

## HDC RockStar® HighPower Series 250/550A

# NEW



Weidmuller's new line of HDC RockStar HighPower Connectors is an innovative and maintenance-free pluggable solution for power transmission. The modular design creates a flexible construction process that allows multiple contact and shielding options to be produced for a wide range of power applications.

- Modular design offers application flexibility in one platform
- 1, 2, 3 and 4 pole configurable options
- Plug connector meets DIN EN 61373 Cat 2 requirement
- Electrical Rating: 4000V/3 -4/0AWG/250A & 550A
- Stainless Steel mounting hardware with screw-down locking mechanism
- 100% Submersible

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**Weidmüller** 



| Technical data                                          | Series HighPower 250A                                                      | Series HighPower 550A              |
|---------------------------------------------------------|----------------------------------------------------------------------------|------------------------------------|
| Standards                                               | DIN EN 50124-1<br>based DIN EN 61984<br>DIN EN 50155<br>DIN EN 61373 KAT 2 |                                    |
| No. of Poles                                            | 1-, 2-, 3-, 4- poles                                                       | 1-, 2-, 3- poles                   |
| Wire connection                                         | Crimp                                                                      | Crimp                              |
| Rated Current                                           | 250A                                                                       | 550A                               |
| Rated insulation voltage<br>(Maximum operating voltage) |                                                                            |                                    |
| AC Conductor - Conductor                                | 4000V (4800V)*                                                             | 4000V (4800V)*                     |
| AC Conductor - grounded housing                         | 3000V                                                                      | 3000V                              |
| DC Conductor - Conductor                                | 4000V (4800V)*                                                             | 4000V (4800V)*                     |
| DC Conductor - grounded housing                         | 3000V                                                                      | 3000V                              |
| Rated impulse voltage                                   |                                                                            |                                    |
| Conductor - Conductor                                   | 25 kV                                                                      | 25 kV                              |
| Conductor - grounded housing                            | 15 kV                                                                      | 15 kV                              |
| Overvoltage category                                    | OV 3                                                                       | OV 3                               |
| pollution degree                                        | PD 2 (PD 3) <sup>*1</sup>                                                  | PD 2 (PD 3) <sup>*1</sup>          |
| Material                                                |                                                                            |                                    |
| Isolation material                                      | PA66 glass<br>fiber-reinforced                                             | PA66 glass<br>fiber-reinforced     |
| Copper alloy                                            | Copper alloy,<br>passivated silver                                         | Copper alloy,<br>passivated silver |
| Flammability                                            |                                                                            |                                    |
| to UL94                                                 | V-0                                                                        | V-0                                |
| to NFF 16-101 / NFF 16-102                              | I3 F2                                                                      | I3 F2                              |
| DIN 5010 Part 2                                         | V-0                                                                        | V-0                                |
| Insulation resistance                                   | 10 <sup>10</sup> Ω                                                         | 10 <sup>10</sup> Ω                 |
| Temperature                                             | -50° C ... +120° C                                                         | -50° C ... +120° C                 |

**Note:**

\*4800V depending on the application

\*1 in the HDC housing the contacts are protected for additional pollution and condensation,  
the entire connector can be used with degree of PD 3

| Technical data         | Accessories     |
|------------------------|-----------------|
| Material               |                 |
| Mounting frame         | Stainless Steel |
| Shield lever           | Steel, zinc     |
| Finger safe protection | PA66            |
| Surface                |                 |
| Mounting frame         | Natural         |
| Shield lever           | Natural         |
| Finger safe protection | red             |

| Technical data               | Housings                                  |
|------------------------------|-------------------------------------------|
| Safety category DIN EN 60529 | IP68 in the locked housing                |
| Color                        | RAL 9005 (black)                          |
| Surface Treatment            | powder - Surtec                           |
| Locking element              |                                           |
| Screw                        | M8                                        |
| Material                     | Stainless Steel                           |
| Tightening Torque            | 11 Nm                                     |
| Gasket                       | silicon rubber                            |
| Temperature                  | -50° C ... +120° C                        |
| Material                     |                                           |
| Housing                      | Aluminum die casting, corrosion resistant |
| Surface mounting frame       | Stainless Steel                           |

| Technical data   | Cable glands                           |
|------------------|----------------------------------------|
| Material         |                                        |
| Cable glands     | nickel-plated brass or stainless steel |
| Sealing          | TPE                                    |
| Temperature      | -40° C ... +130° C                     |
| Protection class | IP68                                   |

## Crimp - contact (250A)

### Male

| Clamping range          | Designation        | Part No.   |
|-------------------------|--------------------|------------|
| 25²                     | HDC HP 250 M 25    | 1079690000 |
| 35²                     | HDC HP 250 M 35    | 1079680000 |
| 50²                     | HDC HP 250 M 50    | 1119080000 |
| 50² (Contact Isolation) | HDC HP 250 M 50 PE | 1220850000 |
| 70²                     | HDC HP 250 M 70    | 1119090000 |
| 95²                     | HDC HP 250 M 95    | 1119100000 |

### Female

| Clamping range          | Designation        | Part No.   |
|-------------------------|--------------------|------------|
| 25²                     | HDC HP 250 F 25    | 1079720000 |
| 35²                     | HDC HP 250 F 35    | 1079730000 |
| 50²                     | HDC HP 250 F 50    | 1079740000 |
| 50² (Contact Isolation) | HDC HP 250 F 50 PE | 1220840000 |
| 70²                     | HDC HP 250 F 70    | 1079750000 |
| 95²                     | HDC HP 250 F 95    | 1079770000 |

## Crimp - contact (550A)

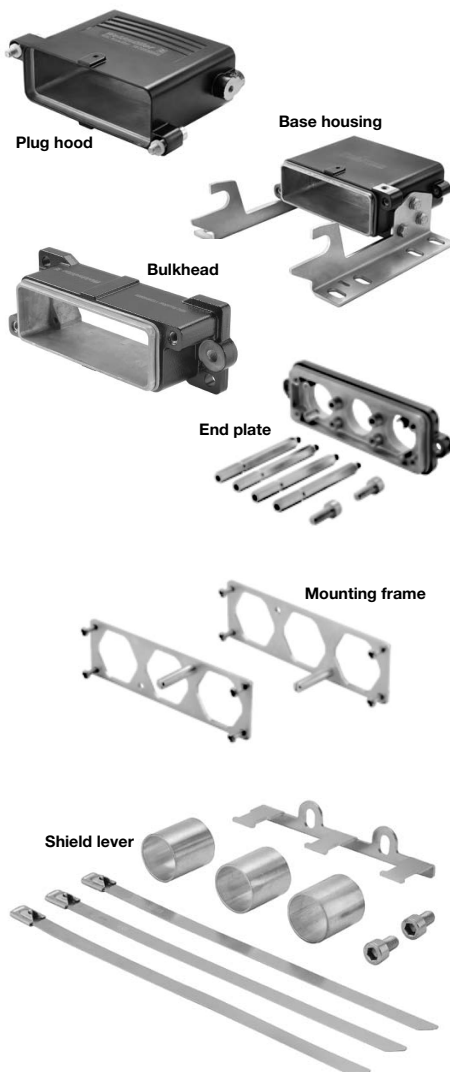
### Male

| Clamping range | Designation      | Part No.   |
|----------------|------------------|------------|
| 50²            | HDC HP 550 M 50  | 1157800000 |
| 95²            | HDC HP 550 M 95  | 1079790000 |
| 120²           | HDC HP 550 M 120 | 1079780000 |
| 150²           | HDC HP 550 M 150 | 1191100000 |
| 185²           | HDC HP 550 M 185 | 1120580000 |
| 240²           | HDC HP 550 M 240 | 1125900000 |

### Female

| Clamping range | Designation      | Part No.   |
|----------------|------------------|------------|
| 50²            | HDC HP 550 F 50  | 1177100000 |
| 95²            | HDC HP 550 F 95  | 1079610000 |
| 120²           | HDC HP 550 F 120 | 1079620000 |
| 150²           | HDC HP 550 F 150 | 1079630000 |
| 185²           | HDC HP 550 F 185 | 1079640000 |
| 240²           | HDC HP 550 F 240 | 1120600000 |

**Note:** In the version described here, the crimp contacts can be used for crimp connections with flexible, stranded and finely insulated copper wires (according to DIN 48201 Part 1 and DIN57 2905 VDE 0295) or with crimping inserts (according to DIN 48063 Part 1, 3 and 4). We would be glad to customize the crimp contact to fit your requirements.



## Housings (250A and 550A)

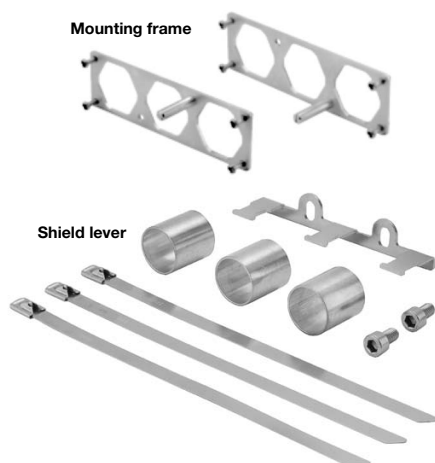
| Type                     | Designation             | Part No.   |
|--------------------------|-------------------------|------------|
| Plug hood housing        | HDC IP68 HP 24B TO      | 1079930000 |
| Base housing             | HDC IP68 HP 24B AS S    | 1079920000 |
| Bulkhead housing         | HDC IP68 HP 24B A       | 1120040000 |
| End plate without thread | HDC IP68 HP 24B MD      | 1119950000 |
| End plate 3 threads M40  | HDC IP68 HP 24B MD 3M40 | 1119970000 |
| End plate 3 threads M32  | HDC IP68 HP 24B MD 3M32 | 1119980000 |
| End plate 3 threads M25  | HDC IP68 HP 24B MD 3M25 | 1079910000 |
| End plate 4 threads M25* | HDC IP68 24B MD 4M25 T1 | 1160450000 |
| End plate 2 threads M40  | HDC IP68 HP 24B MD 2M40 | 1119990000 |
| End plate 2 threads M32  | HDC IP68 HP 24B MD 2M32 | 1120000000 |
| End plate 2 threads M25  | HDC IP68 HP 24B MD 2M25 | 1120010000 |
| End plate 4 threads M25* | HDC IP68 24B MD 4M25 T2 | 1220860000 |

\* Can only be used with 250A contacts

## Accessories (250A)

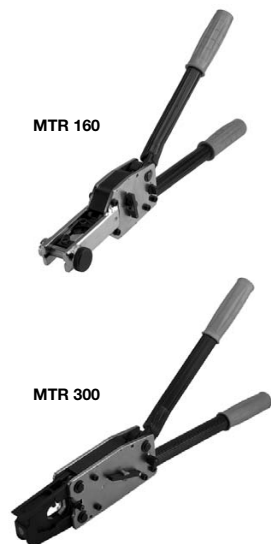
| Type                                        | Designation             | Part No.   |
|---------------------------------------------|-------------------------|------------|
| Mounting frame BG 3 for 1 HP250 Female      | HDC 06B HP250 MPL1 TYP1 | 1103680000 |
| Mounting frame BG 3 for 1 HP250 Male        | HDC 06B HP250 MPL1 TYP2 | 1103730000 |
| Mounting frame BG 8 for 2 HP250 Female      | HDC 24B HP250 MPL2 TYP1 | 1103690000 |
| Mounting frame BG 8 for 2 HP250 Male        | HDC 24B HP250 MPL2 TYP2 | 1103740000 |
| Mounting frame BG 8 for 3 HP250 Female      | HDC 24B HP250 MPL3 TYP1 | 1079640000 |
| Mounting frame BG 8 for 3 HP250 Male        | HDC 24B HP250 MPL3 TYP2 | 1103750000 |
| Mounting frame BG 8 for 3 HP250 Female + PE | HDC 24B HP250 MPL4PE T1 | 1212890000 |
| Mounting frame BG 8 for 3 HP250 Male + PE   | HDC 24B HP250 MPL4PE T2 | 1212910000 |
| Mounting frame BG 8 for 4 HP250 Female      | HDC 24B HP250 MPL4 TYP1 | 1160430000 |
| Mounting frame BG 8 for 4 HP250 Male        | HDC 24B HP250 MPL4 TYP2 | 1160440000 |
| Shield Lever Size 8 for 2 x 25²             | HDC 24B SL 2X25         | 1160410000 |
| Shield Lever Size 8 for 3 x 25²             | HDC 24B SL 3X25         | 1160390000 |
| Shield Lever Size 8 for 4 X 25²             | HDC 24B SL 4X25 T1      | 1220770000 |
| Shield Lever Size 8 for 4 X 25²             | HDC 24B SL 4X25 T2      | 1220820000 |
| Shield Lever Size 8 for 2 X 35²             | HDC 24B SL 2X35         | 1232740000 |
| Shield Lever Size 8 for 3 X 35²             | HDC 24B SL 3X35         | 1232720000 |
| Shield Lever Size 8 for 4 X 35²             | HDC 24B SL 4X35 T1      | 1232770000 |
| Shield Lever Size 8 for 4 X 35²             | HDC 24B SL 4X35 T2      | 1232790000 |
| Shield Lever Size 8 for 2 x 50²             | HDC 24B SL 2X50         | 1160420000 |
| Shield Lever Size 8 for 3 x 50²             | HDC 24B SL 3X50         | 1160400000 |
| Shield Lever Size 8 for 4 X 50²             | HDC 24B SL 4X50 T1      | 1220760000 |
| Shield Lever Size 8 for 4 X 50²             | HDC 24B SL 4X50 T2      | 1220810000 |
| Shield Lever Size 8 for 2 X 70²             | HDC 24B SL 2X70         | 1232750000 |
| Shield Lever Size 8 for 3 x 70²             | HDC 24B SL 3X70         | 1232730000 |
| Shield Lever Size 8 for 4 X 70²             | HDC 24B SL 4X70 T1      | 1232760000 |
| Shield Lever Size 8 for 4 x 70²             | HDC 24B SL 4X70 T2      | 1232780000 |
| Shield Lever Size 8 for 2 X 95²             | HDC 24B SL 2X95         | 1119900000 |
| Shield Lever Size 8 for 3 x 95²             | HDC 24B SL 3X95         | 1079650000 |
| Shield Lever Size 8 for 4 X 95²             | HDC 24B SL 4X95 T1      | 1220750000 |
| Shield Lever Size 8 for 4 X 95²             | HDC 24B SL 4X95 T2      | 1220790000 |

WSM - Metal Cable Tie tool Part No. 774470000



MTR 160

MTR 300



### Accessories (550A)

| Type                                         | Designation             | Part No.   |
|----------------------------------------------|-------------------------|------------|
| Mounting frame BG 8 for 2 HP 550 Female      | HDC 24B HP550 MPL2 TYP1 | 1130710000 |
| Mounting frame BG 8 for 2 HP 550 Male        | HDC 24B HP550 MPL2 TYP2 | 1130770000 |
| Mounting frame BG 8 for 3 HP 550 Female      | HDC 24B HP550 MPL3 TYP1 | 1130720000 |
| Mounting frame BG 8 for 3 HP 550 Male        | HDC 24B HP550 MPL3 TYP2 | 1130780000 |
| Shield Lever Size 8 for 3 x 95 <sup>2</sup>  | HDC HP 24B SL 3X95      | 1079650000 |
| Shield Lever Size 8 for 3 x 120 <sup>2</sup> | HDC HP 24B SL 3X120     | 1079650000 |
| Shield Lever Size 8 for 3 x 150 <sup>2</sup> | HDC 24B SL 3X150        | 1119880000 |
| Shield Lever Size 8 for 3 x 185 <sup>2</sup> | HDC 24B SL 3X185        | 1119880000 |
| Shield Lever Size 8 for 3 x 240 <sup>2</sup> | HDC 24B SL 3X240        | 1119890000 |
| Shield Lever Size 8 for 2 x 95 <sup>2</sup>  | HDC 24B SL 2X95         | 1119900000 |
| Shield Lever Size 8 for 2 x 120 <sup>2</sup> | HDC 24B SL 2X150        | 1119900000 |
| Shield Lever Size 8 for 2 x 150 <sup>2</sup> | HDC 24B SL 2X150        | 1119910000 |
| Shield Lever Size 8 for 2 x 185 <sup>2</sup> | HDC 24B SL 2X185        | 1119910000 |
| Shield Lever Size 8 for 2 x 240 <sup>2</sup> | HDC 24B SL 2X240        | 1119920000 |

WSM - Metal Cable Tie tool Part No. 774470000

### Accessories (250A & 550A)

| Type                                                          | Designation            | Part No.   |
|---------------------------------------------------------------|------------------------|------------|
| finger protection set HP 250                                  | HDC HP 250 SHOCKPROTEC | 1120130000 |
| finger protection set HP 550                                  | HDC HP 550 SHOCKPROTEC | 1120140000 |
| Cable Gland M25, Stainless Steel, clamping range 11-20        | VGM25-SS68 11-20 BG    | 1193570000 |
| Cable Gland M32, Stainless Steel, clamping range 15-25        | VGM32-SS68 15-25 BG    | 1193580000 |
| Cable Gland M40, Stainless Steel, clamping range 20-32        | VGM40-SS68 20-32 BG    | 1193590000 |
| Cable Gland M25, Brass, nickel - plated, clamping range 11-20 | VGM25-MS68 11-20 BG    | 1193600000 |
| Cable Gland M32, Brass, nickel - plated, clamping range 15-25 | VGM25-MS68 11-20 BG    | 1193610000 |
| Cable Gland M40, Brass, nickel - plated, clamping range 20-32 | VGM40-MS68 20-32 BG    | 1193620000 |

### Crimping Tool

| Type                                        | Designation             | Part No.   |
|---------------------------------------------|-------------------------|------------|
| Crimping tool 10 ... 240mm <sup>2</sup>     | MTR 160                 | 9017250000 |
| Crimp 25 <sup>2</sup> , Crimp width 7.0 mm  | MTR 160 25HEX           | 9020920000 |
| Crimp 35 <sup>2</sup> , Crimp width 7.0 mm  | MTR 160 35HEX, Die Set* | 9020930000 |
| Crimp 50 <sup>2</sup> , Crimp width 7.0 mm  | MTR 160 50HEX           | 9020940000 |
| Crimp 70 <sup>2</sup> , Crimp width 7.0 mm  | MTR 160 70HEX           | 9020950000 |
| Crimp 95 <sup>2</sup> , Crimp width 7.0 mm  | MTR 160 95HEX           | 9020960000 |
| Crimp 120 <sup>2</sup> , Crimp width 7.0 mm | MTR 160 120HEX          | 9020970000 |
| Crimp 150 <sup>2</sup> , Crimp width 7.0 mm | MTR 160 120HEX          | 9020980000 |
| Crimp 120 <sup>2</sup> , Crimp width 7.0 mm | MTR 160 120HEX          | 9020990000 |
| Crimp 120 <sup>2</sup> , Crimp width 7.0 mm | MTR 160 120HEX          | 9021000000 |
| Crimping tool 10 ... 300 mm <sup>2</sup>    | MTR 300                 | 9021390000 |
| Crimp 25 <sup>2</sup> , Crimp width 7.0 mm  | MTR 300 25HEX           | 9021450000 |
| Crimp 35 <sup>2</sup> , Crimp width 7.0 mm  | MTR 300 35HEX, Die Set* | 9021460000 |
| Crimp 50 <sup>2</sup> , Crimp width 7.0 mm  | MTR 300 50HEX           | 9021470000 |
| Crimp 70 <sup>2</sup> , Crimp width 7.0 mm  | MTR 300 70HEX           | 9021480000 |
| Crimp 95 <sup>2</sup> , Crimp width 7.0 mm  | MTR 300 95HEX           | 9022290000 |
| Crimp 120 <sup>2</sup> , Crimp width 7.0 mm | MTR 300 120HEX          | 9022300000 |
| Crimp 150 <sup>2</sup> , Crimp width 7.0 mm | MTR 300 120HEX          | 9022310000 |
| Crimp 120 <sup>2</sup> , Crimp width 7.0 mm | MTR 300 120HEX          | 9022320000 |
| Crimp 120 <sup>2</sup> , Crimp width 7.0 mm | MTR 300 120HEX          | 9022330000 |

\* Die Sets designed for copper tube cable lugs and connectors to DIN 46235.