3.0	101 019 110 1101	CESF - 3.0	101 019 120 1101
CESM - 4.0	101 019 110 1201	CESF - 4.0	101 019 120 1201
CEGM - 0.37	101 019 210 0301	CEGF - 0.37	101 019 220 0301
CEGM - 0.50	101 019 210 0401	CEGF - 0.50	101 019 220 0401
CEGM - 0.75	101 019 210 0601	CEGF - 0.75	101 019 220 0601
CEGM - 1.0	101 019 210 0801	CEGF - 1.0	101 019 220 0801
CEGM - 1.5	101 019 210 0901	CEGF - 1.5	101 019 220 0901
CEGM - 2.5	101 019 210 1001	CEGF - 2.5	101 019 220 1001
CEGM - 3.0	101 019 210 1101	CEGF - 3.0	101 019 220 1101
CEGM - 4.0	101 019 210 1201	CEGF - 4.0	101 019 220 1201



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

When the wire gauge is less than 0.75mm<sup>2</sup>, it's better to use the auxiliary pin assembly tool TL15.

### Tools

Crimping tool



Contact removal tool



Wire gauge	Designation	Order No.
0.5 - 4mm <sup>2</sup>	TL02G	198 001 001 0011

Wire gauge: 0.14 - 0.37mm<sup>2</sup> please select TL02 Crimping tool.

Application	Designation	Order No.
for crimp contacts 16A	TL01	198 001 000 0002

More tools detail please find the page 32 - 03 - 32 - 06.

Notes: The tools for crimp terminal may influence the product quality and stability. Please select the tools recognized by our company.

# HEE-046 High density inserts

500V 16A 46+



## Inserts

Hoods/Housings: size 24B, please find the details on page 15-108-15-150.

### Crimp terminal

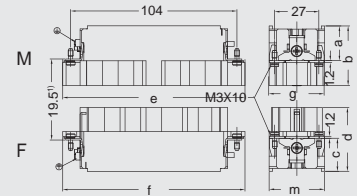
Order crimp contacts separately



Insert	Designation	Order No.
Male	HEE -046 - MC	123 046 010 0011
Female	HEE -046 - FC	123 046 020 0011
Male	HEE -046 - MC/N <sup>2)</sup>	123 046 010 0101
Female	HEE -046 - FC/N <sup>2)</sup>	123 046 020 0101

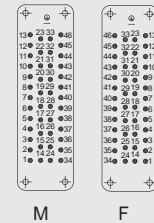
2).for crimp contacts 16A - Enhanced ,see page 13-04.

1) Distance for contact max. 21 mm

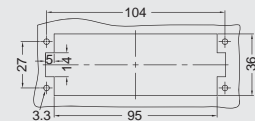


	a	b	e	g	c	d	f	m
M/F	18.5	33.8	110.5	34.4	18.3	36.2	110	34.4
MC/FC	18.3	33.8	110	34.4	18.2	36.2	110	34.4

Contact arrangement view from termination side



Panel cut out for inserts for use without hoods/housings



## Crimp contacts

### Crimp contacts 16A

Contact resistance 1m silver plated



gold plated



Male	Order No.	Female	Order No.
CESM -0.37	101 019 110 0301	CESF -0.37	101 019 120 0301
CESM -0.50	101 019 110 0401	CESF -0.50	101 019 120 0401
CESM -0.75	101 019 110 0601	CESF -0.75	101 019 120 0601
CESM -1.0	101 019 110 0801	CESF -1.0	101 019 120 0801
CESM -1.5	101 019 110 0901	CESF -1.5	101 019 120 0901
CESM -2.5	101 019 110 1001	CESF -2.5	101 019 120 1001
CESM -3.0	101 019 110 1101	CESF -3.0	101 019 120 1101
CESM -4.0	101 019 110 1201	CESF -4.0	101 019 120 1201
CEGM -0.37	101 019 210 0301	CEGF -0.37	101 019 220 0301
CEGM -0.50	101 019 210 0401	CEGF -0.50	101 019 220 0401
CEGM -0.75	101 019 210 0601	CEGF -0.75	101 019 220 0601
CEGM -1.0	101 019 210 0801	CEGF -1.0	101 019 220 0801
CEGM -1.5	101 019 210 0901	CEGF -1.5	101 019 220 0901
CEGM -2.5	101 019 210 1001	CEGF -2.5	101 019 220 1001
CEGM -3.0	101 019 210 1101	CEGF -3.0	101 019 220 1101
CEGM -4.0	101 019 210 1201	CEGF -4.0	101 019 220 1201

More crimp contacts 16A see P13-04.

### Tools

Crimping tool



Contact removal tool

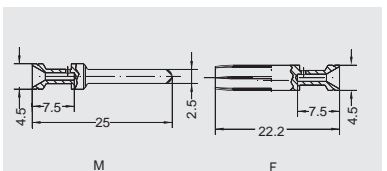


Wire gauge	Designation	Order No.
0.5 - 4mm <sup>2</sup>	TL02G	198 001 001 0011

Wire gauge: 0.14 - 0.37mm<sup>2</sup> please select TL02 Crimping tool.

Application	Designation	Order No.
for crimp contacts 16A	TL01	198 001 000 0002

More tools detail please find the page 32-03-32-06.



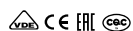
Identification	Wire gauge	Stripping length
no groove	0.14 - 0.37 mm <sup>2</sup>	AWG 26-22 7.5mm
no groove	0.5 mm <sup>2</sup>	AWG 20 7.5mm
1 groove	0.75 mm <sup>2</sup>	AWG 18 7.5mm
1 groove	1 mm <sup>2</sup>	AWG 18 7.5mm
2 grooves	1.5 mm <sup>2</sup>	AWG 16 7.5mm
3 grooves	2.5 mm <sup>2</sup>	AWG 14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

When the wire gauge is less than 0.75mm<sup>2</sup>, it's better to use the auxiliary pin assembly tool TL15.

Notes: The tools for crimp terminal may influence the product quality and stability. Please select the tools recognized by our company.

# HEE-032x2 High density inserts

500V 16A 64+



## Inserts

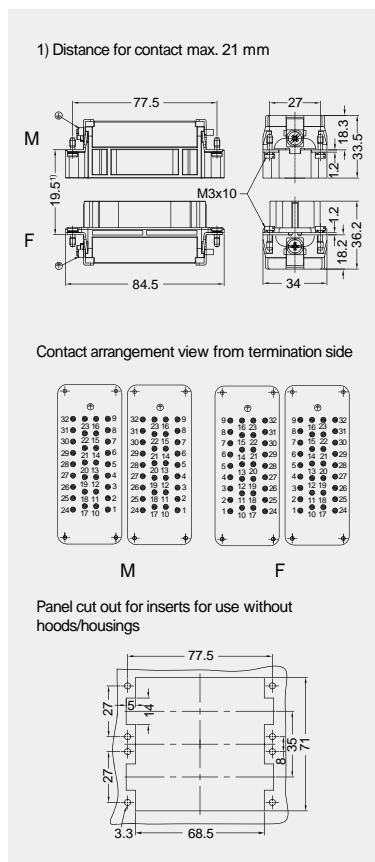
Hoods/Housings: size 32B, please find the details on page 15-151-15-159.

### Crimp terminal

Order crimp contacts separately



Insert	Designation	Order No.
Male	HEE - 032 - MC	123 032 010 0001
	HEE - 032 - MC(33 - 64)	123 032 010 0002
Female	HEE - 032 - FC	123 032 020 0001
	HEE - 032 - FC(33 - 64)	123 032 020 0002



## Crimp contacts

### Crimp contacts 16A

Contact resistance 1m  
silver plated

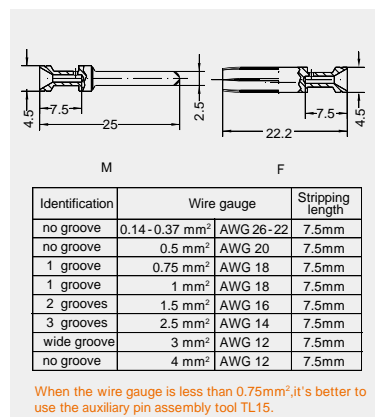


gold plated



More crimp contacts 16A see P13 - 04.

Male	Order No.	Female	Order No.
CESM - 0.37	101 019 110 0301	CESF - 0.37	101 019 120 0301
CESM - 0.50	101 019 110 0401	CESF - 0.50	101 019 120 0401
CESM - 0.75	101 019 110 0601	CESF - 0.75	101 019 120 0601
CESM - 1.0	101 019 110 0801	CESF - 1.0	101 019 120 0801
CESM - 1.5	101 019 110 0901	CESF - 1.5	101 019 120 0901
CESM - 2.5	101 019 110 1001	CESF - 2.5	101 019 120 1001
CESM - 3.0	101 019 110 1101	CESF - 3.0	101 019 120 1101
CESM - 4.0	101 019 110 1201	CESF - 4.0	101 019 120 1201
CEGM - 0.37	101 019 210 0301	CEGF - 0.37	101 019 220 0301
CEGM - 0.50	101 019 210 0401	CEGF - 0.50	101 019 220 0401
CEGM - 0.75	101 019 210 0601	CEGF - 0.75	101 019 220 0601
CEGM - 1.0	101 019 210 0801	CEGF - 1.0	101 019 220 0801
CEGM - 1.5	101 019 210 0901	CEGF - 1.5	101 019 220 0901
CEGM - 2.5	101 019 210 1001	CEGF - 2.5	101 019 220 1001
CEGM - 3.0	101 019 210 1101	CEGF - 3.0	101 019 220 1101
CEGM - 4.0	101 019 210 1201	CEGF - 4.0	101 019 220 1201



### Tools

Crimping tool



Contact removal tool



Wire gauge	Designation	Order No.
0.5 - 4mm <sup>2</sup>	TL02G	198 001 001 0011
Wire gauge: 0.14 - 0.37mm <sup>2</sup> please select TL02 Crimping tool.		
Application	Designation	Order No.
for crimp contacts 16A	TL01	198 001 000 0002

More tools detail please find the page 32 - 03 - 32 - 06.

Notes: The tools for crimp terminal may influence the product quality and stability. Please select the tools recognized by our company.



## HEE-092 High density inserts

500V 16A 92+



### Inserts

Hoods/Housings: size **48B**, please find the details on page 15-160-15-162.

#### Crimp terminal

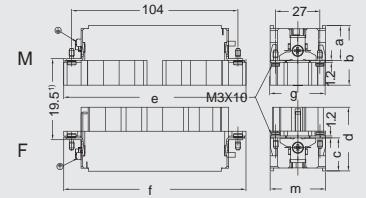
Order crimp contacts separately



Insert	Designation	Order No.
Male	HEE - 046 - MC	123 046 010 0011
	HEE - 046 - MC(47 - 92)	123 046 010 0012
Female	HEE - 046 - FC	123 046 020 0011
	HEE - 046 - FC(47 - 92)	123 046 020 0012
Male	HEE - 046 - MC/N <sup>2)</sup>	123 046 010 0101
	HEE - 046 - MC/N(47 - 92) <sup>2)</sup>	123 046 010 0102
Female	HEE - 046 - FC/N <sup>2)</sup>	123 046 020 0101
	HEE - 046 - FC/N(47 - 92) <sup>2)</sup>	123 046 020 0102

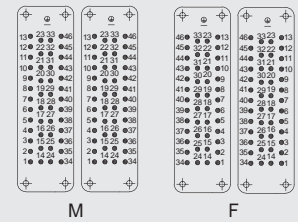
2).for crimp contacts 16A - **Enhanced** ,see page 13 - 04.

1) Distance for contact max. 21 mm

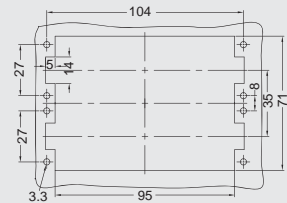


	a	b	e	g	c	d	f	m
M/F	18.5	33.8	110.5	34.4	18.3	36.2	110	34.4
MC/FC	18.3	33.8	110	34.4	18.2	36.2	110	34.4

Contact arrangement view from termination side



Panel cut out for inserts for use without hoods/housings



## Crimp contacts

### Crimp contacts 16A

Contact resistance 1m  
silver plated



gold plated



More crimp contacts 16A see P13 - 04.

#### Tools

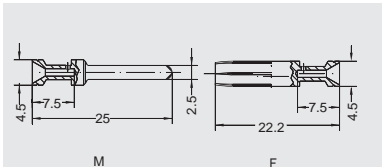
Crimping tool



Contact removal tool



Male	Order No.	Female	Order No.
CESM - 0.37	101 019 110 0301	CESF - 0.37	101 019 120 0301
CESM - 0.50	101 019 110 0401	CESF - 0.50	101 019 120 0401
CESM - 0.75	101 019 110 0601	CESF - 0.75	101 019 120 0601
CESM - 1.0	101 019 110 0801	CESF - 1.0	101 019 120 0801
CESM - 1.5	101 019 110 0901	CESF - 1.5	101 019 120 0901
CESM - 2.5	101 019 110 1001	CESF - 2.5	101 019 120 1001
CESM - 3.0	101 019 110 1101	CESF - 3.0	101 019 120 1101
CESM - 4.0	101 019 110 1201	CESF - 4.0	101 019 120 1201
CEGM - 0.37	101 019 210 0301	CEGF - 0.37	101 019 220 0301
CEGM - 0.50	101 019 210 0401	CEGF - 0.50	101 019 220 0401
CEGM - 0.75	101 019 210 0601	CEGF - 0.75	101 019 220 0601
CEGM - 1.0	101 019 210 0801	CEGF - 1.0	101 019 220 0801
CEGM - 1.5	101 019 210 0901	CEGF - 1.5	101 019 220 0901
CEGM - 2.5	101 019 210 1001	CEGF - 2.5	101 019 220 1001
CEGM - 3.0	101 019 210 1101	CEGF - 3.0	101 019 220 1101
CEGM - 4.0	101 019 210 1201	CEGF - 4.0	101 019 220 1201



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

When the wire gauge is less than 0.75mm<sup>2</sup>, it's better to use the auxiliary pin assembly tool TL15.

Wire gauge	Designation	Order No.
0.5 - 4mm <sup>2</sup>	TL02G	198 001 001 0011

Wire gauge: 0.14 - 0.37mm<sup>2</sup> please select TL02 Crimping tool.

Application	Designation	Order No.
for crimp contacts 16A	TL01	198 001 000 0002

More tools detail please find the page 32 - 03 - 32 - 06.

Notes: The tools for crimp terminal may influence the product quality and stability. Please select the tools recognized by our company.

# HEE-040 High density inserts

500V 16A 40+



## Inserts

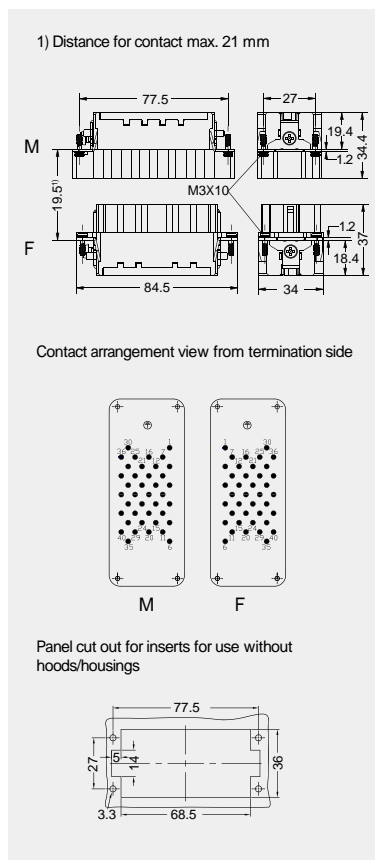
Hoods/Housings: size 16B, please find the details on page 15-70-15-107.

### Crimp terminal

Order crimp contacts separately



Insert	Designation	Order No.
Male	HEE - 040 - MC	123 040 010 0001
Female	HEE - 040 - FC	123 040 020 0001



## Crimp contacts

### Crimp contacts 16A

Contact resistance 1m  
silver plated

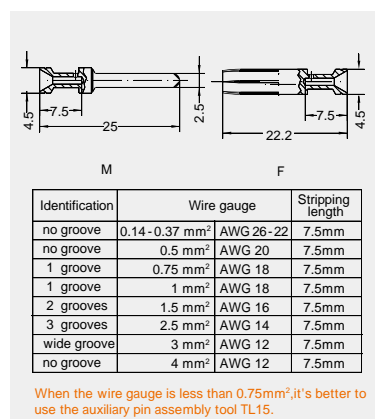


gold plated



More crimp contacts 16A see P13 - 04.

Male	Order No.	Female	Order No.
CESM - 0.37	101 019 110 0301	CESF - 0.37	101 019 120 0301
CESM - 0.50	101 019 110 0401	CESF - 0.50	101 019 120 0401
CESM - 0.75	101 019 110 0601	CESF - 0.75	101 019 120 0601
CESM - 1.0	101 019 110 0801	CESF - 1.0	101 019 120 0801
CESM - 1.5	101 019 110 0901	CESF - 1.5	101 019 120 0901
CESM - 2.5	101 019 110 1001	CESF - 2.5	101 019 120 1001
CESM - 3.0	101 019 110 1101	CESF - 3.0	101 019 120 1101
CESM - 4.0	101 019 110 1201	CESF - 4.0	101 019 120 1201
CEGM - 0.37	101 019 210 0301	CEGF - 0.37	101 019 220 0301
CEGM - 0.50	101 019 210 0401	CEGF - 0.50	101 019 220 0401
CEGM - 0.75	101 019 210 0601	CEGF - 0.75	101 019 220 0601
CEGM - 1.0	101 019 210 0801	CEGF - 1.0	101 019 220 0801
CEGM - 1.5	101 019 210 0901	CEGF - 1.5	101 019 220 0901
CEGM - 2.5	101 019 210 1001	CEGF - 2.5	101 019 220 1001
CEGM - 3.0	101 019 210 1101	CEGF - 3.0	101 019 220 1101
CEGM - 4.0	101 019 210 1201	CEGF - 4.0	101 019 220 1201



### Tools

Crimping tool



Contact removal tool



Wire gauge	Designation	Order No.
0.5 - 4mm <sup>2</sup>	TL02G	198 001 001 0011

Wire gauge: 0.14 - 0.37mm<sup>2</sup> please select TL02 Crimping tool.

Application	Designation	Order No.
for crimp contacts 16A	TL01	198 001 000 0002

More tools detail please find the page 32-03-32-06.

Notes: The tools for crimp terminal may influence the product quality and stability. Please select the tools recognized by our company.

## HEE-064 High density inserts

500V 16A 64+



### Inserts

Hoods/Housings: size 24B, please find the details on page 15-108~15-150.

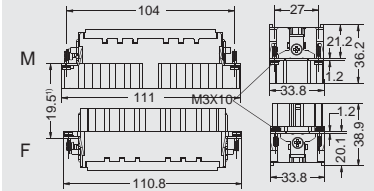
#### Crimp terminal

Order crimp contacts separately

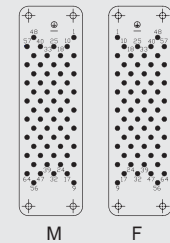


Insert	Designation	Order No.
Male	HEE - 064 - MC	123 064 010 0001
Female	HEE - 064 - FC	123 064 020 0001

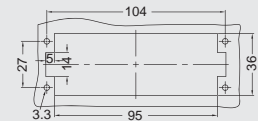
1) Distance for contact max. 21 mm



Contact arrangement view from termination side



Panel cut out for inserts for use without hoods/housings



### Crimp contacts

#### Crimp contacts 16A

Contact resistance 1m  
silver plated

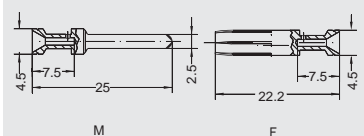


gold plated



More crimp contacts 16A see P13-04.

Male	Order No.	Female	Order No.
CESM - 0.37	101 019 110 0301	CESF - 0.37	101 019 120 0301
CESM - 0.50	101 019 110 0401	CESF - 0.50	101 019 120 0401
CESM - 0.75	101 019 110 0601	CESF - 0.75	101 019 120 0601
CESM - 1.0	101 019 110 0801	CESF - 1.0	101 019 120 0801
CESM - 1.5	101 019 110 0901	CESF - 1.5	101 019 120 0901
CESM - 2.5	101 019 110 1001	CESF - 2.5	101 019 120 1001
CESM - 3.0	101 019 110 1101	CESF - 3.0	101 019 120 1101
CESM - 4.0	101 019 110 1201	CESF - 4.0	101 019 120 1201
CEGM - 0.37	101 019 210 0301	CEGF - 0.37	101 019 220 0301
CEGM - 0.50	101 019 210 0401	CEGF - 0.50	101 019 220 0401
CEGM - 0.75	101 019 210 0601	CEGF - 0.75	101 019 220 0601
CEGM - 1.0	101 019 210 0801	CEGF - 1.0	101 019 220 0801
CEGM - 1.5	101 019 210 0901	CEGF - 1.5	101 019 220 0901
CEGM - 2.5	101 019 210 1001	CEGF - 2.5	101 019 220 1001
CEGM - 3.0	101 019 210 1101	CEGF - 3.0	101 019 220 1101
CEGM - 4.0	101 019 210 1201	CEGF - 4.0	101 019 220 1201



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

When the wire gauge is less than 0.75mm<sup>2</sup>, it's better to use the auxiliary pin assembly tool TL15.

#### Tools

Crimping tool



Contact removal tool



Wire gauge	Designation	Order No.
0.5 - 4mm <sup>2</sup>	TL02G	198 001 001 0011

Wire gauge: 0.14 - 0.37mm<sup>2</sup> please select TL02 Crimping tool.

Application	Designation	Order No.
for crimp contacts 16A	TL01	198 001 000 0002

More tools detail please find the page 32-03-32-06.

Notes: The tools for crimp terminal may influence the product quality and stability. Please select the tools recognized by our company.



HEE