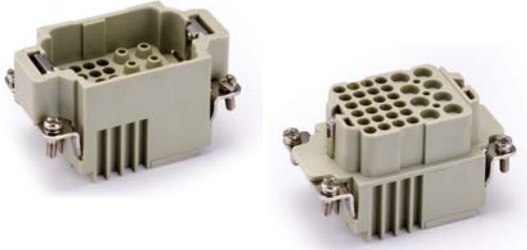


HK SERIES

Combination connector



HK-008/24 Combination inserts



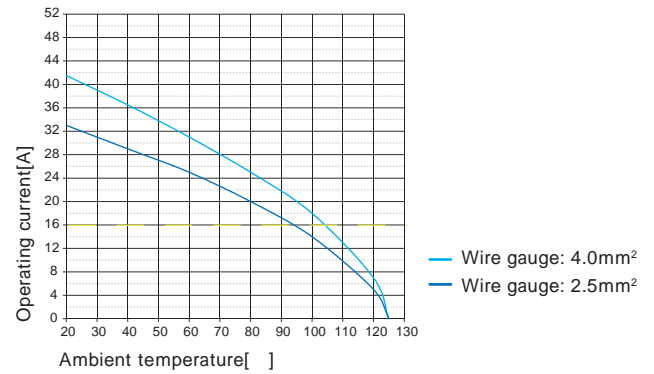
Technical characteristics

| | |
|---|--|
| Specifications | DIN EN 60 664 DIN EN 61 984 |
| Approvals | |
| Inserts | |
| Number of contacts | 8/24+PE |
| Electrical data acc. to EN 61 984 | |
| Power area | |
| - Rated current | 16A |
| - Rated voltage conductor | 400V |
| - Rated impulse voltage | 6kV |
| - Pollution degree | 3 |
| Signal area | |
| - Rated current | 10A |
| - Rated voltage | 250V |
| - Rated impulse voltage | 4kV |
| - Pollution degree | 3 |
| Rated voltage acc. to UL | 600/300V |
| Insulation resistance | 10 ¹⁰ |
| Material | polycarbonate |
| Limiting temperatures | -40 ...+125 |
| Flammability acc. to UL 94 | V0 |
| Mechanical working life (mating cycles) | 500 |
| Contacts | |
| Power contacts | |
| - Material | copper alloy |
| - Surface | hard - silver plated hard - gold plated |
| - Contact resistance | 1m |
| - Crimp terminal | |
| - mm ² | 0.5 - 4mm ² |
| - AWG | 20 - 12 |
| Signal contacts | |
| - Material | copper alloy |
| - Surface | hard - silver plated hard - gold plated |
| - Contact resistance | 3m |
| - Crimp terminal | |
| - mm ² | 0.14 - 2.5mm ² |
| - AWG | 25 - 14 |

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



HK-008/24 Combination inserts

400/250V 16/10A 8/24+⊕



Inserts

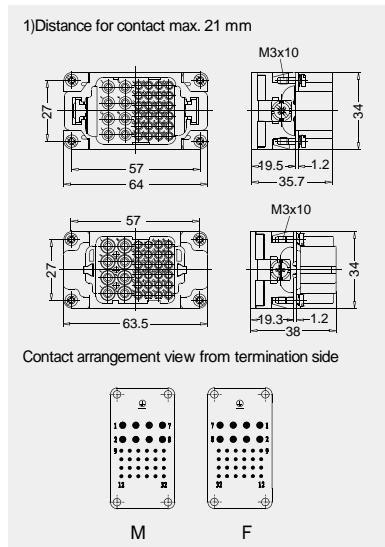
Hoods/Housings: size 10B, please find the details on page 15-39~15-69.

Crimp terminal

Order crimp contacts separately



| Insert | Designation | Order No. |
|--------|-----------------|------------------|
| Male | HK -008/24 - MC | 128 032 010 0001 |
| Female | HK -008/24 - FC | 128 032 020 0001 |



Crimp contacts

Crimp contacts 10A

silver plated

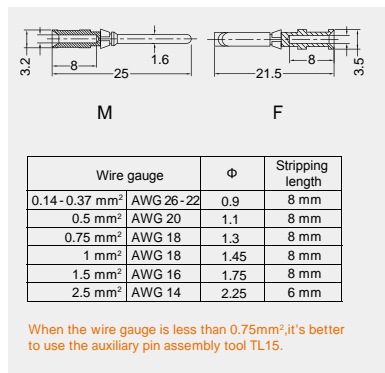


gold plated



More crimp contacts 10A see P13 - 02, P13 - 02.

| Male | Designation | Female | Designation |
|------------|------------------|------------|------------------|
| CDSM -0.25 | 101 017 110 0101 | CDSF -0.25 | 101 017 120 0101 |
| CDSM -0.37 | 101 017 110 0301 | CDSF -0.37 | 101 017 120 0301 |
| CDSM -0.50 | 101 017 110 0401 | CDSF -0.50 | 101 017 120 0401 |
| CDSM -0.75 | 101 017 110 0601 | CDSF -0.75 | 101 017 120 0601 |
| CDSM -1.0 | 101 017 110 0801 | CDSF -1.0 | 101 017 120 0801 |
| CDSM -1.5 | 101 017 110 0901 | CDSF -1.5 | 101 017 120 0901 |
| CDSM -2.5 | 101 017 110 1001 | CDSF -2.5 | 101 017 120 1001 |
| CDGM -0.25 | 101 017 210 0101 | CDGF -0.25 | 101 017 220 0101 |
| CDGM -0.37 | 101 017 210 0301 | CDGF -0.37 | 101 017 220 0301 |
| CDGM -0.50 | 101 017 210 0401 | CDGF -0.50 | 101 017 220 0401 |
| CDGM -0.75 | 101 017 210 0601 | CDGF -0.75 | 101 017 220 0601 |
| CDGM -1.0 | 101 017 210 0801 | CDGF -1.0 | 101 017 220 0801 |
| CDGM -1.5 | 101 017 210 0901 | CDGF -1.5 | 101 017 220 0901 |
| CDGM -2.5 | 101 017 210 1001 | CDGF -2.5 | 101 017 220 1001 |



Crimp contacts 16A

silver plated

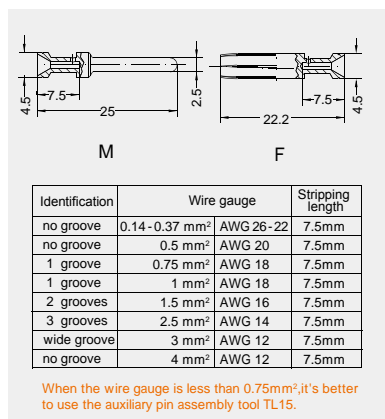


gold plated



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

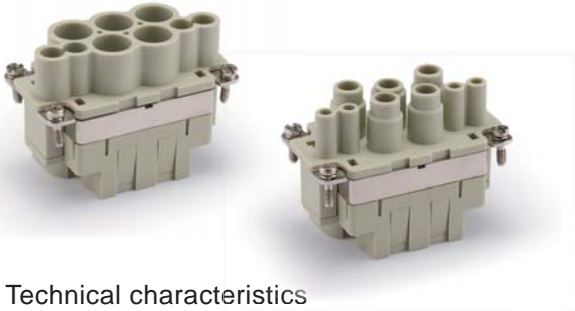


For the crimping contacts and removing contacts instructions, please find the page 06-23-06-24.

| Wire gauge | Designation | Order No. |
|---|-------------|------------------|
| 0.14 - 4mm ² | TL02G | 198 001 001 0011 |
| Wire gauge: 16A crimp contacts 0.14 - 0.37mm ² please select TL02 crimping tool. | | |
| Application | Designation | Order No. |
| for 10A crimp contacts | TL00 | 198 001 000 0001 |
| 16A contact removal tool: cross - slotted screw driver(size 0 acc. to DIN 5260). | | |

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

HK - 004/4 Combination crimp inserts



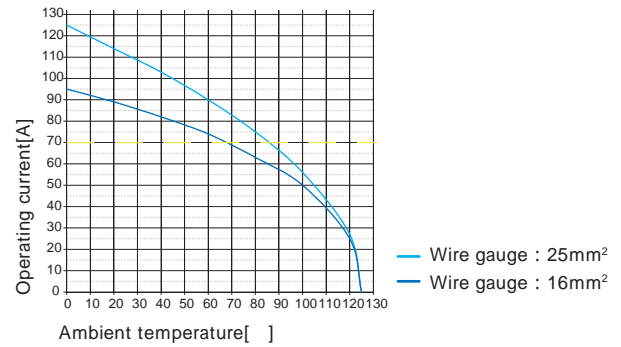
Technical characteristics

| | |
|---|--------------------------------|
| Specifications | DIN EN 60 664 DIN EN 61 984 |
| Approvals | C E RE |
| Inserts | |
| Number of contacts | 4/4+PE |
| Electrical data acc. to EN 61 984 | |
| Power area | |
| - Rated current | 70A |
| - Rated voltage | 690V |
| - Rated impulse voltage | 8kV |
| - Pollution degree | 3 |
| Signal area | |
| - Rated current | 16A |
| - Rated voltage | 250V |
| - Rated impulse voltage | 4kV |
| - Pollution degree | 3 |
| Rated voltage acc. to UL | 600/230V |
| Insulation resistance | 10 ¹⁰ |
| Material | polycarbonate |
| Limiting temperatures | -40 ...+125 |
| Flammability acc. to UL 94 | V0 |
| Mechanical working life (mating cycles) | 500 |
| Contacts | |
| Power contacts | |
| - Material | copper alloy |
| - Surface | hard - silver plated |
| - Contact resistance | 0.5m |
| - Crimp terminal | |
| - wire gauge | 10 - 25mm ² |
| - Max. insulation diameter | 11mm |
| Stripping length | 15.5mm |
| Signal contacts | |
| - Material | copper alloy |
| - Surface | hard - silver plated |
| - Contact resistance | 1m |
| - Crimp terminal | |
| - mm ² | 0.14 - 4mm ² |
| - AWG | 26 - 12 |

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



HK - 004/4 Combination crimp inserts

690/250V 70/16A 4/4+

CE

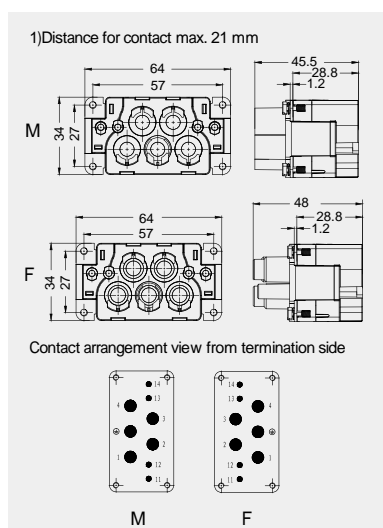
Inserts

Hoods/Housings: size 10B, please find the details on page 15-39-15-69.

Crimp terminal Order crimp contacts separately



| Insert | Designation | Order No. |
|--------|-----------------|------------------|
| Male | HK - 004/4 - MC | 128 008 010 0001 |
| Female | HK - 004/4 - FC | 128 008 020 0001 |



Crimp contacts

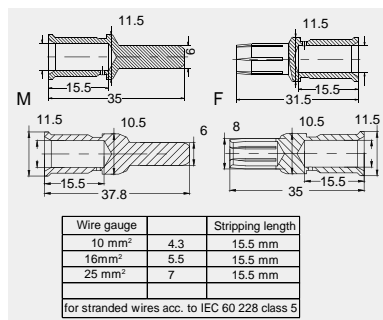
Crimp contacts 70A

silver plated
Contact resistance 0.5m



PE Contact

| Male | Order No. | Female | Order No. |
|-------------|------------------|-------------|------------------|
| CKSM70-10 | 101 034 110 1401 | CKSF70-10 | 101 034 120 1403 |
| CKSM70-16 | 101 034 110 1501 | CKSF70-16 | 101 034 120 1503 |
| CKSM70-25 | 101 034 110 1601 | CKSF70-25 | 101 034 120 1603 |
| CKSM70PE-10 | 101 034 110 1404 | CKSF70PE-10 | 101 034 120 1404 |
| CKSM70PE-16 | 101 034 110 1504 | CKSF70PE-16 | 101 034 120 1504 |
| CKSM70PE-25 | 101 034 110 1604 | CKSF70PE-25 | 101 034 120 1604 |

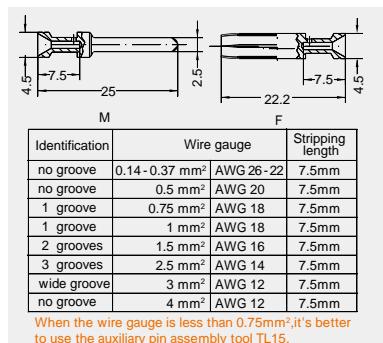


Crimp contacts 16A

silver plated
Contact resistance 1m



| 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 |



More crimp contacts 16A see P13 - 04.

Tools

Manual hydraulic clamp



Crimping tool



Contact removal tool



| Wire gauge | Designation | Order No. |
|-------------------------|-------------|------------------|
| 10 - 240mm ² | TL05 | 198 001 001 0005 |
| 0.5 - 4mm ² | TL02G | 198 001 001 0011 |

Wire gauge: 16A crimp contacts 0.14 - 0.37mm² please select TL02 crimping tool.

| Application | Designation | Order No. |
|------------------------|-------------|------------------|
| for crimp contacts 70A | TL12 | 198 001 000 0024 |
| for crimp contacts 16A | TL01 | 198 001 000 0002 |

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


HK-004/4 Combination inserts



Technical characteristics

| | |
|--|--------------------------------|
| Specifications | DIN EN 60 664 DIN EN 61 984 |
| Approvals | |
| Inserts | |
| Number of contacts | 4/4+PE |
| Electrical data acc. to EN 61 984 | |
| Power area | |
| - Rated current | 63A |
| - Rated voltage | 690V |
| - Rated impulse voltage | 8kV |
| - Pollution degree | 3 |
| Signal area | |
| - Rated current | 16A |
| - Rated voltage | 250V |
| - Rated impulse voltage | 4kV |
| - Pollution degree | 3 |
| Rated voltage acc. to UL | 600/230V |
| Insulation resistance | 10 ¹⁰ |
| Material | polycarbonate |
| Limiting temperatures | -40 ...+125 |
| Flammability acc. to UL 94 | V0 |
| Mechanical working life(mating cycles) | 500 |
| Contacts | |
| Power contacts | |
| - Material | copper alloy |
| - Surface | hard - silver plated |
| - Contact resistance | 0.5m |
| - Screw terminal | |
| - geometric wire gauge | 6 - 16mm ² |
| - AWG | 10 - 6 |
| - Max. insulation diameter | 11mm |
| - Stripping length | 11mm |
| Signal contacts | |
| - Material | copper alloy |
| - Surface | hard - silver plated |
| - Contact resistance | 3m |
| - Spring terminal | |
| - mm ² | 0.14 - 2.5mm ² |
| - AWG | 26 - 14 |
| - Stripping length | 7 - 9mm |

HK-004/4 Combination inserts

690/250V 63/16A 4/4+ 

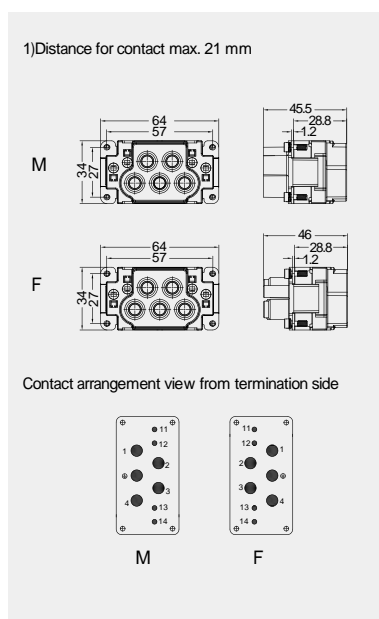
Inserts

Hoods/Housings: only suitable for size 10B high structure shells, please find the details on page 15-39~15-69.

Screw terminal



| Insert | Designation | Order No. |
|--------|---|------------------|
| Male | HK - 004/4.1 - M(6 - 16mm ²) | 128 008 011 0002 |
| | HK - 004/4.2 - M(14 - 22mm ²) | 128 008 011 0003 |
| Female | HK - 004/4.1 - F(6 - 16mm ²) | 128 008 021 0002 |
| | HK - 004/4.2 - F(14 - 22mm ²) | 128 008 021 0003 |



HK-004/0,004/2 Combination inserts



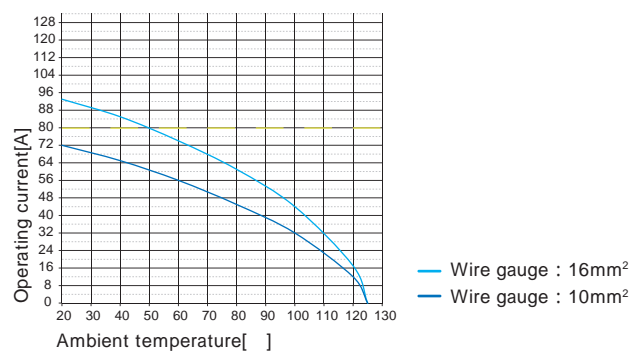
Technical characteristics

| | |
|--|--------------------------------|
| Specifications | DIN EN 60 664 DIN EN 61 984 |
| Approvals | |
| Inserts | |
| Number of contacts | 4/0+PE,4/2+PE |
| Electrical data acc. to EN 61 984 | |
| Power area | |
| - Rated current | 80A |
| - Rated voltage | 830V |
| - Rated impulse voltage | 8kV |
| - Pollution degree | 3 |
| - Pollution degree 2 also | 80A 1000V 8kV 2 |
| Signal area | |
| - Rated current | 16A |
| - Rated voltage | 400V |
| - Rated impulse voltage | 6kV |
| - Pollution degree | 3 |
| - Pollution degree 2 also | 16A 400/690V 6kV 2 |
| Rated voltage acc. to UL | 600/300V |
| Insulation resistance | 10 ¹⁰ |
| Material | polycarbonate |
| Limiting temperatures | -40 ...+125 |
| Flammability acc. to UL 94 | V0 |
| Mechanical working life(mating cycles) | 500 |
| Contacts | |
| Power contacts | |
| - Material | copper alloy |
| - Surface | hard - silver plated |
| - Contact resistance | 0.3m |
| - Screw terminal | |
| - geometric wire gauge | 1.5 - 16mm ² |
| - AWG | 16 - 6 |
| - Tightening torque | |
| - mm ² | 1.5 2.5 4 6 10 16 |
| - N.m | 1.2 2 3 3 3 3 |
| - Stripping length | 14mm |
| Signal contacts | |
| - Material | copper alloy |
| - Surface | hard - silver plated |
| - Contact resistance | 1m |
| - Screw terminal | |
| - mm ² | 0.5 - 2.5mm ² |
| - AWG | 20 - 14 |
| - Tightening torque | 0.5Nm |
| - 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



HK-004/0,004/2 Combination inserts

830/400V 80/16A 4/0,4/2+ ⊕



Inserts

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

Screw terminal



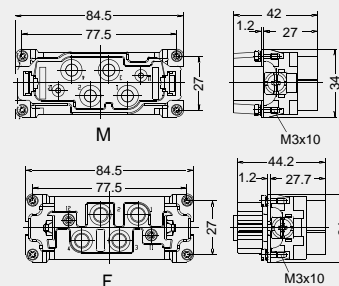
| Insert | Designation | Order No. |
|--------|----------------|------------------|
| Male | HK - 004/0 - M | 128 004 011 0001 |
| Female | HK - 004/0 - F | 128 004 021 0001 |

Screw terminal

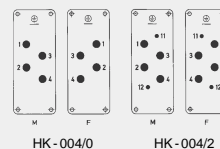


| Insert | Designation | Order No. |
|--------|----------------|------------------|
| Male | HK - 004/2 - M | 128 006 011 0001 |
| Female | HK - 004/2 - F | 128 006 021 0001 |

1) Distance for contact max. 21 mm



Contact arrangement view from termination side



HK-004/8 Combination inserts



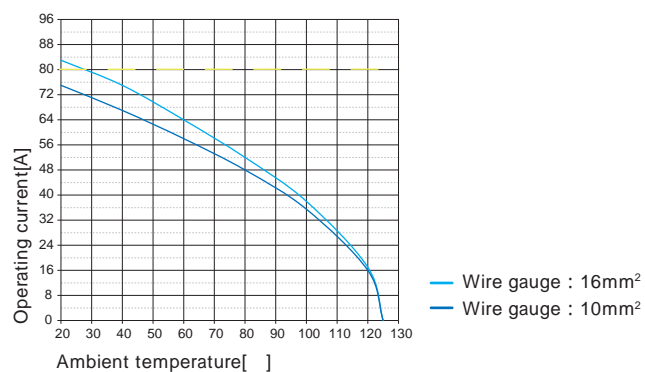
Technical characteristics

| | |
|--|--------------------------------|
| Specifications | DIN EN 60 664 DIN EN 61 984 |
| Approvals | |
| Inserts | |
| Number of contacts | 4/8+PE |
| Electrical data acc. to EN 61 984 | |
| Power area | |
| - Rated current | 80A |
| - Rated voltage | 830V |
| - Rated impulse voltage | 8kV |
| - Pollution degree | 3 |
| Signal area | |
| - Rated current | 16A |
| - Rated voltage | 400V |
| - Rated impulse voltage | 6kV |
| - Pollution degree | 3 |
| Rated voltage acc. to UL | 600/600V |
| Insulation resistance | 10 ¹⁰ |
| Material | polycarbonate |
| Limiting temperatures | -40 ...+125 |
| Flammability acc. to UL 94 | V0 |
| Mechanical working life(mating cycles) | 500 |
| Contacts | |
| Power contacts | |
| - Material | copper alloy |
| - Surface | hard - silver plated |
| - Contact resistance | 0.3m |
| - Screw terminal | |
| - geometric wire gauge | 1.5 - 16mm ² |
| - AWG | 16 - 6 |
| - Tightening torque | |
| - mm ² | 1.5 2.5 4 6 10 16 |
| - N.m | 1.2 2 3 3 3 3 |
| - Stripping length | 14mm |
| Signal contacts | |
| - Material | copper alloy |
| - Surface | hard - silver plated |
| - Contact resistance | 1m |
| - Screw terminal | |
| - mm ² | 0.5 - 2.5mm ² |
| - AWG | 20 - 14 |
| - Tightening torque | 0.5Nm |
| - 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



HK-004/8 Combination inserts

830/400V 80/16A 4/8+⊕



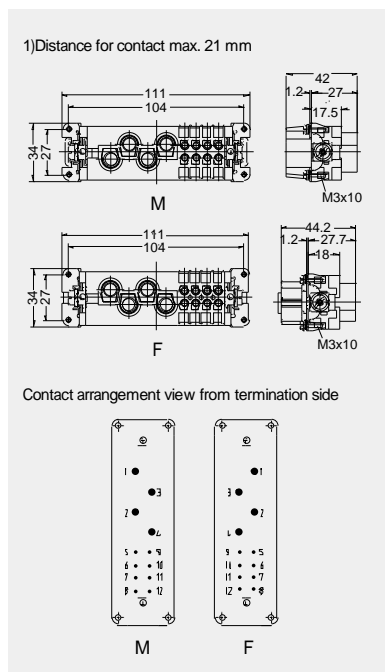
Inserts

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

Screw terminal



| Insert | Designation | Order No. |
|--------|----------------|------------------|
| Male | HK - 004/8 - M | 128 012 011 0001 |
| Female | HK - 004/8 - F | 128 012 021 0001 |



HWK-006/6 Combination inserts



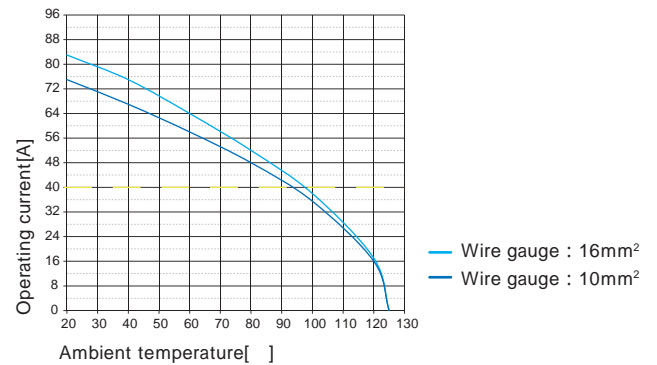
Technical characteristics

| | |
|--|--------------------------------|
| Technical characteristics | DIN EN 60 664 DIN EN 61 984 |
| Approvals | C€ ERE |
| Inserts | |
| Number of contacts | 6/6+PE |
| Electrical data acc. to EN 61 984 | |
| Power area | |
| - Rated current | 40A |
| - Rated voltage | 690V |
| - Rated impulse voltage | 8kV |
| - Pollution degree | 3 |
| Signal area | |
| - Rated current | 16A |
| - Rated voltage | 400V |
| - Rated impulse voltage | 6kV |
| - Pollution degree | 3 |
| Rated voltage acc. to UL | 600/600V |
| Insulation resistanc | 10 ¹⁰ |
| Material | polycarbonate |
| Limiting temperatures | -40 ...+125 |
| Flammability acc. to UL 94 | V0 |
| Mechanical working life(mating cycles) | 500 |
| Contacts | |
| Material | copper alloy |
| Surface | hard - silver plated |
| Terminal | screw terminal |
| Contact resistance | |
| - power area | 1m |
| - signal area | 1m |
| Wire gauge | |
| - power area | |
| - mm ² | 4 - 10mm ² |
| - AWG | 12 - 8 |
| - signal area | |
| - mm ² | 1 - 2.5mm ² |
| - AWG | 18 - 4 |
| Tightening torque | |
| - power area | mm ² 1.5 2.5 4 6 10 |
| | N.m 1.2 2 3 3 3 |
| - signal area | 0.5N.m |


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



HWK-006/6 Combination inserts

690/400V 40/16A 6/6+ 

Ce ENEC

Inserts

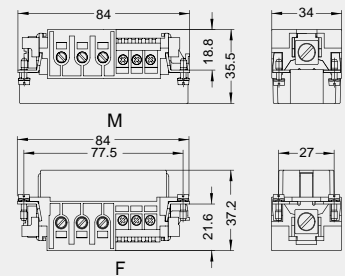
Hoods/Housings: size 16B, please find the details on page 15-70-15-107.

Screw terminal

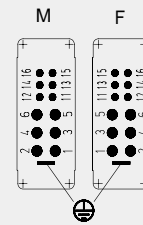


| Insert | Designation | Order No. |
|--------|---------------|------------------|
| Male | HWK-006/6 - M | 128 012 011 0201 |
| Female | HWK-006/6 - F | 128 012 021 0201 |

1) Distance for contact max. 21 mm



Contact arrangement view from termination side



HK-006/12 Combination inserts



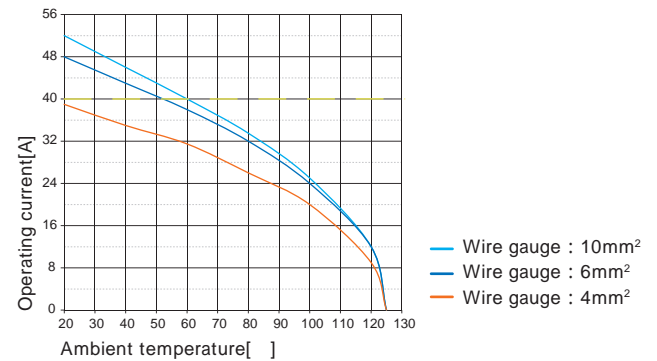
Technical characteristics

| | |
|--|---|
| Specifications | DIN EN 60 664 DIN EN 61 984 |
| Approvals | |
| Inserts | |
| Number of contacts | 6/12+PE |
| Electrical data acc. to EN 61 984 | |
| Power area | |
| Rated current | 40A |
| Rated voltage | 690V |
| Rated impulse voltage | 6kV |
| Pollution degree | 3 |
| Signal area | |
| Rated current | 10A |
| Rated voltage conductor | 230/400V |
| Rated impulse voltage | 4kV |
| Pollution degree | 3 |
| Rated voltage acc. to UL | 600/300V |
| Insulation resistance | 10 ¹⁰ |
| Material | polycarbonate |
| Limiting temperatures | -40 ...+125 |
| Flammability acc. to UL 94 | V0 |
| Mechanical working life(mating cycles) | 500 |
| Contacts | |
| Power contacts | |
| - Material | copper alloy |
| - Surface | hard - silver plated |
| - Contact resistance | 1m |
| - Axial screw termination | |
| - geometric wire gauge | 2.5 - 10mm ² |
| - AWG | 14 - 8 |
| - Max. insulation diameter | 6.1mm |
| - Tightening torque | |
| - mm ² | 2.5 4 6 10 |
| - Nm | 1.5 1.5 2 2 |
| - Stripping length | |
| - mm ² | 2.5 4 6 10 |
| - mm | 5 ⁺¹ 5 ⁺¹ 8 ⁺¹ 8 ⁺¹ |
| Signal contacts | |
| - Material | copper alloy |
| - Surface | hard - silver plated |
| - Contact resistance | 3m |
| - Screw terminal | |
| - geometric wire gauge | 0.2 - 2.5mm ² |
| - AWG | 24 - 14 |
| - Tightening torque | 0.8Nm |
| - 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



HK-006/12 Combination inserts

690/400V 40/10A 6/12+ 



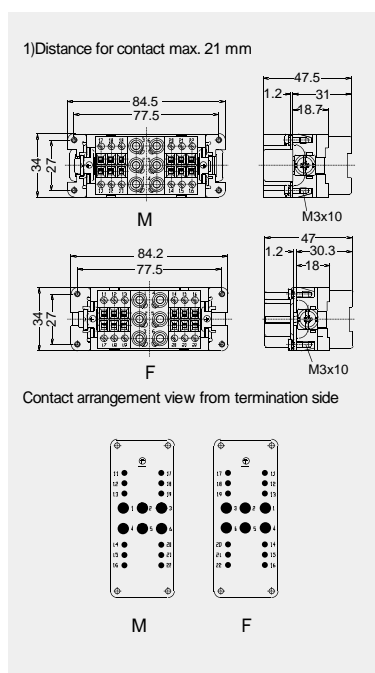
Inserts

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

Axial screw terminal¹⁾/Screw terminal



| Insert | Wire gauge | Designation | Order No. |
|--------|------------------------|--|------------------|
| Male | 2.5 - 8mm ² | HK - 006.1/12 - M(2.5 - 8mm ²) | 128 018 011 0001 |
| | 6 - 10mm ² | HK - 006.2/12 - M(6 - 10mm ²) | 128 018 011 0002 |
| Female | 2.5 - 8mm ² | HK - 006.1/12 - F(2.5 - 8mm ²) | 128 018 021 0001 |
| | 6 - 10mm ² | HK - 006.2/12 - F(6 - 10mm ²) | 128 018 021 0002 |



Accessories

Tool

hexagonal driver



| Description | Designation | Order No. |
|------------------------------|-------------|------------------|
| for axial setscrew with grip | SW - 2* 100 | 198 001 003 0002 |

1) See P00 - 33~00 - 34 for the structural characteristics and description of Axial screw terminal.

HK-006/36 Combination inserts



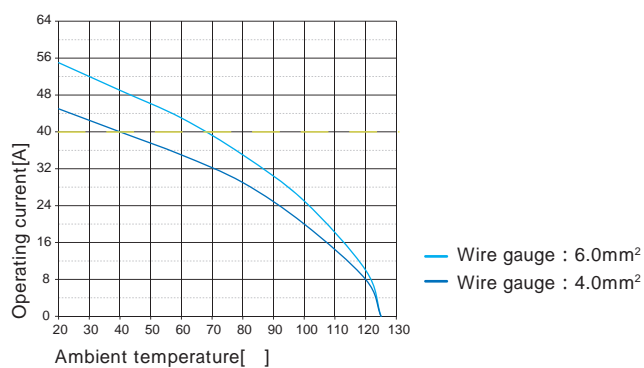
Technical characteristics

| | |
|--|--|
| Specifications | DIN EN 60 664 DIN EN 61 984 |
| Approvals | |
| Inserts | |
| Number of contacts | 6/36+PE |
| Electrical data acc. to EN 61 984 | |
| Power area | |
| - Rated current | 40A |
| - Rated voltage | 690V |
| - Rated impulse voltage | 8kV |
| - Pollution degree | 3 |
| Signal area | |
| - Rated current | 10A |
| - Rated voltage | 160V |
| - Rated impulse voltage | 2.5kV |
| - Pollution degree | 3 |
| - Pollution degree 2 also | 10A 250V 4kV 2 |
| Rated voltage acc. to UL | 600/300V |
| Insulation resistance | 10 ¹⁰ |
| Material | polycarbonate |
| Limiting temperatures | - 40 ...+125 |
| Flammability acc. to UL 94 | V0 |
| Mechanical working life(mating cycles) | 500 |
| Contacts | |
| Power contacts | |
| - Material | copper alloy |
| - Surface | hard - silver plated hard - gold plated |
| - Contact resistance | 1m |
| - Crimp terminal | |
| - mm ² | 1.5 - 6mm ² |
| - AWG | 16 - 10 |
| - Max. insulation diameter | 5mm |
| Signal contacts | |
| - Material | copper alloy |
| - Surface | hard - silver plated hard - gold plated |
| - Contact resistance | 3m |
| - Crimp terminal | |
| - mm ² | 0.14 - 2.5mm ² |
| - AWG | 26 - 14 |

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



HK-006/36 Combination inserts

690/160V 40/10A 6/36+⊕



Inserts

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

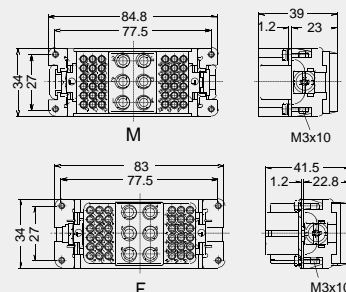
Crimp terminal

Order crimp contacts separately

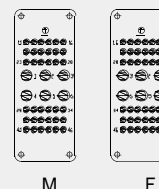


| Insert | Designation | Order No. |
|--------|--------------|------------------|
| Male | HK-006/36-MC | 128 042 010 0001 |
| Female | HK-006/36-FC | 128 042 020 0001 |

1) Distance for contact max. 21 mm



Contact arrangement view from termination side



Crimp contacts

Crimp contacts 10A

silver plated

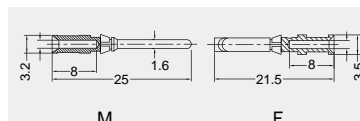


gold plated



More crimp contacts 10A see P13-02, P13-03..

| Male | Designation | Female | Designation |
|-----------|------------------|-----------|------------------|
| CDSM-0.25 | 101 017 110 0101 | CDSF-0.25 | 101 017 120 0101 |
| CDSM-0.37 | 101 017 110 0301 | CDSF-0.37 | 101 017 120 0301 |
| CDSM-0.50 | 101 017 110 0401 | CDSF-0.50 | 101 017 120 0401 |
| CDSM-0.75 | 101 017 110 0601 | CDSF-0.75 | 101 017 120 0601 |
| CDSM-1.0 | 101 017 110 0801 | CDSF-1.0 | 101 017 120 0801 |
| CDSM-1.5 | 101 017 110 0901 | CDSF-1.5 | 101 017 120 0901 |
| CDSM-2.5 | 101 017 110 1001 | CDSF-2.5 | 101 017 120 1001 |
| CDGM-0.25 | 101 017 210 0101 | CDGF-0.25 | 101 017 220 0101 |
| CDGM-0.37 | 101 017 210 0301 | CDGF-0.37 | 101 017 220 0301 |
| CDGM-0.50 | 101 017 210 0401 | CDGF-0.50 | 101 017 220 0401 |
| CDGM-0.75 | 101 017 210 0601 | CDGF-0.75 | 101 017 220 0601 |
| CDGM-1.0 | 101 017 210 0801 | CDGF-1.0 | 101 017 220 0801 |
| CDGM-1.5 | 101 017 210 0901 | CDGF-1.5 | 101 017 220 0901 |
| CDGM-2.5 | 101 017 210 1001 | CDGF-2.5 | 101 017 220 1001 |



| Wire gauge | Φ | Stripping length |
|-------------------------------------|------|------------------|
| 0.14-0.37 mm ² AWG 26-22 | 0.9 | 8 mm |
| 0.5 mm ² AWG 20 | 1.1 | 8 mm |
| 0.75 mm ² AWG 18 | 1.3 | 8 mm |
| 1 mm ² AWG 18 | 1.45 | 8 mm |
| 1.5 mm ² AWG 16 | 1.75 | 8 mm |
| 2.5 mm ² AWG 14 | 2.25 | 6 mm |

When the wire gauge is less than 0.75mm², it's better to use the auxiliary pin assembly tool TL15.

Crimp contacts 40A

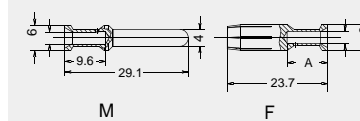
silver plated



gold plated



| Male | Designation | Female | Order No. |
|----------|------------------|----------|------------------|
| CCSM-1.5 | 101 023 110 0901 | CCSF-1.5 | 101 023 120 0901 |
| CCSM-2.5 | 101 023 110 1001 | CCSF-2.5 | 101 023 120 1001 |
| CCSM-4.0 | 101 023 110 1201 | CCSF-4.0 | 101 023 120 1201 |
| CCSM-6.0 | 101 023 110 1301 | CCSF-6.0 | 101 023 120 1301 |
| CCGM-1.5 | 101 023 210 0901 | CCGF-1.5 | 101 023 220 0901 |
| CCGM-2.5 | 101 023 210 1001 | CCGF-2.5 | 101 023 220 1001 |
| CCGM-4.0 | 101 023 210 1201 | CCGF-4.0 | 101 023 220 1201 |
| CCGM-6.0 | 101 023 210 1301 | CCGF-6.0 | 101 023 220 1301 |



| Wire gauge | Φ | Stripping length |
|----------------------------|------|------------------|
| 1.5 mm ² AWG 16 | 1.75 | 9 mm |
| 2.5mm ² AWG 14 | 2.25 | 9 mm |
| 4 mm ² AWG 12 | 2.85 | 9.6 mm |
| 6 mm ² AWG 10 | 3.5 | 9.6 mm |

Tools

Crimping tool



Contact removal tool



| Wire gauge | Designation | Order No. |
|------------------------------------|-------------|------------------|
| 0.14-4mm ² | TL02G | 198 001 001 0011 |
| 1.5-6mm ² | TL02-OG | 198 001 001 0012 |
| Application for crimp contacts 10A | TL00 | 198 001 000 0001 |
| Application for crimp contacts 40A | TL06G | 198 001 000 0009 |

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

HK-012/2 Combination inserts



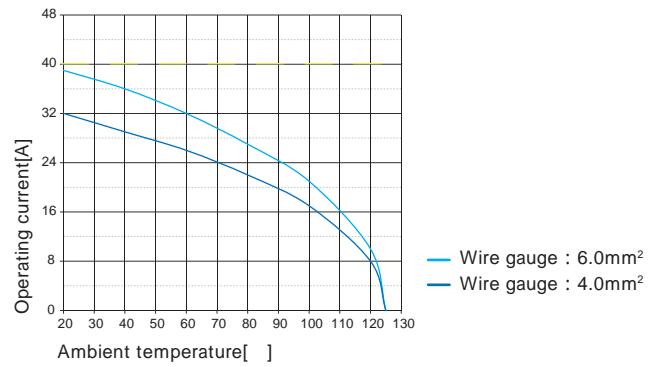
Technical characteristics

| | |
|--|--|
| Specifications | |
| Specifications | DIN EN 60 664 DIN EN 61 984 |
| Approvals | |
| Approvals | |
| Inserts | |
| Number of contacts | 12/2+PE |
| Electrical data acc. to EN 61 984 | |
| Power area | |
| - Rated current | 40A |
| - Rated voltage | 690V |
| - Rated impulse voltage | 8kV |
| - Pollution degree | 3 |
| Signal area | |
| - Rated current | 10A |
| - Rated voltage | 250V |
| - Rated impulse voltage | 4kV |
| - Pollution degree | 3 |
| Rated voltage acc. to UL | 600/300V |
| Insulation resistance | 10 ¹⁰ |
| Material | polycarbonate |
| Limiting temperatures | -40 ...+125 |
| Flammability acc. to UL 94 | V0 |
| Mechanical working life(mating cycles) | 500 |
| Contacts | |
| Power contacts | |
| - Material | copper alloy |
| - Surface | hard - silver plated hard - gold plated |
| - Contact resistance | 1m |
| Crimp terminal | |
| - mm ² | 1.5 - 6mm ² |
| - AWG | 16 - 10 |
| Signal contacts | |
| - Material | copper alloy |
| - Surface | hard - silver plated hard - gold plated |
| - Contact resistance | 3m |
| Crimp terminal | |
| - mm ² | 0.14 - 2.5mm ² |
| - AWG | 26 - 14 |

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



HK-012/2 Combination inserts

690/250V 40/10A 12/2+⊕



Inserts

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

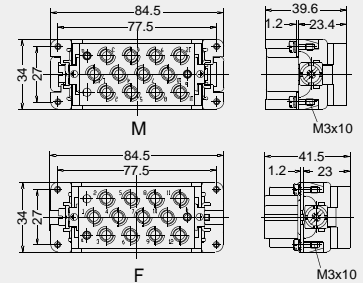
Crimp terminal

Order crimp contacts separately

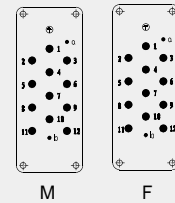


| Insert | Designation | Order No. |
|--------|----------------|------------------|
| Male | HK -012/2 - MC | 128 014 010 0001 |
| Female | HK -012/2 - FC | 128 014 020 0001 |

1) Distance for contact max. 21 mm



Contact arrangement view from termination side



Crimp contacts

Crimp contacts 10A

silver plated

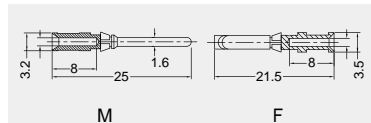


gold plated



More crimp contacts 10A see P13 -02,P13 -03..

| Male | Designation | Female | Designation |
|------------|------------------|------------|------------------|
| CDSM -0.25 | 101 017 110 0101 | CDSF -0.25 | 101 017 120 0101 |
| CDSM -0.37 | 101 017 110 0301 | CDSF -0.37 | 101 017 120 0301 |
| CDSM -0.50 | 101 017 110 0401 | CDSF -0.50 | 101 017 120 0401 |
| CDSM -0.75 | 101 017 110 0601 | CDSF -0.75 | 101 017 120 0601 |
| CDSM -1.0 | 101 017 110 0801 | CDSF -1.0 | 101 017 120 0801 |
| CDSM -1.5 | 101 017 110 0901 | CDSF -1.5 | 101 017 120 0901 |
| CDSM -2.5 | 101 017 110 1001 | CDSF -2.5 | 101 017 120 1001 |
| CDGM -0.25 | 101 017 210 0101 | CDGF -0.25 | 101 017 220 0101 |
| CDGM -0.37 | 101 017 210 0301 | CDGF -0.37 | 101 017 220 0301 |
| CDGM -0.50 | 101 017 210 0401 | CDGF -0.50 | 101 017 220 0401 |
| CDGM -0.75 | 101 017 210 0601 | CDGF -0.75 | 101 017 220 0601 |
| CDGM -1.0 | 101 017 210 0801 | CDGF -1.0 | 101 017 220 0801 |
| CDGM -1.5 | 101 017 210 0901 | CDGF -1.5 | 101 017 220 0901 |
| CDGM -2.5 | 101 017 210 1001 | CDGF -2.5 | 101 017 220 1001 |



| Wire gauge | Φ | Stripping length |
|---|------|------------------|
| 0.14 - 0.37 mm ² AWG 26 - 22 | 0.9 | 8 mm |
| 0.5 mm ² AWG 20 | 1.1 | 8 mm |
| 0.75 mm ² AWG 18 | 1.3 | 8 mm |
| 1 mm ² AWG 18 | 1.45 | 8 mm |
| 1.5 mm ² AWG 16 | 1.75 | 8 mm |
| 2.5 mm ² AWG 14 | 2.25 | 6 mm |

When the wire gauge is less than 0.75mm², it's better to use the auxiliary pin assembly tool TL15.

Crimp contacts 40A

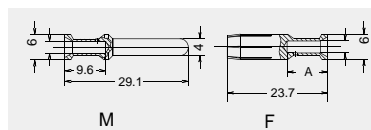
silver plated



gold plated



| Male | Designation | Female | Order No. |
|-----------|------------------|-----------|------------------|
| CCSM -1.5 | 101 023 110 0901 | CCSF -1.5 | 101 023 120 0901 |
| CCSM -2.5 | 101 023 110 1001 | CCSF -2.5 | 101 023 120 1001 |
| CCSM -4.0 | 101 023 110 1201 | CCSF -4.0 | 101 023 120 1201 |
| CCSM -6.0 | 101 023 110 1301 | CCSF -6.0 | 101 023 120 1301 |
| CCGM -1.5 | 101 023 210 0901 | CCGF -1.5 | 101 023 220 0901 |
| CCGM -2.5 | 101 023 210 1001 | CCGF -2.5 | 101 023 220 1001 |
| CCGM -4.0 | 101 023 210 1201 | CCGF -4.0 | 101 023 220 1201 |
| CCGM -6.0 | 101 023 210 1301 | CCGF -6.0 | 101 023 220 1301 |



| Wire gauge | Φ | Stripping length |
|----------------------------|------|------------------|
| 1.5 mm ² AWG 16 | 1.75 | 9 mm |
| 2.5mm ² AWG 14 | 2.25 | 9 mm |
| 4 mm ² AWG 12 | 2.85 | 9.6 mm |
| 6 mm ² AWG 10 | 3.5 | 9.6 mm |

Tools

Crimping tool



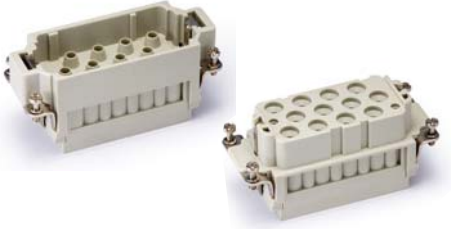
Contact removal tool



| Wire gauge | Designation | Order No. |
|-------------------------|-------------|------------------|
| 0.14 - 4mm ² | TL02G | 198 001 001 0011 |
| 1.5 - 6mm ² | TL02 - OG | 198 001 001 0012 |
| Application | Designation | Order No. |
| for crimp contacts 10A | TL00 | 198 001 000 0001 |
| Application | Designation | Order NO. |
| for crimp contacts 40A | TL06G | 198 001 000 0009 |

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

HKH-012/0 Combination high mating cycle inserts



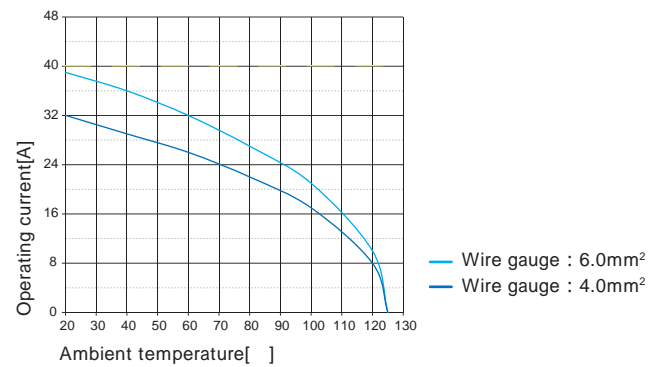
Technical characteristics

| | |
|--|--------------------------------|
| Specifications | DIN EN 60 664 DIN EN 61 984 |
| Approvals | C€ EAC |
| Inserts | |
| Number of contacts | 12/0+PE |
| Electrical data acc. to EN 61 984 | |
| Power area | |
| - Rated current | 40A |
| - Rated voltage | 690V |
| - Rated impulse voltage | 8kV |
| - Pollution degree | 3 |
| Rated voltage acc. to UL | 600/300V |
| Insulation resistance | 10 ¹⁰ |
| Material | polycarbonate |
| Limiting temperatures | - 40 ...+125 |
| Flammability acc. to UL 94 | V0 |
| Mechanical working life(mating cycles) | 5000 |
| Contacts | |
| Power contacts | |
| - Material | copper alloy |
| - Surface | hard - gold plated |
| - Contact resistance | 1m |
| - Crimp terminal | |
| - mm ² | 1.5 - 6mm ² |
| - AWG | 16 - 10 |

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



HKH-012/0 Combination high mating cycle inserts

690/250V 40/10A 12/0+⊕

CE ENEC

Inserts

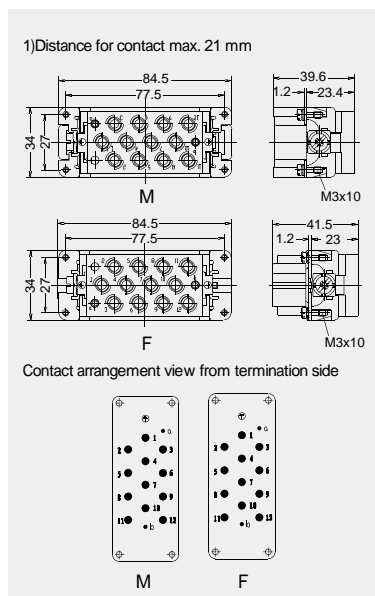
Hoods/Housings: size 16B, please find the details on page 15-70~15-107.

Crimp terminal

Order crimp contacts separately



| Insert | Designation | Order No. |
|--------|--------------|------------------|
| Male | HKH-012/0-MC | 128 012 010 0001 |
| Female | HKH-012/0-FC | 128 012 020 0001 |



Crimp contacts

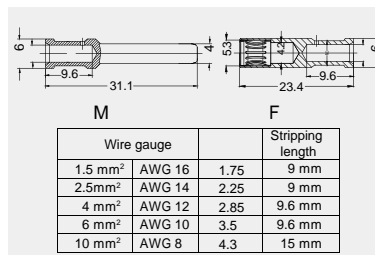
Crimp contacts 40A-high mating cycle

gold plated

Mechanical working life
(mating cycles) 5000



| Male | Designation | Female | Order No. |
|------------|------------------|-------------|------------------|
| CCGMH-1.5 | 101 023 210 0909 | CCGFH-1.5G | 101 023 220 0909 |
| CCGMH-2.5 | 101 023 210 1009 | CCGFH-2.5G | 101 023 220 1009 |
| CCGMH-4.0 | 101 023 210 1209 | CCGFH-4.0G | 101 023 220 1209 |
| CCGMH-6.0 | 101 023 210 1309 | CCGFH-6.0G | 101 023 220 1309 |
| CCGMH-10.0 | 101 023 210 1409 | CCGFH-10.0G | 101 023 220 1409 |



Tools

Crimping tool



| Wire gauge | Designation | Order No. |
|------------------------|-------------|------------------|
| 1.5 - 6mm ² | TL02-0G | 198 001 001 0012 |
| 4/6/10mm ² | TL02-3G | 198 001 001 0013 |

Contact removal tool



| Application | Designation | Order NO. |
|------------------------|-------------|------------------|
| for crimp contacts 40A | TL06G | 198 001 000 0009 |

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

HK-006/6 Combination inserts



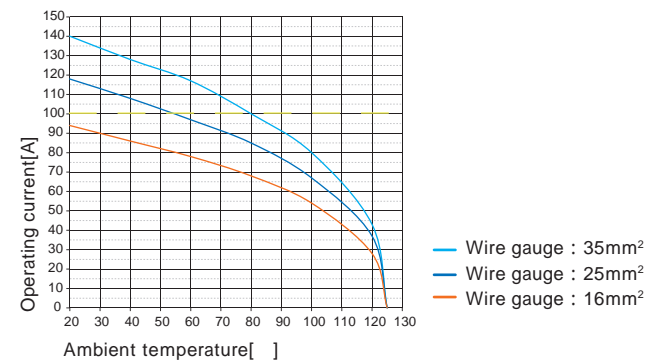
Technical characteristics

| | |
|--|--------------------------------|
| Specifications | DIN EN 60 664 DIN EN 61 984 |
| Approvals | |
| Inserts | |
| Number of contacts | 6/6+PE |
| Electrical data acc. to EN 61 984 | |
| Power area | |
| - Rated current | 100A |
| - Rated voltage | 690V |
| - Rated impulse voltage | 8kV |
| - Pollution degree | 3 |
| - Pollution degree 2 also | 100A 1000V 8kV 2 |
| Signal area | |
| - Rated current | 16A |
| - Rated voltage | 400V |
| - Rated impulse voltage | 6kV |
| - Pollution degree | 3 |
| Rated voltage acc. to UL | 600/300V |
| Insulation resistance | 10 ¹⁰ |
| Material | polycarbonate |
| Limiting temperatures | - 40 ...+125 |
| Flammability acc. to UL 94 | V0 |
| Mechanical working life(mating cycles) | 500 |
| Contacts | |
| Power contacts | |
| - Material | copper alloy |
| - Surface | hard - silver plated |
| - Contact resistance | 0.5m |
| - Axial screw termination | |
| - geometric wire gauge | 16 - 35mm ² |
| - AWG | 5 - 2 |
| - Max. insulation diameter | 11.4mm |
| - Tightening torque | |
| - mm ² | 16 25 35 |
| - Nm | 6 7 8 |
| - Stripping length | 13 ⁺¹ mm |
| Signal contacts | |
| - Material | copper alloy |
| - Surface | hard - silver plated |
| - Contact resistance | 3m |
| - Screw terminal | |
| - geometric wire gauge | 0.2 - 2.5mm ² |
| - AWG | 24 - 13 |
| - Tightening torque | 0.8Nm |
| - 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



HK-006/6 Combination inserts

690/400V 100/16A 6/6+⊕



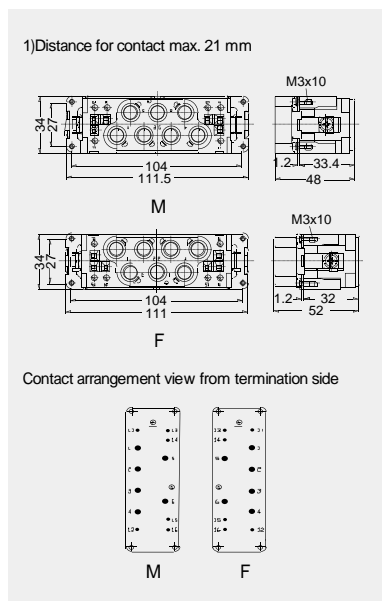
Inserts

Hoods/Housings: Only suitable for size 24B high structure shells, please find the details on page 15-108~15-135.
Not suitable for high structure shells with side entry and without sleeve.

Axial screw terminal¹⁾/Screw terminal



| Insert | Designation | Order No. |
|--------|----------------|------------------|
| Male | HK - 006/6 - M | 128 012 011 0101 |
| Female | HK - 006/6 - F | 128 012 021 0101 |



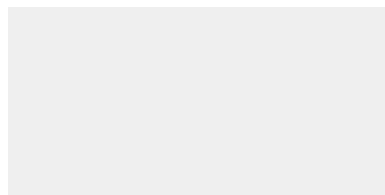
Accessories

Tool

hexagonal driver



| Description | Designation | Order No. |
|------------------------------|-------------|------------------|
| for axial setscrew with grip | SW - 4*150 | 198 001 003 0001 |



1) See P00 - 33~00 - 34 for the structural characteristics and description of Axial screw terminal.

HK-008/0 Combination inserts



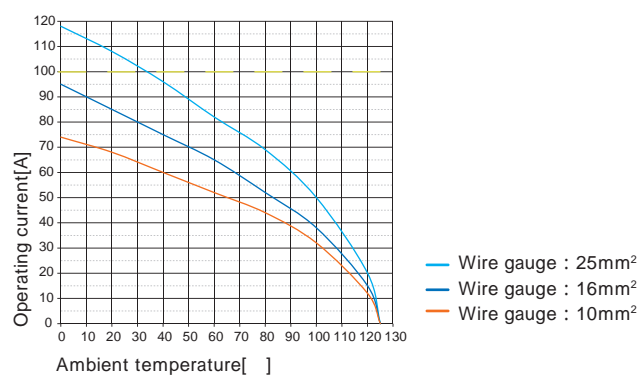
Technical characteristics

| | |
|--|--------------------------------|
| Specifications | DIN EN 60 664 DIN EN 61 984 |
| Approvals | |
| Inserts | |
| Number of contacts | 8/0+PE |
| Electrical data acc. to EN 61 984 | |
| Power area | |
| Rated current | 100A |
| Rated voltage | 690V |
| Rated impulse voltage | 8kV |
| Pollution degree | 3 |
| Pollution degree 2 also | 100A 1000V 8kV 2 |
| Rated voltage acc. to UL | 600V |
| Rated current acc. to UL | 82A |
| Insulation resistance | 10 ¹⁰ |
| Material | polycarbonate |
| Limiting temperatures | -40 ...+125 |
| Flammability acc. to UL 94 | V0 |
| Mechanical working life(mating cycles) | 500 |
| Contacts | |
| Material | copper alloy |
| Surface | hard - silver plated |
| Contact resistance | 0.5m |
| Axial screw termination | |
| - geometric wire gauge | 10 - 25mm ² |
| - AWG | 7 - 3 |
| Max. insulation diameter | 11.4mm |
| Tightening torque | |
| - mm ² | 10 16 25 |
| - Nm | 6 6 7 |
| Stripping length | 13 [±] mm |

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



HK-008/0 Combination inserts

690V 100A 8/0+ 



Hoods/Housings: size 24B, please find the details on page 15-108~15-135.
Not suitable for high structure shells with side entry and without sleeve.

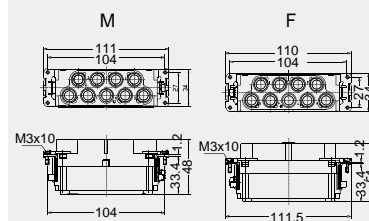
Inserts

Axial screw termination¹⁾

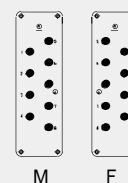


| Insert | Designation | Order No. |
|--------|----------------|------------------|
| Male | HK - 008/0 - M | 128 008 011 0001 |
| Female | HK - 008/0 - F | 128 008 021 0001 |

1) Distance for contact max. 21 mm



Contact arrangement view from termination side



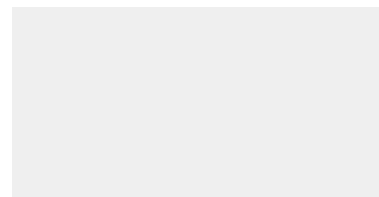
Accessories

Tool

hexagonal driver

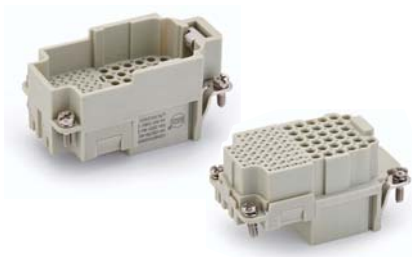


| Description | Designation | Order No. |
|------------------------------|-------------|------------------|
| for axial setscrew with grip | SW - 4*150 | 198 001 003 0001 |



1) See P00-33-00-34 for the structural characteristics and description of Axial screw terminal.

HK-032/55 Combination inserts



Technical characteristics

| | |
|--|---|
| Specifications | DIN EN 60 664 DIN EN 61 984 |
| Approvals | |
| Inserts | |
| Number of contacts | 32/55 |
| Electrical data acc. to EN 61 984 | |
| Signal area | |
| Rated current | 4A |
| Rated voltage | 50V |
| Rated impulse voltage | 0.8kV |
| Pollution degree | 2 |
| Power area | |
| Rated current | 10A |
| Rated voltage | 250V |
| Rated impulse voltage | 4kV |
| Pollution degree | 2 |
| Rated voltage acc. to UL | 600V |
| Insulation resistance | 10 ¹⁰ |
| Material | polycarbonate |
| Limiting temperatures | -40 ...+125 |
| Flammability acc. to UL 94 | V0 |
| Mechanical working life(mating cycles) | 500 |
| Contacts | |
| Material | copper alloy |
| Surface | hard - silver plated hard - gold plated |
| Contact resistance | 3m |
| Crimp terminal | |
| - mm ² | 0.09 - 0.52mm ² /0.14 - 2.5mm ² |
| - AWG | 28 - 20/26 - 14 |
| Stripping length | 5/8mm |

HK-032/55 Combination inserts

250/50V 10/4A 32/55+



Inserts

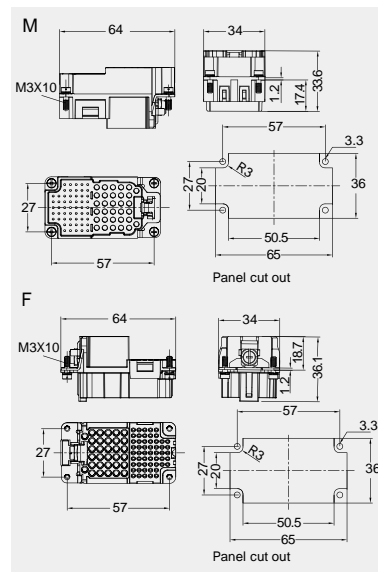
Hoods/Housings: size 10B, please find the details on page 15-39~15-69.

Crimp terminal

Order crimp contacts separately



| Insert | Designation | Order No. |
|--------|-----------------|------------------|
| Male | HK -032/55 - MC | 128 087 010 0001 |
| Female | HK -032/55 - FC | 128 087 020 0001 |



Crimp contacts

Crimp contacts 5A

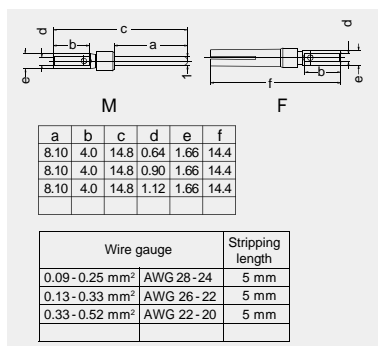
Contact resistance 3m
silver plated



gold plated



| Male | Order No. | Female | Order No. |
|------------|------------------|------------|------------------|
| CSSM -0.25 | 101 014 110 0101 | CSSF -0.25 | 101 014 120 0101 |
| CSSM -0.33 | 101 014 110 0201 | CSSF -0.33 | 101 014 120 0201 |
| CSSM -0.52 | 101 014 110 0501 | CSSF -0.52 | 101 014 120 0501 |
| CSGM -0.25 | 101 014 210 0101 | CSGF -0.25 | 101 014 220 0101 |
| CSGM -0.33 | 101 014 210 0201 | CSGF -0.33 | 101 014 220 0201 |
| CSGM -0.52 | 101 014 210 0501 | CSGF -0.52 | 101 014 220 0501 |



Crimp contacts 10A

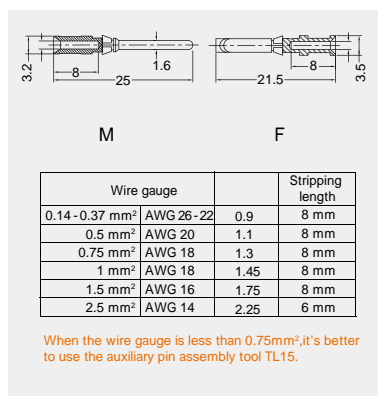
contact resistance 3m
silver plated



gold plated



| Male | Designation | Female | Designation |
|------------|------------------|------------|------------------|
| CDSM -0.25 | 101 017 110 0101 | CDSF -0.25 | 101 017 120 0101 |
| CDSM -0.37 | 101 017 110 0301 | CDSF -0.37 | 101 017 120 0301 |
| CDSM -0.50 | 101 017 110 0401 | CDSF -0.50 | 101 017 120 0401 |
| CDSM -0.75 | 101 017 110 0601 | CDSF -0.75 | 101 017 120 0601 |
| CDSM -1.0 | 101 017 110 0801 | CDSF -1.0 | 101 017 120 0801 |
| CDSM -1.5 | 101 017 110 0901 | CDSF -1.5 | 101 017 120 0901 |
| CDSM -2.5 | 101 017 110 1001 | CDSF -2.5 | 101 017 120 1001 |
| CDGM -0.25 | 101 017 210 0101 | CDGF -0.25 | 101 017 220 0101 |
| CDGM -0.37 | 101 017 210 0301 | CDGF -0.37 | 101 017 220 0301 |
| CDGM -0.50 | 101 017 210 0401 | CDGF -0.50 | 101 017 220 0401 |
| CDGM -0.75 | 101 017 210 0601 | CDGF -0.75 | 101 017 220 0601 |
| CDGM -1.0 | 101 017 210 0801 | CDGF -1.0 | 101 017 220 0801 |
| CDGM -1.5 | 101 017 210 0901 | CDGF -1.5 | 101 017 220 0901 |
| CDGM -2.5 | 101 017 210 1001 | CDGF -2.5 | 101 017 220 1001 |



Tools

Crimping tool



| Wire gauge | Designation | Order No. |
|----------------------------|-------------|------------------|
| 0.09 - 0.82mm ² | TL03 | 198 001 001 0002 |

Contact removal tool



| Application | Designation | Order No. |
|----------------------|-------------|------------------|
| for 5A crimp contact | TL08 | 198 001 000 0006 |

Tools

Crimping tool



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

| Wire gauge | Designation | Order No. |
|-------------------------|-------------|------------------|
| 0.14 - 4mm ² | TL02G | 198 001 001 0011 |

Contact removal tool



| Application | Designation | Order No. |
|-----------------------|-------------|------------------|
| for 10A crimp contact | TL00 | 198 001 000 0001 |

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

HK-009/12/25 Combination inserts



Technical characteristics

| | |
|--|---|
| Specifications | DIN EN 60 664 DIN EN 61 984 |
| Approvals | |
| Inserts | |
| Number of contacts | 9/12/25 |
| Electrical data acc. to EN 61 984 | |
| Signal area | |
| Rated current | 5A |
| Rated voltage | 50V |
| Rated impulse voltage | 0.8KV |
| Pollution degree | 3 |
| Power area | |
| Rated current | 10A/40A |
| Rated voltage | 250V/630V |
| Rated impulse voltage | 4KV/8KV |
| Pollution degree | 3 |
| Insulation resistance | 10 ¹⁰ |
| Material | polycarbonate |
| Limiting temperatures | -40 ...+125 |
| Flammability acc. to UL 94 | V0 |
| Mechanical working life(mating cycles) | 500 |
| Contacts | |
| Material | copper alloy |
| Surface | hard - silver plated hard - gold plated |
| Contact resistance | 3m /1m |
| Crimp terminal | |
| - mm ² | 0.09 - 0.52mm ² /0.14 - 2.5mm ² / 1.5 - 6mm ² |
| - AWG | 28 - 20/26 - 14/16 - 10 |
| Stripping length | 5/8/9(9.6)mm |

HK-009/12/25 Combination inserts

630/250/50V 40/10/5A 009/12/25+

Inserts

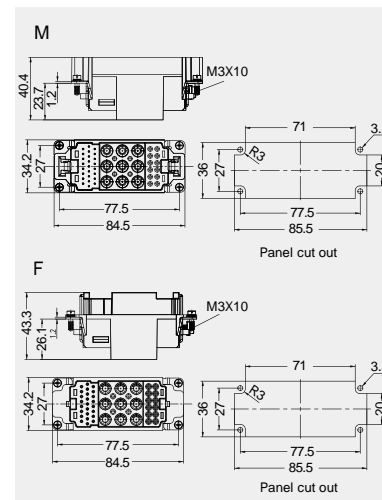
Hoods/Housings: size 16B, please find the details on page 15-70~15-107.

Crimp terminal

Order crimp contacts separately



| Insert | Designation | Order No. |
|--------|-----------------|------------------|
| Male | HK-009/12/25-MC | 128 009 010 0002 |
| Female | HK-009/12/25-FC | 128 009 020 0002 |



Crimp contacts

Crimp contacts 5A

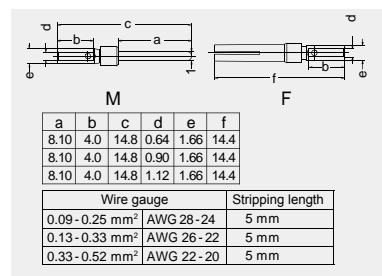
Contact resistance 3m silver plated



gold plated



| Male | Order No. | Female | Order No. |
|-----------|------------------|-----------|------------------|
| CSSM-0.25 | 101 014 110 0101 | CSSF-0.25 | 101 014 120 0101 |
| CSSM-0.33 | 101 014 110 0201 | CSSF-0.33 | 101 014 120 0201 |
| CSSM-0.52 | 101 014 110 0501 | CSSF-0.52 | 101 014 120 0501 |
| CSGM-0.25 | 101 014 210 0101 | CSGF-0.25 | 101 014 220 0101 |
| CSGM-0.33 | 101 014 210 0201 | CSGF-0.33 | 101 014 220 0201 |
| CSGM-0.52 | 101 014 210 0501 | CSGF-0.52 | 101 014 220 0501 |



Crimp contacts 10A

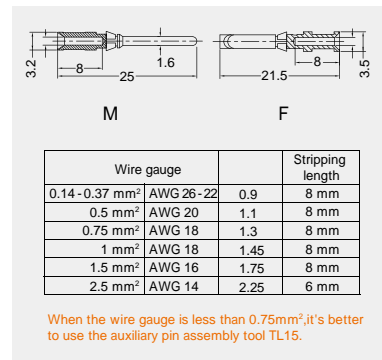
contact resistance 3m silver plated



gold plated



| Male | Designation | Female | Designation |
|-----------|------------------|-----------|------------------|
| CDSM-0.25 | 101 017 110 0101 | CDSF-0.25 | 101 017 120 0101 |
| CDSM-0.37 | 101 017 110 0301 | CDSF-0.37 | 101 017 120 0301 |
| CDSM-0.50 | 101 017 110 0401 | CDSF-0.50 | 101 017 120 0401 |
| CDSM-0.75 | 101 017 110 0601 | CDSF-0.75 | 101 017 120 0601 |
| CDSM-1.0 | 101 017 110 0801 | CDSF-1.0 | 101 017 120 0801 |
| CDSM-1.5 | 101 017 110 0901 | CDSF-1.5 | 101 017 120 0901 |
| CDSM-2.5 | 101 017 110 1001 | CDSF-2.5 | 101 017 120 1001 |
| CDGM-0.25 | 101 017 210 0101 | CDGF-0.25 | 101 017 220 0101 |
| CDGM-0.37 | 101 017 210 0301 | CDGF-0.37 | 101 017 220 0301 |
| CDGM-0.50 | 101 017 210 0401 | CDGF-0.50 | 101 017 220 0401 |
| CDGM-0.75 | 101 017 210 0601 | CDGF-0.75 | 101 017 220 0601 |
| CDGM-1.0 | 101 017 210 0801 | CDGF-1.0 | 101 017 220 0801 |
| CDGM-1.5 | 101 017 210 0901 | CDGF-1.5 | 101 017 220 0901 |
| CDGM-2.5 | 101 017 210 1001 | CDGF-2.5 | 101 017 220 1001 |



Crimp contacts 40A

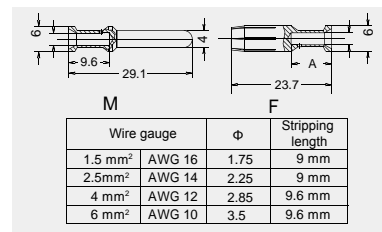
silver plated



gold plated



| Male | Designation | Female | Order No. |
|----------|------------------|----------|------------------|
| CCSM-1.5 | 101 023 110 0901 | CCSF-1.5 | 101 023 120 0901 |
| CCSM-2.5 | 101 023 110 1001 | CCSF-2.5 | 101 023 120 1001 |
| CCSM-4.0 | 101 023 110 1201 | CCSF-4.0 | 101 023 120 1201 |
| CCSM-6.0 | 101 023 110 1301 | CCSF-6.0 | 101 023 120 1301 |
| CCGM-1.5 | 101 023 210 0901 | CCGF-1.5 | 101 023 220 0901 |
| CCGM-2.5 | 101 023 210 1001 | CCGF-2.5 | 101 023 220 1001 |
| CCGM-4.0 | 101 023 210 1201 | CCGF-4.0 | 101 023 220 1201 |
| CCGM-6.0 | 101 023 210 1301 | CCGF-6.0 | 101 023 220 1301 |



Tools

Crimping tool



| Wire gauge | Designation | Order No. |
|--------------------------|-------------|------------------|
| 0.09-0.82mm ² | TL03 | 198 001 001 0002 |
| 0.14-4mm ² | TL02G | 198 001 001 0011 |
| 1.5-6mm ² | TL02-0G | 198 001 001 0012 |

Tools

Contact removal tool



| Application | Designation | Order No. |
|-----------------------|-------------|------------------|
| for 5A crimp contact | TL08 | 198 001 000 0006 |
| for 10A crimp contact | TL00 | 198 001 000 0001 |
| for 40A crimp contact | TL06G | 198 001 000 0009 |

Notes: The tools for crimp terminal may influence the product quality and stability. Please select the tools recognized by our company. More tools detail please find the page32-03~32-06.