

HK

Technical characteristics



HK

Current carrying capacity

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

Specifications DIN EN 60 664
DIN EN 61 984

Inserts

Number of contacts 4/0+PE, 4/2+PE

Power area	80 A	690 V	3	8KV
Working current	_____			
Working voltage	_____			
Pollution degree	_____			
Rated impulse voltage	_____			
Pollution degree 2 also	80A 1000V 2 8KV			

Signal area	16 A	400 V	3	6KV
Working current	_____			
Working voltage	_____			
Pollution degree	_____			
Rated impulse voltage	_____			
Pollution degree 2 also	16A 400/690V 2 6KV			

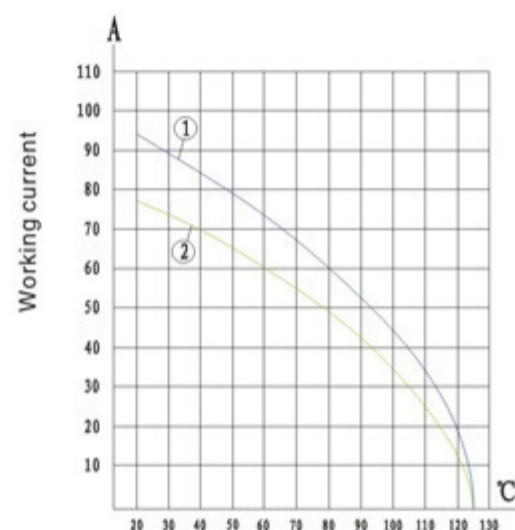
Working voltage acc.to UL/CSA	600V/300V
Material	Polycarbonate
Insulation resistance	$\geq 10^{10} \Omega$
Flammability acc.to(UL94)	VO
Limiting temperatures	-40°C~ +125°C
Mechanical working life(mating cycles)	≥ 500

Contacts

Material	copper alloy
Surface	Silver plated
Contact resistance	Power area $\leq 3m\Omega$ Signal area $\leq 1m\Omega$
Terminal	Screw terminal
Wire gauge	Power area 1.5-16mm ² (AWG16-6) Signal area 1.0-2.5mm ² (AWG18-14) /Signal area 0.5Nm Power area

Screw terminal tightening	mm ²	1.5	2.5	4	6	10	16
	N.m	1.2	2	3	3	3	3

Control and test procedures according to DIN EN 60512-5



Ambient temperature
 1 wire gauge: 16mm²
 2 wire gauge: 10mm²

Hzw-HK

Insert 690/400V 80/16A

Number of contacts

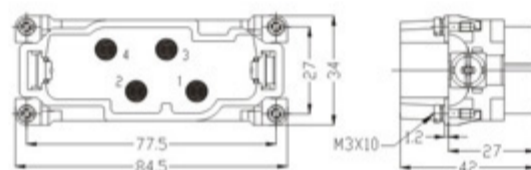
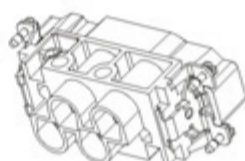
4/0, 4/2 +



TYPE	HZW-HK-4/0-M	HZW-HK-4/0-F	HZW-HK-4/2-M	HZW-HK-4/2-F
Part number	61 209 040 101	61 209 040 102	61 209 042 201	61 209 042 202
Hoods/Housings	Size HZW-HI6B	Size HZW-HI6B	Size HZW-HI6B	Size HZW-HI6B

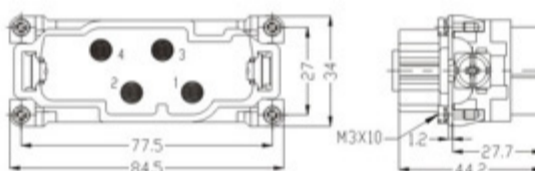
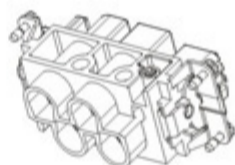
Drawing (Dimensions in mm)

Male insert (M)



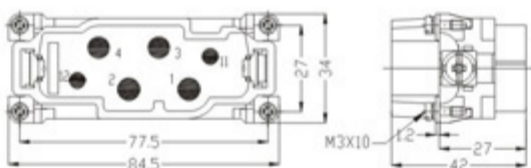
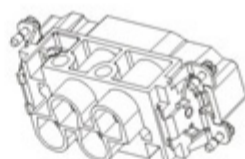
HZW-HK-4/0-M

Female insert (F)



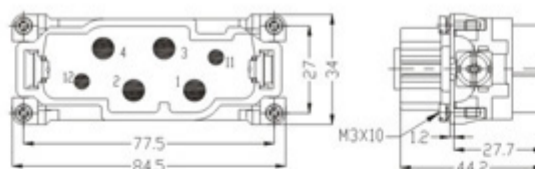
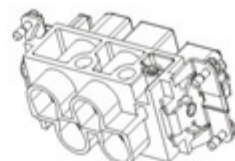
HZW-HK-4/0-F

Male insert (M)



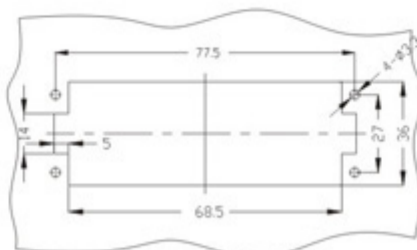
HZW-HK-4/2-M

Female insert (F)



HZW-HK-4/2-F

Panel cut out



Note: Suit hood/housings:Size HI6B

Hood/Housing detail on "Hood/Housing" section

HK

HK

Technical characteristics



Current carrying capacity

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

Specifications DIN EN 60 664
DIN EN 61 984

Inserts

Number of contacts 4/8+PE

Power area	80 A	400 V	3	6KV
Working current	[Line to 80 A]			
Working voltage	[Line to 400 V]			
Pollution degree	[Line to 3]			
Rated impulse voltage	[Line to 6KV]			

Pollution degree 2 also 80A 400/690V 2 6KV

Signal area	16 A	400 V	3	6KV
Working current	[Line to 16 A]			
Working voltage	[Line to 400 V]			
Pollution degree	[Line to 3]			
Rated impulse voltage	[Line to 6KV]			

Working voltage acc.to UL/CSA 600V/600V

Material Polycarbonate

Insulation resistance $\geq 10^{10} \Omega$

Flammability acc.to(UL94) VO

Limiting temperatures -40°C~ +125°C

Mechanical working life(mating cycles) ≥ 500

Contacts

Material copper alloy

Surface Silver plated

Contact resistance Power area $\leq 3m\Omega$
Signal area $\leq 1m\Omega$

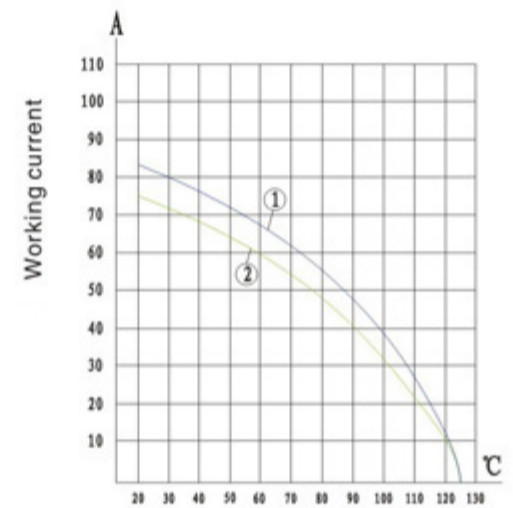
Terminal Screw terminal

Wire gauge Power area 1.5-16mm²(AWG16-6)
Signal area 0.5-2.5mm²(AWG20-14)
Signal area 0.5Nm
Power area

Screw terminal tightening

mm ²	1.5	2.5	4	6	10	16
N.m	1.2	2	3	3	3	3

Control and test procedures according to DIN EN 60512-5



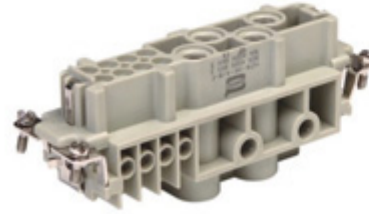
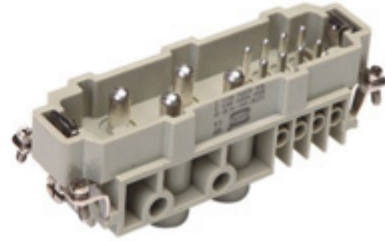
Ambient temperature
 1 wire gauge:16mm²
 2 wire gauge:10mm²

Hzw-HK

Insert 400/400V 80/16A

Number of contacts

4/8 + ⊕



TYPE
Part number
Hoods/Housings

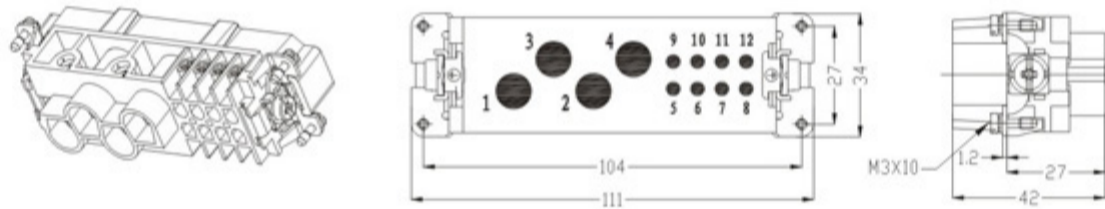
HZW-HK-4/8-M
61 209 408 801
Size HZW-H24B

HZW-HK-4/8-F
61 209 408 802
Size HZW-H24B

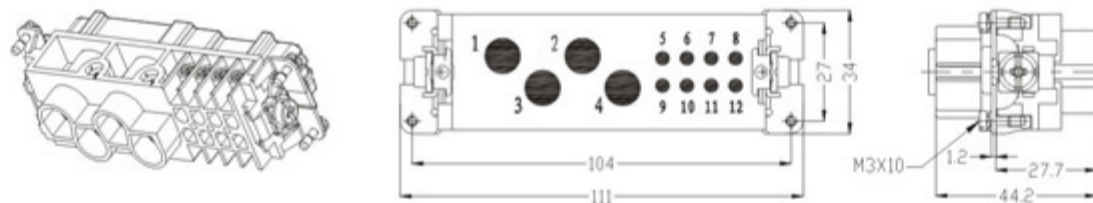
HK

Drawing (Dimensions in mm)

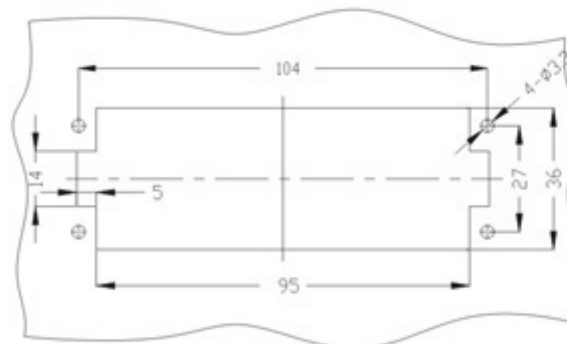
Male insert (M)



Female insert (F)



Panel cut out



Note: Suit hood/housings:Size H24B
Hood/Housing detail on "Hood/Housing" section

HK

Technical characteristics



HK

Current carrying capacity

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

Specifications DIN EN 60 664
DIN EN 61 984

Inserts

Number of contacts 8/24+PE

Power area	16 A	230 V/400V	3	4KV
Working current	_____			
Working voltage	_____			
Pollution degree	_____			
Rated impulse voltage	_____			

Pollution degree 2 also 10A 250V 2 4KV

Signal area	10 A	160 V	3	2.5KV
Working current	_____			
Working voltage	_____			
Pollution degree	_____			
Rated impulse voltage	_____			

Working voltage acc.to UL/CSA 600V/300V

Material Polycarbonate

Insulation resistance $\geq 10^{10} \Omega$

Flammability acc.to(UL94) VO

Limiting temperatures -40°C~ +125°C

Mechanical working life(mating cycles) ≥ 500

Contacts

Material copper alloy

Surface Gold plated

Silver plated

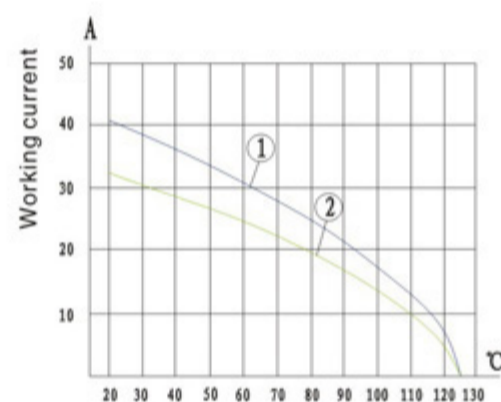
Contact resistance $\leq 1m\Omega/3m\Omega$

Terminal Crimp terminal

Wire gauge 0.5-4.0mm²/0.14-2.5mm²

AWG20-12/26-14

Control and test procedures according to DIN EN 60512-5



Ambient temperature
 1 wire gauge:4.0mm²
 2 wire gauge:2.5mm²

Hzw-HK

Insert 400/100V 16/10A

Number of contacts

8/24 +



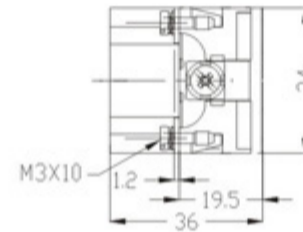
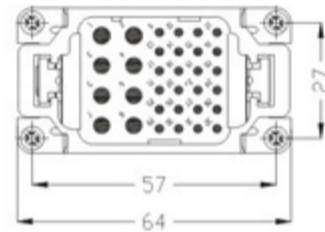
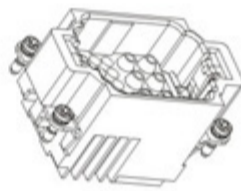
TYPE
Part number
Hoods/Housings

HZW-HK-8/24-MC
61 209 824 241
Size HZW-H10B

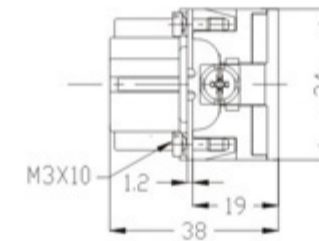
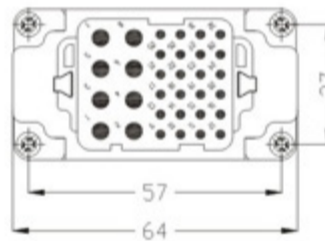
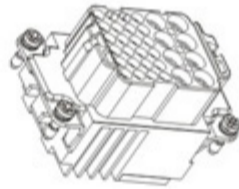
HZW-HK-8/24-FC
61 209 824 242
Size HZW-H10B

Drawing (Dimensions in mm)

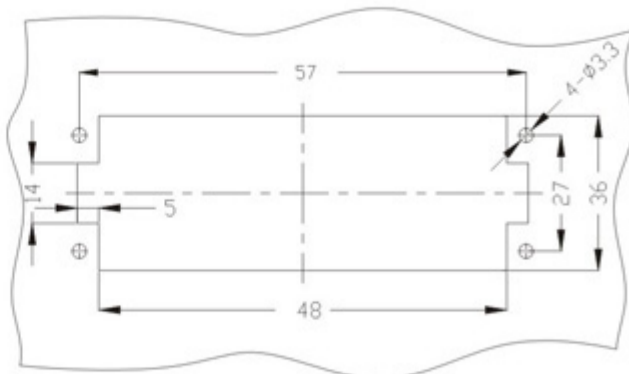
Male insert (MC)



Female insert (FC)



Panel cut out



Crimp contacts	Wire gauge	D	Stripping length
Gold plated	0.14-0.37mm ²	AWG 26-22	0.90mm
	0.5mm ²	AWG 20	1.10mm
	0.75mm ²	AWG 18	1.30mm
Silver plated	1.0mm ²	AWG 18	1.45mm
	1.5mm ²	AWG 16	1.75mm
	2.5mm ²	AWG 14	2.25mm
	3.0mm ²	AWG 12	2.55mm
	4.0mm ²	AWG 12	2.85mm



Crimp contacts	Wire gauge	D	Stripping length
Gold plated	0.14-0.37mm ²	AWG 26-22	0.90mm
	0.5mm ²	AWG 20	1.10mm
	0.75mm ²	AWG 18	1.30mm
Silver plated	1.0mm ²	AWG 18	1.45mm
	1.5mm ²	AWG 16	1.75mm
	2.5mm ²	AWG 14	2.25mm

Note: Suit hood/housings:Size H10B
Hood/Housing detail on "Hood/Housing" section

Note: 10/16A Crimp contact pins should order separately,
please refer to page 111