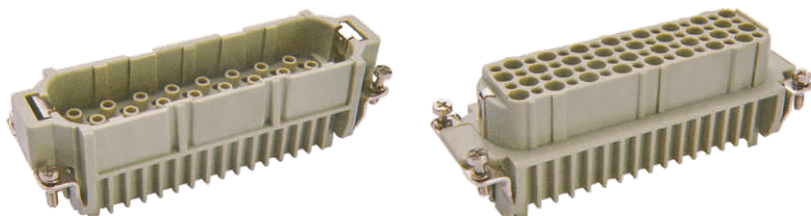


# HD | Technical characteristics



## Current carrying capacity

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

DIN IEC 60512-5 Control and test procedures according to DIN IEC 60512-5

## Specifications

Inserts  
Number of contacts

DIN EN 60 664  
DIN EN 61 984  
7, 15, 25, 40, 50, 64, 80, 128,  
50(2x25), 80(2x40),  
128(2x64)+PE

Working current  
(See current carrying capacity)

Working voltage

Rated impulse voltage

Pollution degree

Pollution degree 2 also

Insulation resistance

Material

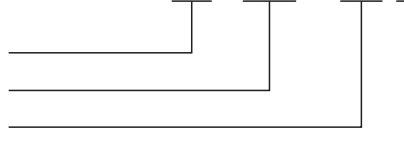
Flammability acc.to(UL94)

Limiting temperatures

Mechanical working life (mating cycles)

Working voltage acc.to UL/CSA

10A 250V 4 KV 3



10 A 230/400V 4KV 2

$\geq 10^{10} \Omega$

Polycarbonate

VO

-40°C ~ +125°C

$\geq 500$

600V

## Contacts

Material

Surface

Contact resistance

Terminal

Wire gauge

Copper alloy

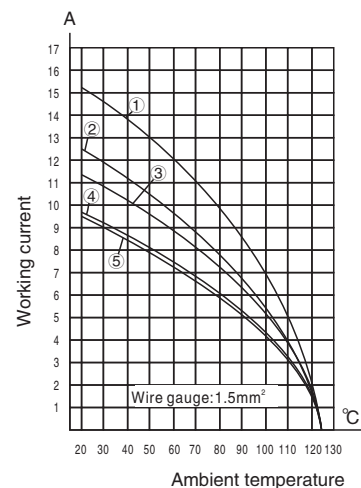
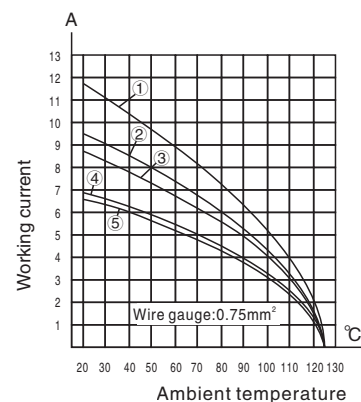
Gold plated

Silver plated

$\leq 3m \Omega$

Crimp terminal

0.14-2.5mm<sup>2</sup>(AWG26-14)



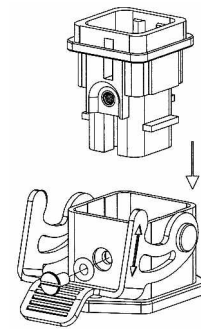
- ① SO-HD-007
- ② SO-HD-015
- ③ SO-HD-025
- ④ SO-HD-040
- ⑤ SO-HD-064

## SO-HD

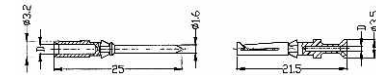
Number of contacts

7 +

Insert 250V 10A



Mounting example



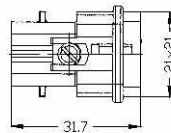
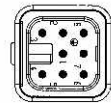
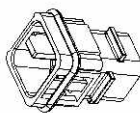
TYPE

SO-HD-007-MC

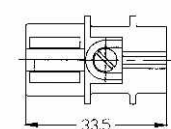
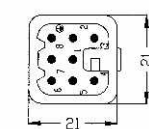
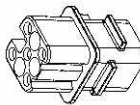
SO-HD-007-FC

Drawing(Dimensions in mm)

Male insert (MC)



Female insert (FC)



Crimp contacts	Wire gauge		D	Stripping length
Gold plated	0.14-0.37mm <sup>2</sup>	AWG 26-22	0.90mm	8mm
	0.5mm <sup>2</sup>	AWG 20	1.10mm	8mm
Silver plated	0.75mm <sup>2</sup>	AWG 18	1.30mm	8mm
	1.0mm <sup>2</sup>	AWG 18	1.45mm	8mm
	1.5mm <sup>2</sup>	AWG 16	1.75mm	8mm
	2.5mm <sup>2</sup>	AWG 14	2.25mm	6mm

Note: Crimp termina of 10A should order contacts pins separately,detail please refer to page 70

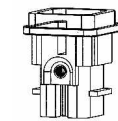
HD

## SO-HD

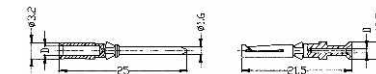
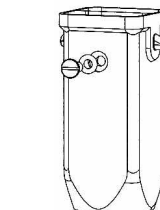
Number of contacts

8

Insert -120V/~50V 10A



Mounting example



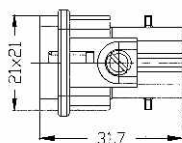
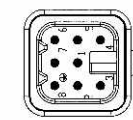
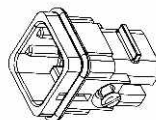
TYPE

SO-HD-008-MC

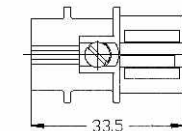
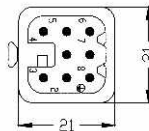
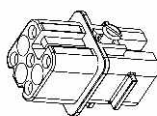
SO-HD-008-FC

Drawing(Dimensions in mm)

Male insert (MC)



Female insert (FC)



Crimp contacts	Wire gauge		D	Stripping length
Gold plated	0.14-0.37mm <sup>2</sup>	AWG 26-22	0.90mm	8mm
	0.5mm <sup>2</sup>	AWG 20	1.10mm	8mm
Silver plated	0.75mm <sup>2</sup>	AWG 18	1.30mm	8mm
	1.0mm <sup>2</sup>	AWG 18	1.45mm	8mm
	1.5mm <sup>2</sup>	AWG 16	1.75mm	8mm
	2.5mm <sup>2</sup>	AWG 14	2.25mm	6mm

Note: Crimp termina of 10A should order contacts pins separately,detail please refer to page 70

Note: Suit hood/housing: Size H3A

Hood/Housing detail on "Hood/Housing" section

# SO-HD

Number of contacts

Insert 250V 10A

## 15,25,40,64 + $\oplus$



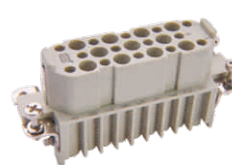
SO-HD-015-MC



SO-HD-015-FC

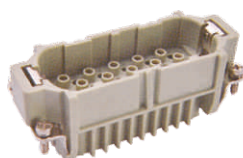


SO-HD-025-MC

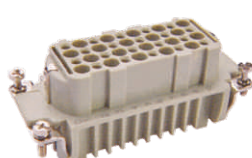


SO-HD-025-FC

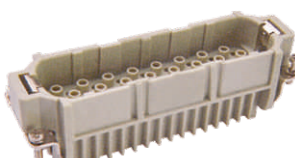
TYPE



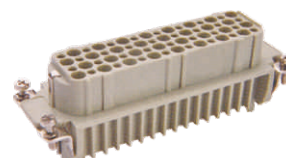
SO-HD-040-MC



SO-HD-040-FC



SO-HD-064-MC



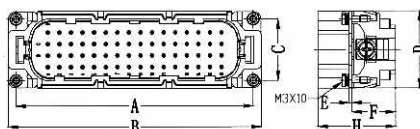
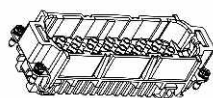
SO-HD-064-FC

TYPE

### HD

Drawing(Dimensions in mm)

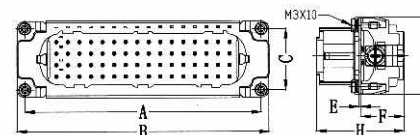
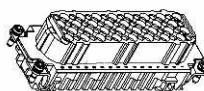
Male insert (MC)



Male insert(M)

number of contacts	A	B	C	D	E	F	H
SO-HD-015	49.5	56.5	16	22.8	1	14	33
SO-HD-025	66	73	16	22.8	1.2	14.8	34
SO-HD-040	77.5	84.5	27	34	1.2	19	34
SO-HD-064	104	111	27	34	1.2	19	36

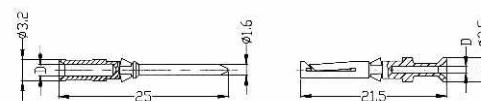
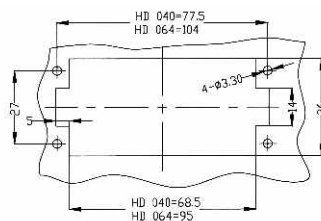
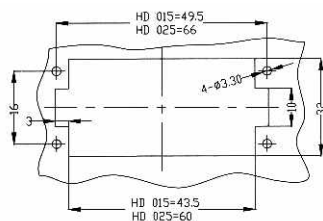
Female insert (FC)



Female insert(F)

number of contacts	A	B	C	D	E	F	H
SO-HD-015	49.5	56.5	16	22.8	1	4.5	33.2
SO-HD-025	66	73	16	22.8	1	5.5	34
SO-HD-040	77.5	84.5	27	34	1.2	6.8	37.2
SO-HD-064	104	111	27	34	1.2	9	38.5

Panel cut out for inserts  
for use without hoods/housings



Crimp contacts	Wire gauge	D	Stripping length
Gold plated	0.14-0.37mm <sup>2</sup> AWG 26-22	0.90mm	8mm
	0.5mm <sup>2</sup> AWG 20	1.10mm	8mm
Silver plated	0.75mm <sup>2</sup> AWG 18	1.30mm	8mm
	1.0mm <sup>2</sup> AWG 18	1.45mm	8mm
	1.5mm <sup>2</sup> AWG 16	1.75mm	8mm
	2.5mm <sup>2</sup> AWG 14	2.25mm	6mm

Note: Suit hood/housing: Size H10A,H16A,

H16B,H24B

Hood/Housing detail on "Hood/Housing" section

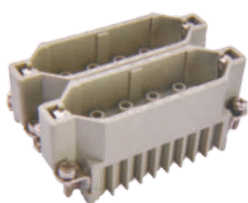
Note: Crimp termina of 10A should order contacts pins separately,detail please refer to page 70

# SO-HD

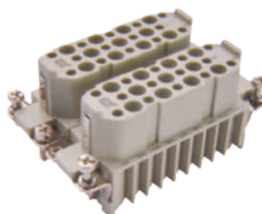
Number of contacts

Insert 250V 10A

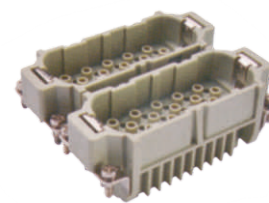
## 50,80,128 + $\oplus$



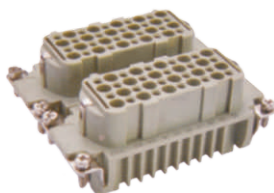
SO-HD-050-MC



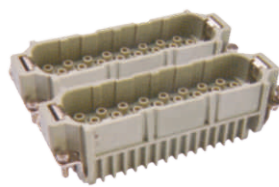
SO-HD-050-FC



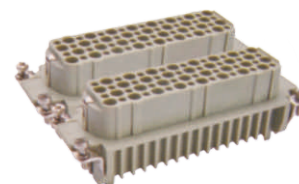
SO-HD-080-MC



SO-HD-080-FC



SO-HD-128-MC



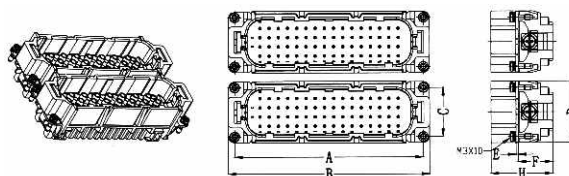
SO-HD-128-FC

TYPE

TYPE

Drawing(Dimensions in mm)

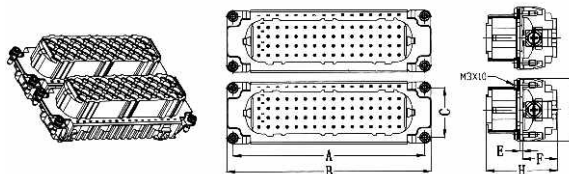
Male insert (MC)



Male insert(M)

number of contacts	A	B	C	D	E	F	H
SO-HD-050	66	73	16	22.8	1	14.8	34
SO-HD-080	77.5	84.5	27	34	1.2	19	37
SO-HD-128	104	111	27	34	1.2	19	36

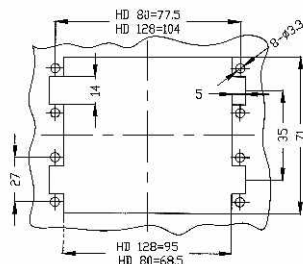
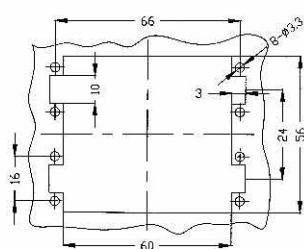
Female insert (FC)



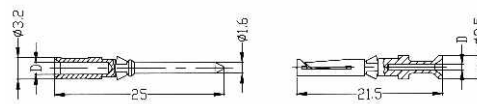
Female insert(F)

number of contacts	A	B	C	D	E	F	H
SO-HD-080	66	73	16	2.8	1	15.5	34
SO-HD-080	77.5	84.5	27	34	1.2	16.8	37.2
SO-HD-128	104	111	27	34	1.2	19	38.5

Panel cut out for inserts  
for use without hoods/housings



Note: Suit hood/housing: Size H32A,H32B ,H48B  
Hood/Housing detail on "Hood/Housing" section



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

Note: Crimp termina of 10A should order contacts pins separately,detail please refer to page 70