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Series HA



Series HA

Series HA 3 - 48 pole Screw connection

- Screw clamp termination
- Pole numbers: 3, 4, 10, 16, 32, 48

Note:

The 3-pole connector is a 4-pole connector with 3 poles assembled;
32-pole connectors are composed of two 16-pole inserts numbered 1-16 and 17-36;
48-pole connectors are composed of three 16-pole inserts numbered 1-16, 17-32 and 33-48.

Series HA

Technical data

| Series HA | |
|--|--|
| Standards | DIN VDE 0627 DIN VDE 0110 |
| Approvals | |
| Inserts | |
| No. of poles | 3, 4, 10, 16, 32, 48 (+ PE) |
| Rated current | |
| - 3 + 4 pole | 10 A max. |
| - 10 - 48 pole | 16 A max. |
| Insulation group | C |
| Rated voltage (VDE 110/1.89) | |
| - 3 + 4 pole | 400 V |
| - 10 - 48 pole | 250 V |
| Rated impulse voltage HA10, HA16 | 4 kV |
| Pollution degree HA10,HA16 | 3 |
| Contact resistance HA3 | 10 ¹⁵ Ohmcm |
| Contact resistance HA4,HA10,HA16 | 10 ¹³ Ohmcm |
| Material | PC glass-fibre reinforced (UL listed) |
| Temperature range | -40° ... + 125° C |
| Flammability | |
| class acc. UL 94 | V-0 |
| Mechanical durability insertion frequency Ag | ≤ 100 |
| Rated voltage aa. UL / CSA | 600 V |
| Connection method: HA - inserts | Screw connection |

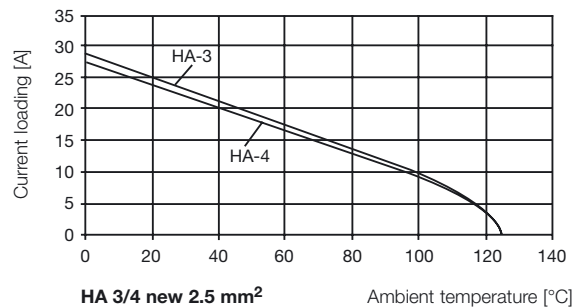
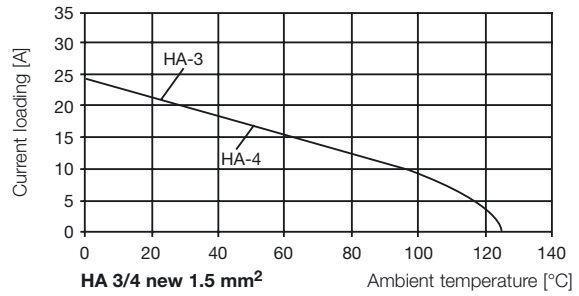
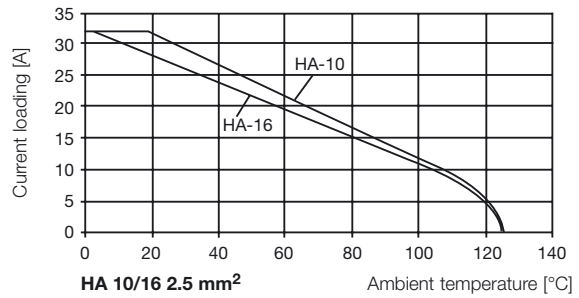
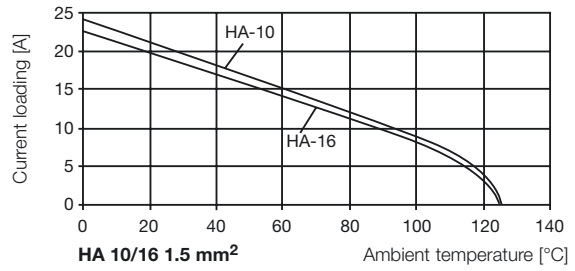
Contacts

| | |
|---------------------------------|-----------------|
| Material | Copper alloy |
| Plating | 3 mm Ag |
| Through resistance HA - inserts | ≤1.5 - 4.0 mOhm |
| Clamping range | |
| mm ² | 0.5 - 2.5 |
| AWG | 22 ... 14 |
| Torque | 0.5 Nm |
| Insulating stripping length | |
| 3 + 4-pole | 6.0 mm |
| 10 - 48-pole | 7.0 mm |

Hoods and Housing

| | |
|--|-------------------------------|
| Material | |
| Group size 1 | Die cast zinc / thermoplastic |
| Group size 2 -12 | Aluminium die cast AL-Si 12 |
| Flammability class acc. UL 94 (Group size 1 in thermoplastic) | V-0 |
| Surface | Powder coating, grey |
| Locking | |
| - Standard | Steel, zinc plated |
| Gasket | NBR |
| Temperature range | -40° ... + 125° C |
| Protection class i.a.w DIN when locked | |
| 3 + 4-pole | IP 54 |
| 10 - 48-pole | IP 65 |

Derating curves



Inserts Group Size 1

New

New

Screw connection HA-3

3-pole + PE

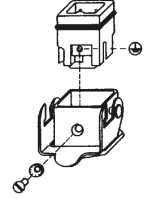
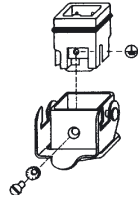
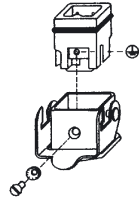
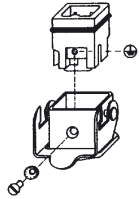
400 V-/max. 10 A

Screw connection HA-4

4-pole + PE

400 V-/max. 10 A

Series HA



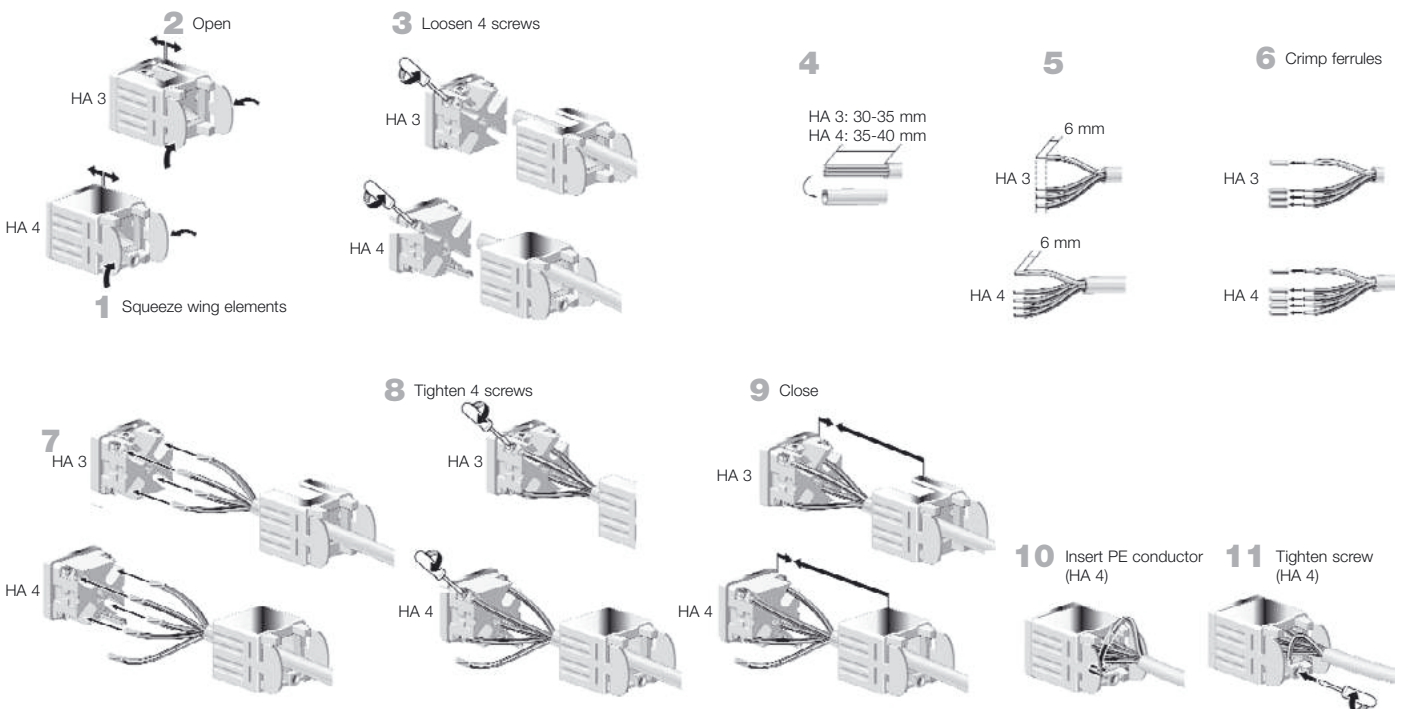
| Version | Type | Cat. No. | Qty. |
|---------|------------|------------|------|
| Male | HDC-HA-3SS | 1498100000 | 10 |
| Female | HDC-HA-3BS | 1498200000 | 10 |

| Version | Type | Cat. No. | Qty. |
|---------|------------|------------|------|
| Male | HDC-HA-4SS | 1498300000 | 10 |
| Female | HDC-HA-4BS | 1498400000 | 10 |

For accessories see section "Accessories"

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Mounting instructions HA-3 and HA-4 male / female inserts



Housings Group Size 1

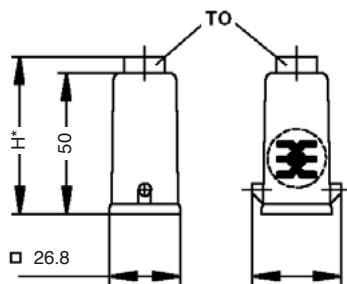
Plug hood HA-3/HAD-7

End locking / lower side



TOVL

Dimensions



H* M = 50
PG, Metal = 57
PG, Plastic = 62

HAD=36
HA=33.5

| Version | Type | Cat. No. | Qty. |
|---------------------------------------|----------------------|------------|------|
| Plastic housing, metric thread | | | |
| 1 x M 20 thread | HDC HAD7 TOVL 1xM20G | 1788520000 | 10 |
| Plastic housing, PG thread | | | |
| 1 x Pg 11 complete | HDC-HAD-7-TOVL1/11P | 1652370000 | 10 |
| 1 x Pg 11 sleeve | HDC-HAD-7-TOVL1/11 | 1652380000 | 10 |
| Metal housing, metric thread | | | |
| 1 x M 20 thread | HDC HA3 TOVL 1xM20G | 1788820000 | 10 |
| Metal housing, PG thread | | | |
| 1 x Pg 11 complete | HDC-HA-3-TOVL1/11P | 1498500000 | 10 |
| 1 x Pg 11 sleeve | HDC-HA-3-TOVL1/11 | 1652470000 | 10 |

TOVL = Plug hood; Top cable entry, end locking
HAD-7 = Plastic housing
HA-3 = Metal housing

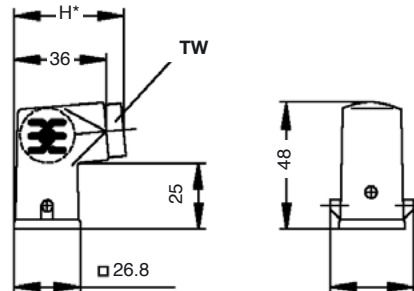
Plug hood HA-3/HAD-7

End locking / lower side



TWVL

Dimensions



H* M = 36
PG, Metal = 43
PG, Plastic = 48

HAD=36
HA=33.5

| Version | Type | Cat. No. | Qty. |
|---------------------------------------|----------------------|------------|------|
| Plastic housing, metric thread | | | |
| 1 x M 20 thread | HDC HAD7 TWVL 1xM20G | 1788510000 | 10 |
| Plastic housing, PG thread | | | |
| 1 x Pg 11 complete | HDC-HAD-7-TWVL1/11P | 1652390000 | 10 |
| 1 x Pg 11 sleeve | HDC-HAD-7-TWVL1/11 | 1652400000 | 10 |
| Metal housing, metric thread | | | |
| 1 x M 20 thread | HDC HA3 TWVL 1xM20G | 1788810000 | 10 |
| Metal housing, PG thread | | | |
| 1 x Pg 11 complete | HDC-HA-3-TWVL1/11P | 1498600000 | 10 |
| 1 x Pg 11 sleeve | HDC-HA-3-TWVL1/11 | 1652480000 | 10 |

TWVL = Plug hood angled, end locking
HAD-7 = Plastic housing
HA-3 = Metal housing

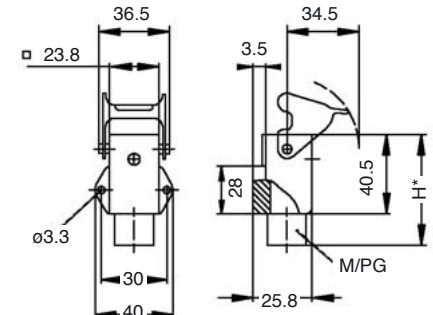
Base housing HA-3/HAD-7

End locking



SVL

Dimensions



H* M = 40.5
PG, Metal = 57
PG, Plastic = 62

| Version | Type | Cat. No. | Qty. |
|---------------------------------------|---------------------|------------|------|
| Plastic housing, metric thread | | | |
| 1 x M 20 thread | HDC HAD7 SVL 1xM20G | 1788530000 | 10 |
| Plastic housing, PG thread | | | |
| 1 x Pg 11 complete | HDC-HAD-7-SVL1/11P | 1652430000 | 10 |
| 1 x Pg 11 sleeve | HDC-HAD-7-SVL1/11 | 1652440000 | 10 |
| Metal housing, metric thread | | | |
| 1 x M 20 sleeve | HDC HA3 SVL 1xM20 | 1788830000 | 10 |
| Metal housing, PG thread | | | |
| 1 x Pg 11 complete | HDC-HA-3-SVL1/11P | 1497800000 | 10 |
| 1 x Pg 11 sleeve | HDC-HA-3-SVL1/11 | 1652490000 | 10 |

SVL = Base housing, end locking
HAD-7 = Plastic housing
HA-3 = Metal housing

For accessories see section "Accessories"

Housings Group Size 1

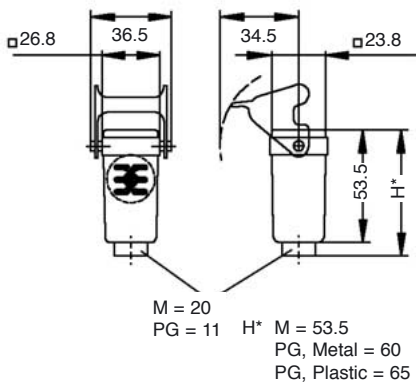
Coupling hood HA-3/HAD-7

End locking



KVL

Dimensions



| Version | Type | Cat. No. | Qty. |
|---------------------------------------|---------------------|------------|------|
| Plastic housing, metric thread | | | |
| 1 x M 20 thread | HDC HAD7 KVL 1xM20G | 1788540000 | 10 |
| Plastic housing, PG thread | | | |
| 1 x Pg 11 complete | HDC-HAD-7-KVL1/11P | 1652450000 | 10 |
| 1 x Pg 11 sleeve | HDC-HAD-7-KVL1/11 | 1652460000 | 10 |
| Metal housing, metric thread | | | |
| 1 x M 20 thread | HDC HA3 KVL 1xM20G | 1788840000 | 10 |
| Metal housing, PG thread | | | |
| 1 x Pg 11 complete | HDC-HA-3-KVL1/11P | 1497900000 | 10 |
| 1 x Pg 11 sleeve | HDC-HA-3-KVL1/11 | 1652500000 | 10 |

KVL = Coupling hood, end locking
HAD-7 = Plastic housing
HA-3 = Metal housing

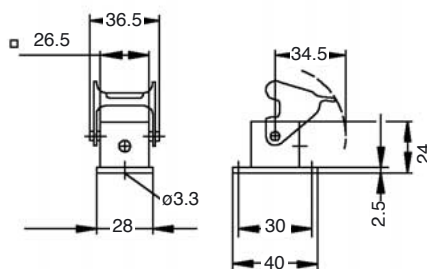
Bulkhead housing HA-3/HAD-7

End locking



AVL

Dimensions



| Version | Type | Cat. No. | Qty. |
|------------------------|---------------|------------|------|
| Plastic housing | | | |
| | HDC-HAD-7-AVL | 1652410000 | 10 |
| Metal housing | | | |
| | HDC-HA-3-AVL | 1497600000 | 10 |

AVL = Bulkhead housing, end locking
HAD-7 = Plastic housing
HA-3 = Metal housing

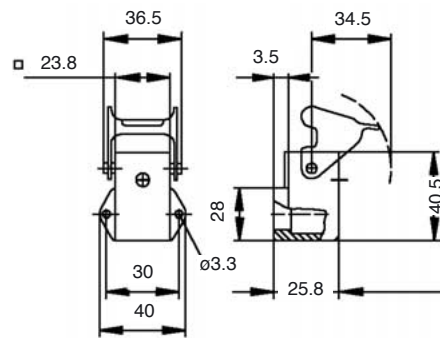
Bulkhead housing angled HA-3/HAD-7

End locking



AWL

Dimensions

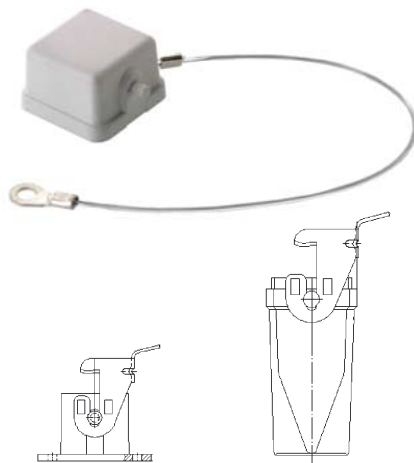


| Version | Type | Cat. No. | Qty. |
|------------------------|----------------|------------|------|
| Plastic housing | | | |
| | HDC-HAD-7-AWVL | 1652420000 | 10 |
| Metal housing | | | |
| | HDC-HA-3-AWVL | 1497700000 | 10 |

AWL = Bulkhead housing angled, end locking
HAD-7 = Plastic housing
HA-3 = Metal housing

Cover for housings with end locking

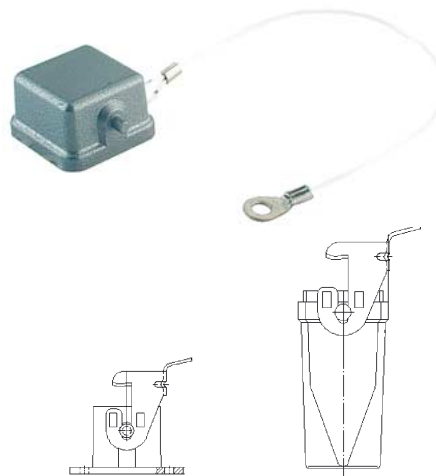
Plastic / Cover with cord



| Version / Type | Cat. No. | Qty. |
|----------------------|------------|------|
| Plastic cover | | |
| HDC-HA-3-KDBF-S | 1665760000 | 10 |
| HDC-HA-3-KDBF-B | 1665770000 | 10 |

S = Cover without sealing when using male inserts
 B = Cover without sealing when using female inserts

Metal / Cover with cord



| Version / Type | Cat. No. | Qty. |
|--------------------|------------|------|
| Metal cover | | |
| HDC-HA-3-MDBF-S | 1665740000 | 10 |
| HDC-HA-3-MDBF-B | 1665750000 | 10 |

S = Cover without sealing when using male inserts
 B = Cover without sealing when using female inserts

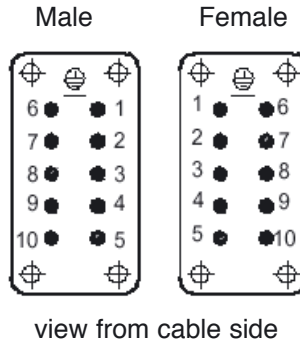
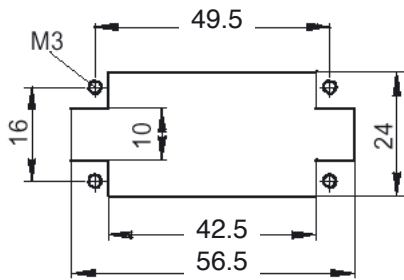
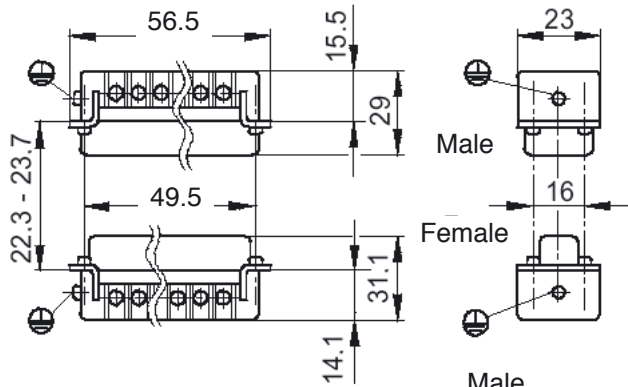
For accessories see section "Accessories"

Inserts Group Size 2

Screw connection HA-10

10-pole

250 V-/max 16 A



Housings Group Size 2

Plug hood HA-10

End locking / lower side

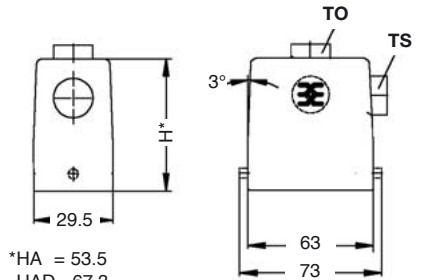


TOVL



TSVL

Dimensions



*HA = 53.5
HAD = 67.3

| Version | Type | Cat. No. | Qty. |
|---------|-------------|------------|------|
| Male | HDC-HA-10SS | 1650610000 | 5 |
| Female | HDC-HA-10BS | 1650620000 | 5 |

| Version | Type | Cat. No. | Qty. |
|---------|------|----------|------|
|---------|------|----------|------|

Standard housing, metric thread

| | | | |
|-----------------|-----------------------|------------|---|
| 1 x M 20 thread | HDC HA10 TOVL 1xM20G | 1788620000 | 5 |
| 1 x M 25 thread | HDC HA10 TOVL 1xM25G | 1788610000 | 5 |
| 1 x M 20 sleeve | HDC HA10 TSVL 1xM20 | 1788600000 | 5 |
| 1 x M 25 sleeve | HDC HA10 TSVL 1xM25 | 1788590000 | 5 |
| 1 x M 20 thread | HDC HAD15 TOVL 1xM20G | 1788880000 | 5 |
| 1 x M 25 thread | HDC HAD15 TOVL 1xM25G | 1788870000 | 5 |
| 1 x M 20 thread | HDC HAD15 TSVL 1xM20G | 1788860000 | 5 |
| 1 x M 25 thread | HDC HAD15 TSVL 1xM25G | 1788850000 | 5 |

Standard housing , PG thread

| | | | |
|-------------------|----------------------|------------|---|
| 1 x Pg16 complete | HDC-HA-10-TOVL1/16P | 1663920000 | 5 |
| 1 x Pg16 sleeve | HDC-HA-10-TOVL1/16 | 1663930000 | 5 |
| 1 x Pg16 complete | HDC-HA-10-TSVL1/16P | 1663800000 | 5 |
| 1 x Pg16 sleeve | HDC-HA-10-TSVL1/16 | 1663810000 | 5 |
| 1 x Pg16 complete | HDC-HAD-15-TOVL1/16P | 1663960000 | 5 |
| 1 x Pg21 complete | HDC-HAD-15-TOVL1/21P | 1663980000 | 5 |
| 1 x Pg21 sleeve | HDC-HAD-15-TOVL1/21 | 1663990000 | 5 |
| 1 x Pg16 complete | HDC-HAD-15-TSVL1/16P | 1663840000 | 5 |
| 1 x Pg16 sleeve | HDC-HAD-15-TSVL1/16 | 1663850000 | 5 |
| 1 x Pg21 complete | HDC-HAD-15-TSVL1/21P | 1663860000 | 5 |
| 1 x Pg21 sleeve | HDC-HAD-15-TSVL1/21 | 1663870000 | 5 |

TOVL = Plug hood; Top cable entry, end locking

TSVL = Plug hood; Side cable entry, end locking

For accessories see section "Accessories"

Housings Group Size 2

Base housing HA-10

End locking / with/without cover

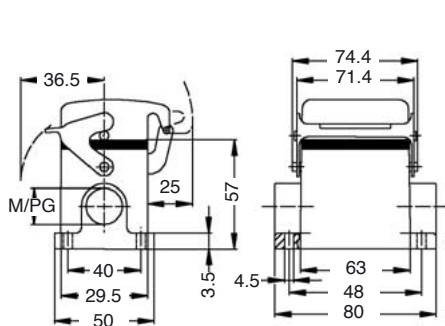


SVL



SDVL

Dimensions



| Version | Type | Cat. No. | Qty. |
|---|----------------------|------------|------|
| Standard housing, metric thread | | | |
| 2 x M 20 thread | HDC HA10 SVL 2xM20G | 1788640000 | 5 |
| 2 x M 25 thread | HDC HA10 SVL 2xM25G | 1788630000 | 5 |
| Standard housing with cover, metric thread | | | |
| 2 x M 20 thread | HDC HA10 SDVL 2xM20G | 1788660000 | 5 |
| 2 x M 25 thread | HDC HA10 SDVL 2xM25G | 1788650000 | 5 |
| Standard housing, PG thread | | | |
| 1 x Pg16 complete | HDC-HA-10-SVL1/16P | 1664160000 | 5 |
| 1 x Pg16 sleeve | HDC-HA-10-SVL1/16 | 1664170000 | 5 |
| 1 x Pg21 complete | HDC-HA-10-SVL1/21P | 1664200000 | 5 |
| 1 x Pg21 sleeve | HDC-HA-10-SVL1/21 | 1664210000 | 5 |
| 2 x Pg16 complete | HDC-HA-10-SVL2/16P | 1664180000 | 5 |
| 2 x Pg16 sleeve | HDC-HA-10-SVL2/16 | 1664190000 | 5 |
| Standard housing with cover, PG thread | | | |
| 1 x Pg16 complete | HDC-HA-10-SDVL1/16P | 1664400000 | 5 |
| 1 x Pg16 sleeve | HDC-HA-10-SDVL1/16 | 1664410000 | 5 |
| 2 x Pg16 complete | HDC-HA-10-SDVL2/16P | 1664420000 | 5 |

SVL = Base housing, end locking
SDVL = Base housing with cover, end locking

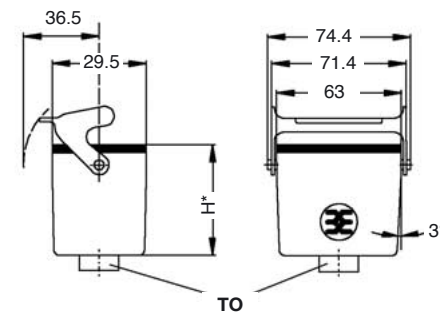
Coupling hood HA-10 / HAD-15

End locking



KVL

Dimensions



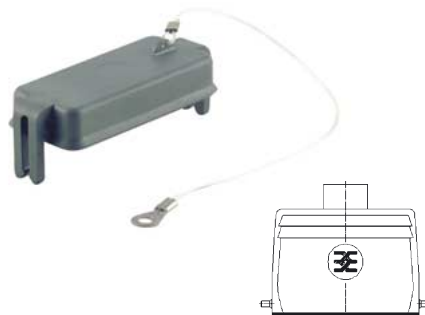
*HA = 48
HAD= 62

| Version | Type | Cat. No. | Qty. |
|--|----------------------|------------|------|
| Standard housing, metric thread | | | |
| 1 x M 25 thread | HDC HA10 KVL 1xM25G | 1788670000 | 5 |
| 1 x M 25 thread | HDC HAD15 KVL 1xM25G | 1788890000 | 2 |
| Standard housing, PG thread | | | |
| 1 x Pg16 complete | HDC-HA-10-KVL1/16P | 1664560000 | 5 |
| 1 x Pg21 complete | HDC-HAD-15-KVL1/21P | 1664620000 | 2 |
| 1 x Pg21 sleeve | HDC-HAD-15-KVL1/21 | 1664630000 | 2 |

KVL = Coupling hood, end locking

Cover for plug hood

Cover with cord



| Version / Type | Cat. No. | Qty. |
|----------------------|------------|------|
| Plastic cover | | |
| HDC-HA-10-KDF | 1665890000 | 5 |

Bulkhead housing HA-10

End locking / with/without cover

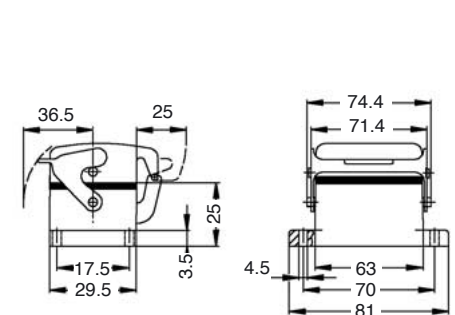


AVL



ADVL

Dimensions

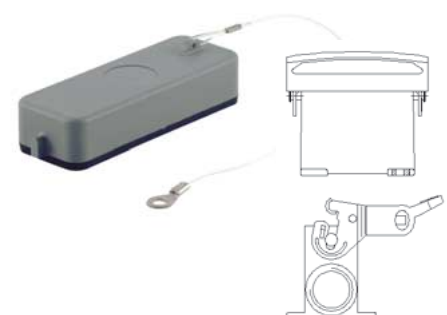


| Version | Type | Cat. No. | Qty. |
|------------------------------------|----------------|------------|------|
| Standard housing | | | |
| | HDC-HA-10-AVL | 1664040000 | 5 |
| Standard housing with cover | | | |
| | HDC-HA-10-ADVL | 1664060000 | 5 |

ADVL = Bulkhead housing with cover, end locking
AVL = Bulkhead housing, end locking

Cover for housings with end locking

Cover with cord



| Version / Type | Cat. No. | Qty. |
|----------------------|------------|------|
| Plastic cover | | |
| HDC-HA-10-KDBF | 1665880000 | 5 |

For accessories see section "Accessories"

Inserts Group Size 5

Housings Group Size 5

Screw connection HA-16

Plug hood HA-16 / HAD-25

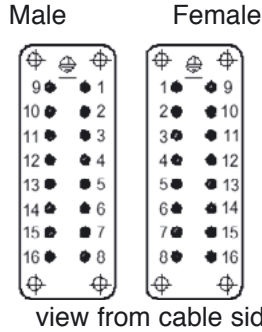
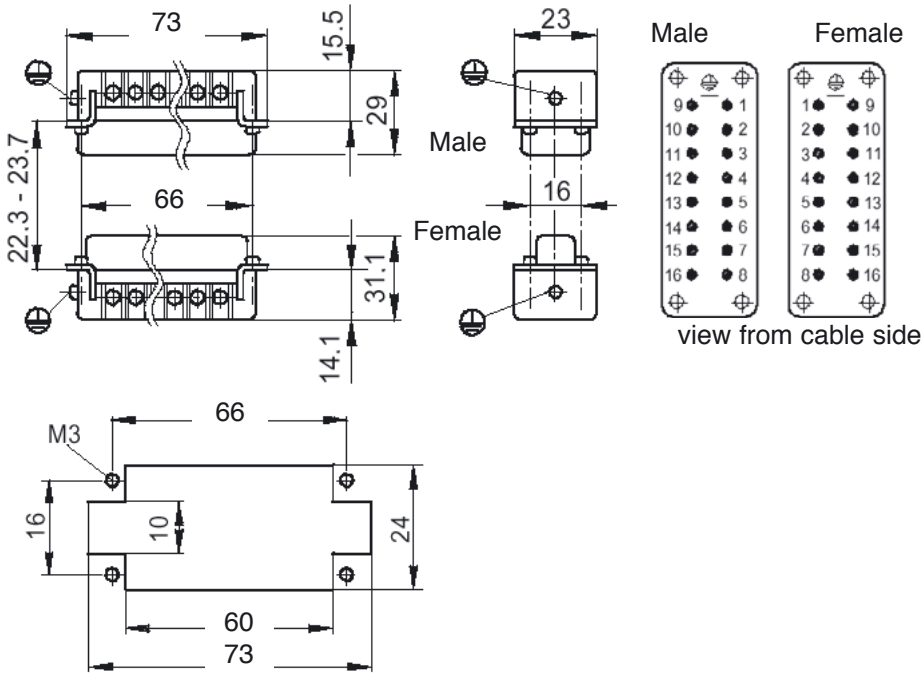
16-pole

250 V-/max 16 A

End locking / lower side

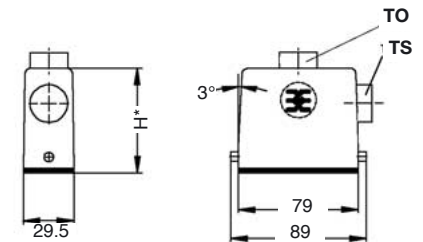


TOVL



TSVL

Dimensions



*HA = 58.3
HAD= 72.3

| Version | Type | Cat. No. | Qty. |
|---------|-------------|------------|------|
| Male | HDC-HA-16SS | 1650770000 | 5 |
| Female | HDC-HA-16BS | 1650780000 | 5 |

| Version | Type | Cat. No. | Qty. |
|---------|------|----------|------|
|---------|------|----------|------|

Standard housing, metric thread

| | | | |
|-----------------|-----------------------|------------|---|
| 1 x M 20 thread | HDC HA16 TOVL 1xM20G | 1804680000 | 5 |
| 1 x M 25 thread | HDC HA16 TOVL 1xM25G | 1788750000 | 5 |
| 1 x M 20 sleeve | HDC HA16 TSVL 1xM20 | 1804620000 | 5 |
| 1 x M 25 sleeve | HDC HA16 TSVL 1xM25 | 1788740000 | 5 |
| 1 x M 20 thread | HDC HAD25 TOVL 1xM20G | 1788710000 | 5 |
| 1 x M 25 thread | HDC HAD25 TOVL 1xM25G | 1788700000 | 5 |
| 1 x M 25 thread | HDC HAD25 TSVL 1xM25G | 1788690000 | 5 |
| 1 x M 32 thread | HDC HAD25 TSVL 1xM32G | 1788680000 | 5 |

Standard housing, PG thread

| | | | |
|-------------------|----------------------|------------|---|
| 1 x Pg16 complete | HDC-HA-16-TOVL1/16P | 1664800000 | 5 |
| 1 x Pg16 sleeve | HDC-HA-16-TOVL1/16 | 1664810000 | 5 |
| 1 x Pg16 complete | HDC-HA-16-TSVL1/16P | 1664680000 | 5 |
| 1 x Pg16 sleeve | HDC-HA-16-TSVL1/16 | 1664690000 | 5 |
| 1 x Pg16 complete | HDC-HAD-25-TOVL1/16P | 1664840000 | 5 |
| 1 x Pg16 sleeve | HDC-HAD-25-TOVL1/16 | 1664850000 | 5 |
| 1 x Pg21 complete | HDC-HAD-25-TOVL1/21P | 1664860000 | 5 |
| 1 x Pg21 sleeve | HDC-HAD-25-TOVL1/21 | 1664870000 | 5 |
| 1 x Pg16 complete | HDC-HAD-25-TSVL1/16P | 1664720000 | 5 |
| 1 x Pg16 sleeve | HDC-HAD-25-TSVL1/16 | 1664730000 | 5 |
| 1 x Pg21 complete | HDC-HAD-25-TSVL1/21P | 1664740000 | 5 |
| 1 x Pg21 sleeve | HDC-HAD-25-TSVL1/21 | 1664750000 | 5 |

TOVL = Plug hood; Top cable entry, end locking

TSVL = Plug hood; Side cable entry, end locking

For accessories see section "Accessories"

Housings Group Size 5

Base housing HA-16

End locking, with/without Cover

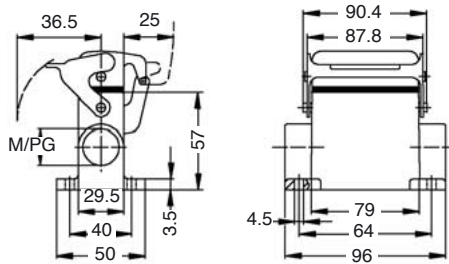


SVL



SDVL

Dimensions



| Version | Type | Cat. No. | Qty. |
|---|----------------------|------------|------|
| Standard housing, metric thread | | | |
| 2 x M 20 thread | HDC HA16 SVL 2xM20G | 1788770000 | 2 |
| 2 x M 25 thread | HDC HA16 SVL 2xM25G | 1788760000 | 2 |
| Standard housing with cover, metric thread | | | |
| 2 x M 20 thread | HDC HA16 SDVL 2xM20G | 1788790000 | 2 |
| 2 x M 25 thread | HDC HA16 SDVL 2xM25G | 1788780000 | 2 |
| Standard housing, PG thread | | | |
| 1 x Pg16 complete | HDC-HA-16-SVL1/16P | 1665040000 | 2 |
| 1 x Pg16 sleeve | HDC-HA-16-SVL1/16 | 1665050000 | 2 |
| 1 x Pg21 complete | HDC-HA-16-SVL1/21P | 1665080000 | 2 |
| 1 x Pg21 sleeve | HDC-HA-16-SVL1/21 | 1665090000 | 2 |
| 2 x Pg16 complete | HDC-HA-16-SVL2/16P | 1665060000 | 2 |
| 2 x Pg16 sleeve | HDC-HA-16-SVL2/16 | 1665070000 | 2 |
| 2 x Pg21 complete | HDC-HA-16-SVL2/21P | 1665100000 | 2 |
| Standard housing with cover, PG thread | | | |
| 1 x Pg16 complete | HDC-HA-16-SDVL1/16P | 1665280000 | 2 |
| 2 x Pg16 complete | HDC-HA-16-SDVL2/16P | 1665300000 | 2 |

SVL = Base housing, end locking
SDVL = Base housing with cover, end locking

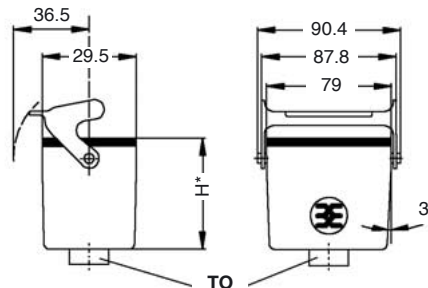
Coupling hood HA-16 / HAD-25

End locking



KVL

Dimensions



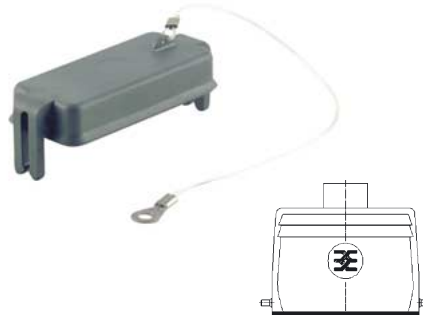
*HA = 53
HAD= 67

| Version | Type | Cat. No. | Qty. |
|--|----------------------|------------|------|
| Standard housing, metric thread | | | |
| 1 x M 25 thread | HDC HA16 KVL 1xM25G | 1788800000 | 5 |
| 1 x M 20 thread | HDC HAD25 KVL 1xM20G | 1788730000 | 2 |
| 1 x M 25 thread | HDC HAD25 KVL 1xM25G | 1788720000 | 2 |
| Standard housing, PG thread | | | |
| 1 x Pg16 complete | HDC-HA-16-KVL1/16P | 1665440000 | 5 |
| 1 x Pg16 sleeve | HDC-HA-16-KVL1/16 | 1665450000 | 5 |
| 1 x Pg16 complete | HDC-HAD-25-KVL1/16P | 1665480000 | 2 |
| 1 x Pg21 complete | HDC-HAD-25-KVL1/21P | 1665500000 | 2 |

KVL = Coupling hood, end locking

Cover for plug hood

Cover with cord



| Type | Cat. No. | Qty. |
|----------------------|------------|------|
| Plastic cover | | |
| HDC-HA-16-KDBF | 1665910000 | 5 |

Bulkhead housing HA-16

End locking / with/without Cover

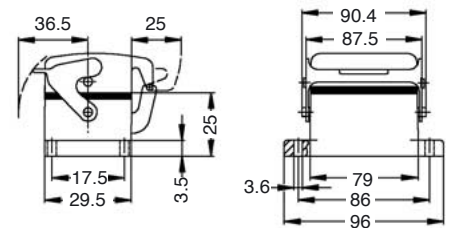


AVL



ADVL

Dimensions



| Version | Type | Cat. No. | Qty. |
|------------------------------------|----------------|------------|------|
| Standard housing | | | |
| | HDC-HA-16-AVL | 1664920000 | 5 |
| Standard housing with cover | | | |
| | HDC-HA-16-ADVL | 1664940000 | 5 |

AVL = Bulkhead housing, end locking

ADVL = Bulkhead housing with cover, end locking

Cover for housings with end locking

Cover with cord



| Type | Cat. No. | Qty. |
|----------------------|------------|------|
| Plastic cover | | |
| HDC-HA-16-KDBF | 1665900000 | 5 |

For accessories see section "Accessories"

Inserts Group Size 7

Housings Group Size 7

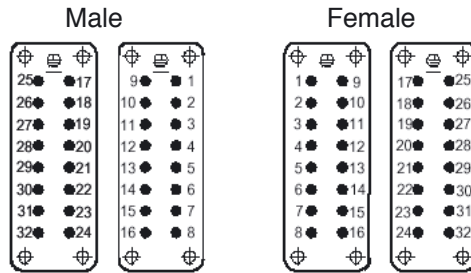
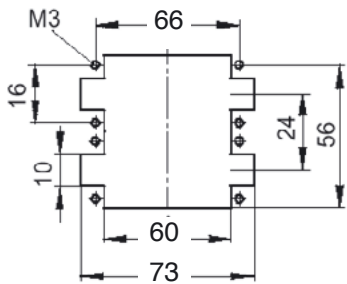
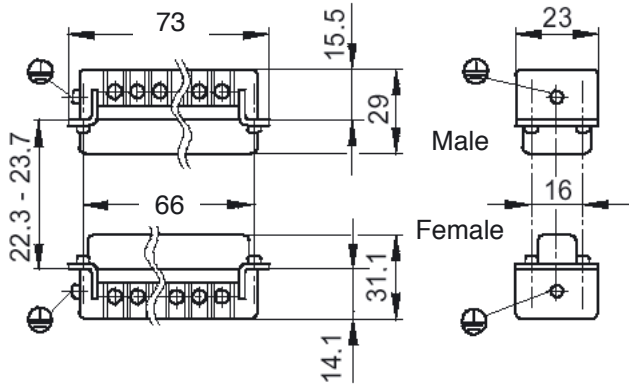
Screw connection HA-32

Plug hood HA-32

32-pole

250 V-/300 V-/max 16 A

Side locking / lower side



view from cable side

| Version | Type | Cat. No. | Qty. |
|---------|-------------------|------------|------|
| Male | HDC-HA-16SS | 1650770000 | 5 |
| Male | HDC-HA-16SS 17-32 | 1650880000 | 5 |
| Female | HDC-HA-16BS | 1650780000 | 5 |
| Female | HDC-HA-16BS 17-32 | 1650900000 | 5 |

Please order two inserts per housing

| Version | Type | Cat. No. | Qty. |
|--|----------------------|------------|------|
| Standard housing, metric thread | | | |
| 1 x M 25 thread | HDC HA32 TOVU 1xM25G | 1788000000 | 2 |
| 1 x M 32 thread | HDC HA32 TOVU 1xM32G | 1787990000 | 2 |
| 1 x M 25 thread | HDC HA32 TSVU 1xM25G | 1787960000 | 2 |
| 1 x M 32 thread | HDC HA32 TSVU 1xM32G | 1787950000 | 2 |
| Standard housing, PG thread | | | |
| 1 x Pg21 complete | HDC-HA-32-TOVU1/21P | 1665780000 | 2 |
| 1 x Pg21 sleeve | HDC-HA-32-TOVU1/21 | 1665790000 | 2 |
| 1 x Pg29 complete | HDC-HA-32-TOVU1/29P | 1665800000 | 2 |
| 1 x Pg29 sleeve | HDC-HA-32-TOVU1/29 | 1665810000 | 2 |
| 1 x Pg21 complete | HDC-HA-32-TSVU1/21P | 1665660000 | 2 |
| 1 x Pg21 sleeve | HDC-HA-32-TSVU1/21 | 1665670000 | 2 |
| 1 x Pg29 complete | HDC-HA-32-TSVU1/29P | 1665680000 | 2 |
| 1 x Pg29 sleeve | HDC-HA-32-TSVU1/29 | 1665690000 | 2 |

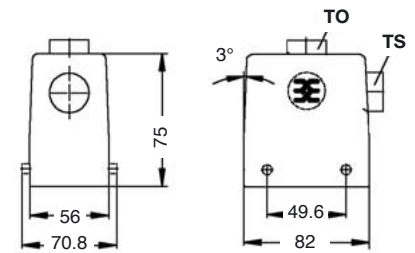


TOVU



TSVU

Dimensions



| Version | Type | Cat. No. | Qty. |
|---------|------|----------|------|
|---------|------|----------|------|

Standard housing, metric thread

| | | | |
|-----------------|----------------------|------------|---|
| 1 x M 25 thread | HDC HA32 TOVU 1xM25G | 1788000000 | 2 |
| 1 x M 32 thread | HDC HA32 TOVU 1xM32G | 1787990000 | 2 |
| 1 x M 25 thread | HDC HA32 TSVU 1xM25G | 1787960000 | 2 |
| 1 x M 32 thread | HDC HA32 TSVU 1xM32G | 1787950000 | 2 |

Standard housing, PG thread

| | | | |
|-------------------|---------------------|------------|---|
| 1 x Pg21 complete | HDC-HA-32-TOVU1/21P | 1665780000 | 2 |
| 1 x Pg21 sleeve | HDC-HA-32-TOVU1/21 | 1665790000 | 2 |
| 1 x Pg29 complete | HDC-HA-32-TOVU1/29P | 1665800000 | 2 |
| 1 x Pg29 sleeve | HDC-HA-32-TOVU1/29 | 1665810000 | 2 |
| 1 x Pg21 complete | HDC-HA-32-TSVU1/21P | 1665660000 | 2 |
| 1 x Pg21 sleeve | HDC-HA-32-TSVU1/21 | 1665670000 | 2 |
| 1 x Pg29 complete | HDC-HA-32-TSVU1/29P | 1665680000 | 2 |
| 1 x Pg29 sleeve | HDC-HA-32-TSVU1/29 | 1665690000 | 2 |

TOVU = Plug hood; Top cable entry,
Side locking / lower side

TSVU = Plug hood; Side cable entry,
side locking / lower side

For accessories see section "Accessories"

Housings Group Size 7

Base housing HA-32

Side locking



SVU

Coupling hood HA-32

Side locking



KVV

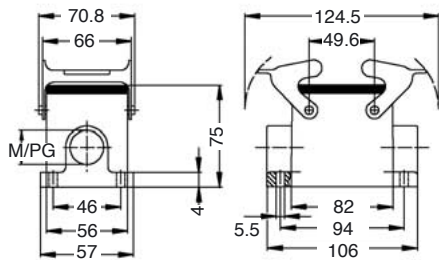
Bulkhead housing HA-32

Side locking

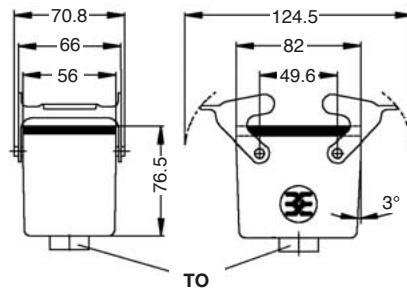


AVU

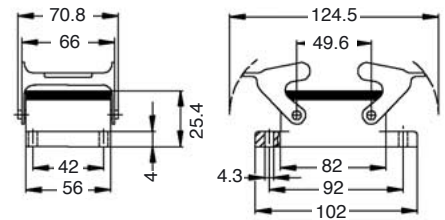
Dimensions



Dimensions



Dimensions



| Version | Type | Cat. No. | Qty. |
|--|---------------------|------------|------|
| Standard housing, metric thread | | | |
| 2 x M 25 thread | HDC HA32 SVU 2xM25G | 1788040000 | 2 |
| 2 x M 32 thread | HDC HA32 SVU 2xM32G | 1788030000 | 2 |
| Standard housing, PG thread | | | |
| 1 x Pg21 complete | HDC-HA-32-SVU1/21P | 1665960000 | 2 |
| 1 x Pg29 complete | HDC-HA-32-SVU1/29P | 1666000000 | 2 |
| 1 x Pg29 sleeve | HDC-HA-32-SVU1/29 | 1666010000 | 2 |
| 2 x Pg21 complete | HDC-HA-32-SVU2/21P | 1665980000 | 2 |
| 2 x Pg29 complete | HDC-HA-32-SVU2/29P | 1666020000 | 2 |

| Version | Type | Cat. No. | Qty. |
|--|---------------------|------------|------|
| Standard housing, metric thread | | | |
| 1 x M 25 thread | HDC HA32 KVV 1xM25G | 1788080000 | 2 |
| 1 x M 32 thread | HDC HA32 KVV 1xM32G | 1788070000 | 2 |
| Standard housing, PG thread | | | |
| 1 x Pg21 complete | HDC-HA-32-KVV1/21P | 1666120000 | 2 |
| 1 x Pg29 complete | HDC-HA-32-KVV1/29P | 1666140000 | 2 |

KVV = Coupling hood, side locking

| Version | Type | Cat. No. | Qty. |
|-------------------------|---------------|------------|------|
| Standard housing | | | |
| | HDC-HA-32-AVU | 1665860000 | 2 |

AVU = Bulkhead housing, side locking / lower side

Cover for plug hood

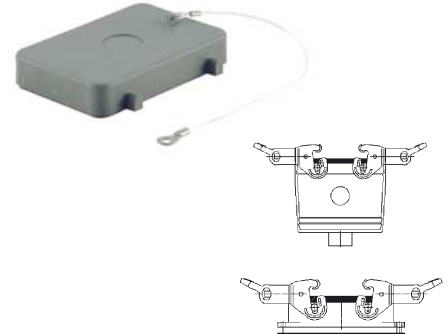
Cover with cord



| Type | Cat. No. | Qty. |
|----------------------|------------|------|
| Plastic cover | | |
| HDC-HA-32-KDF | 1665930000 | 2 |

Cover for housings with side locking

Cover with cord



| Type | Cat. No. | Qty. |
|----------------------|------------|------|
| Plastic cover | | |
| HDC-HA-32-KDBF | 1665920000 | 2 |

SVU = Base housing, side locking / lower side

For accessories see section "Accessories"

Housings Group Size 7

Plug hood HA-32

Side locking / upper side

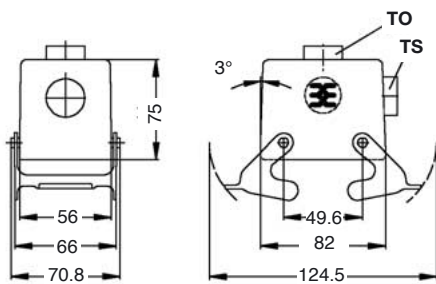


TOVO



TSVO

Dimensions



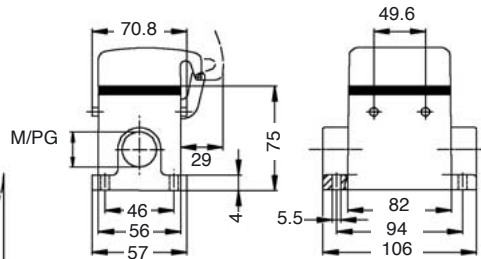
Base housing HA-32

Side locking / upper side



SDVO

Dimensions



| Version | Type | Cat. No. | Qty. |
|--|----------------------|------------|------|
| Standard housing, metric thread | | | |
| 1 x M 25 thread | HDC HA32 TOVO 1xM25G | 1788020000 | 2 |
| 1 x M 32 thread | HDC HA32 TOVO 1xM32G | 1788010000 | 2 |
| 1 x M 25 thread | HDC HA32 TSVO 1xM25G | 1787980000 | 2 |
| 1 x M 32 thread | HDC HA32 TSVO 1xM32G | 1787970000 | 2 |
| Standard housing, PG thread | | | |
| 1 x Pg21 complete | HDC-HA-32-TOVO1/21P | 1666360000 | 2 |
| 1 x Pg29 complete | HDC-HA-32-TOVO1/29P | 1666380000 | 2 |
| 1 x Pg21 complete | HDC-HA-32-TSVO1/21P | 1666240000 | 2 |
| 1 x Pg29 complete | HDC-HA-32-TSVO1/29P | 1666260000 | 2 |
| 1 x Pg29 sleeve | HDC-HA-32-TSVO1/29 | 1666270000 | 2 |

| Version | Type | Cat. No. | Qty. |
|---|----------------------|------------|------|
| Standard housing with cover, metric thread | | | |
| 2 x M 25 thread | HDC HA32 SDVO 2xM25G | 1788060000 | 2 |
| 2 x M 32 thread | HDC HA32 SDVO 2xM32G | 1788050000 | 2 |
| Standard housing with cover, PG thread | | | |
| 1 x Pg21 complete | HDC-HA-32-SDVO1/21P | 1666540000 | 2 |
| 1 x Pg21 sleeve | HDC-HA-32-SDVO1/21 | 1666550000 | 2 |
| 1 x Pg29 sleeve | HDC-HA-32-SDVO1/29 | 1666590000 | 2 |

TOVO = Plug hood; Top cable entry, side locking
 TSVO = Plug hood; Side cable entry, side locking

SDVO = Base housing with cover, side locking / upper side

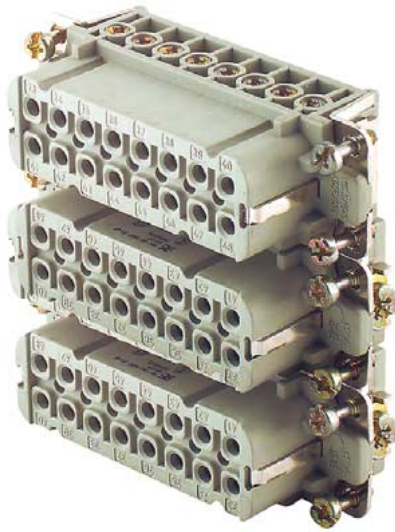
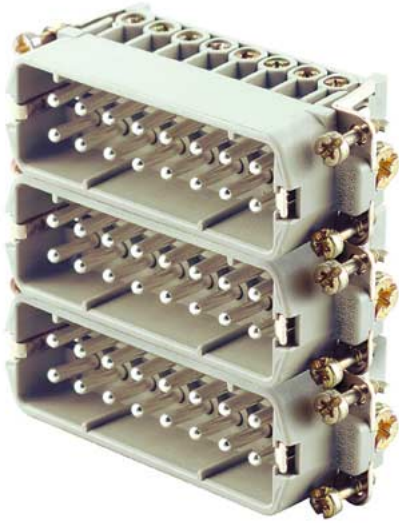
For accessories see section "Accessories"

Inserts Group Size 9

Screw connection HA-48

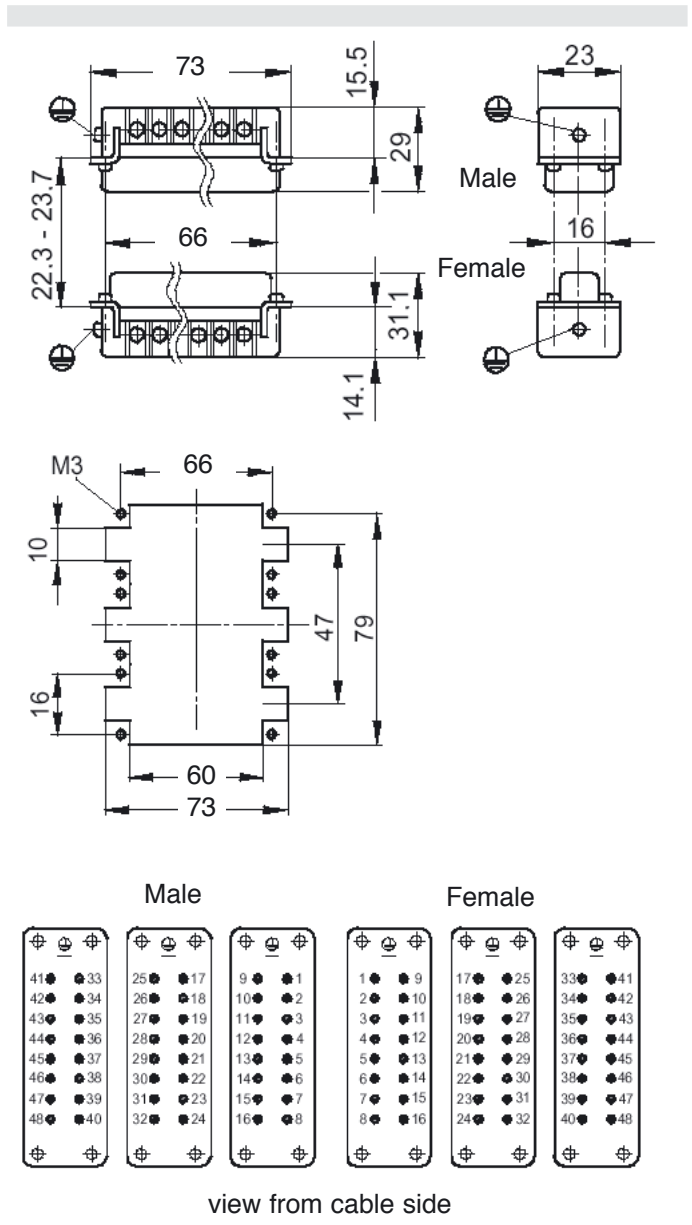
48-pole

250 V-/300 V-/max 16 A



| Version | Type | Cat. No. | Qty. |
|---------|-------------------|------------|------|
| Male | HDC-HA-16SS | 1650770000 | 5 |
| Male | HDC-HA-16SS 17-32 | 1650880000 | 5 |
| Male | HDC-HA-16SS 33-48 | 1650990000 | 5 |
| Female | HDC-HA-16BS | 1650780000 | 5 |
| Female | HDC-HA-16BS 17-32 | 1650900000 | 5 |
| Female | HDC-HA-16BS 33-48 | 1651020000 | 5 |

Please order two inserts per housing



For accessories see section "Accessories"

Housings Group Size 9

Plug hood HA-48

End locking / lower side

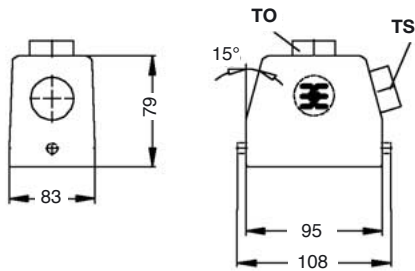


TOVL



TSVL

Dimensions



| Version | Type | Cat. No. | Qty. |
|--|----------------------|-------------------|------|
| Standard housing, metric thread | | | |
| 1 x M 32 thread | HDC HA48 TOVL 1xM32G | 1788560000 | 1 |
| 1 x M 32 thread | HDC HA48 TSVL 1xM32G | 1788550000 | 1 |
| Standard housing, PG thread | | | |
| 1 x Pg29 complete | HDC-HA-48-TOVL1/29P | 1666720000 | 1 |
| 1 x Pg29 sleeve | HDC-HA-48-TOVL1/29 | 1666730000 | 1 |
| 1 x Pg29 complete | HDC-HA-48-TSVL1/29P | 1666700000 | 1 |
| 1 x Pg29 sleeve | HDC-HA-48-TSVL1/29 | 1666710000 | 1 |

TOVL = Plug hood; Top cable entry, end locking / lower side
TSVL = Plug hood; Side cable entry, end locking / lower side

Base housing HA-48

End locking / with cover

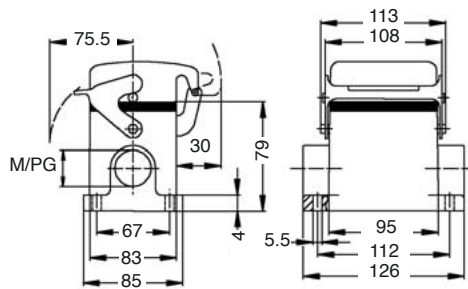


SVL



SDVL

Dimensions



| Version | Type | Cat. No. | Qty. |
|---|----------------------|-------------------|------|
| Standard housing, metric thread | | | |
| 2 x M 32 thread | HDC HA48 SVL 2xM32G | 1788570000 | 1 |
| Standard housing with cover, metric thread | | | |
| 2 x M 32 thread | HDC HA48 SDVL 2xM32G | 1788580000 | 1 |
| Standard housing, PG thread | | | |
| 1 x Pg29 complete | HDC-HA-48-SVL1/29P | 1666760000 | 1 |
| 1 x Pg29 sleeve | HDC-HA-48-SVL1/29 | 1666770000 | 1 |
| 2 x Pg29 complete | HDC-HA-48-SVL2/29P | 1666780000 | 1 |
| Standard housing with cover, PG thread | | | |
| 1 x Pg29 complete | HDC-HA-48-SDVL1/29P | 1666800000 | 1 |
| 1 x Pg29 sleeve | HDC-HA-48-SDVL1/29 | 1666810000 | 1 |
| 2 x Pg29 complete | HDC-HA-48-SDVL2/29P | 1666820000 | 1 |
| 2 x Pg29 sleeve | HDC-HA-48-SDVL2/29 | 1666830000 | 1 |

SVL = Base housing, end locking
SDVL = Base housing with cover, end locking

Bulkhead housing HA-48

End locking / with cover

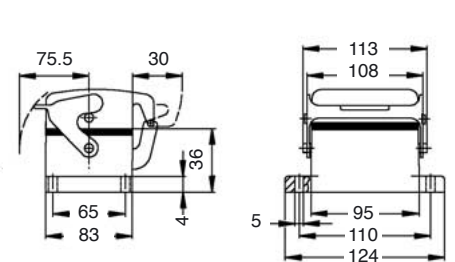


AVL



ADVL

Dimensions



| Version | Type | Cat. No. | Qty. |
|------------------------------------|----------------|-------------------|------|
| Standard housing | | | |
| sleeve | HDC-HA-48-AVL | 1666740000 | 1 |
| Standard housing with cover | | | |
| sleeve | HDC-HA-48-ADVL | 1666750000 | 1 |

AVL = Bulkhead housing, end locking
ADVL = Bulkhead housing with cover, end locking

For accessories see section "Accessories"

