

Item description

- Protected against mismatching and maintenance-free
- Push-in CAGE CLAMP® spring pressure connection technology allows solid conductors to be simply pushed into a unit
- Compact design with 4.4 mm pole spacing

Note:

All connectors for mounted installations (snap-in versions for lighting fixtures or devices, all types of PCB and distribution connectors) are factory-equipped with locking levers to ensure plugs and sockets are securely locked. Additional locking levers are only required for flying leads (plug /socket).

Safety information 1:

Application note for the U.S. market (USR): Some versions may also be used for current interruption in accordance with the UL certificate in select applications with currents below 5 A and voltages up to 600 V. For further information, please contact your local sales office.

Data

Electrical data

Note on Contact Resistance

approx. 1mΩ contact resistance

approx. 0.25mΩ contact transition plug/socket

Ratings per IEC/EN 60664-1

| | |
|---------------------------------|-------|
| Rated voltage (III / 3) | 400 V |
| Rated impulse voltage (III / 3) | 6 kV |
| Rated current | 13 A |

Approvals per UL 1977

| | |
|---|-------|
| Rated voltage per UL 1977 (factory wiring only) | 600 V |
| Rated current per UL 1977 (factory wiring only) | 12 A |

Connection data

| | |
|---|---|
| Connection technology | Push-in CAGE CLAMP® |
| Actuation type | Operating tool Push-in |
| Nominal cross section | 1.5 mm ² |
| Solid conductor | 0.25 ... 1.5 mm ² / 22 ... 16 AWG |
| Solid conductor, push-in termination | 0.75 ... 1.5 mm ² / 20 ... 16 AWG |
| Stranded conductor | 0.25 ... 1 mm ² / 22 ... 18 AWG |
| Fine-stranded conductor | 0.25 ... 1.5 mm ² / 22 ... 16 AWG |
| Fine-stranded conductor with ferrule with plastic collar | 0.25 ... 0.75 mm ² / 22 ... 20 AWG |
| Fine-stranded conductor with ferrule without plastic collar | 0.25 ... 0.75 mm ² / 22 ... 20 AWG |
| Strip length | 9 mm / 0.35 inch |
| Note (strip length) | see also packaging or instructions |
| No. of poles | 5 |
| Total number of connection points | 5 |
| Total number of potentials | 5 |
| Conductor entry direction to mating direction | 0° |

Geometrical Data

| | |
|-------------|----------------------|
| Pin spacing | 4.4 mm / 0.173 inch |
| Width | 23.6 mm / 0.929 inch |
| Height | 11.7 mm / 0.461 inch |
| Depth | 34.1 mm / 1.343 inch |

Mechanical data

| | |
|---|---|
| Coding | A |
| Mating force of a plug-in connection | approx. 20 ... 70 N (depending on pole number) |
| Retention force of a plug-in connection | When locked: > 80 N |
| Unmating force of a plug-in connection | when unlocked: approx. 20 ... 70 N (depending on pole number) |



Number of mating cycles

200, without resistive load

100, with resistive load $I_N = 16A$, tested (1.5mm²/AWG 16)

| | |
|--------------------------|--|
| Marking | N 1 2 3 |
| Protection class | IP20 |
| Note on protection class | Only in mated condition with strain relief housing (These compact connectors are not designed for use in open, easily accessible areas.) |
| Potential marking | N 1 2 3 |

Plug connection

| | |
|------------------------------------|-------------------------|
| Contact type (pluggable connector) | Female connector/socket |
| Connector connection type | for conductors |
| Mismating protection | Yes |
| Locking of plug-in connection | locking lever |
| Locking lever | no |

Material Data

| | |
|-----------------------------|---|
| Color | black |
| Insulating material | Polyamide 66 (PA 66) |
| Flammability class per UL94 | V0 |
| Clamping spring material | Chrome nickel spring steel (CrNi) |
| Contact material | Copper or copper alloy, surface-treated |
| Fire load | 0.112 MJ |
| Weight | 6.07 g |

Environmental Requirements



| | |
|---|---|
| Surrounding air (operating) temperature | -35 ... 85 °C |
| Processing temperature | -5 ... +40 °C |
| Continuous operating temperature | -35 ... +85 °C |
| Note on Continuous Service Temperature | Insulating parts for temperatures ≤ 105 °C |

Commercial data



| | |
|--------------------|---------------|
| Product Group | 20 (WINSTA) |
| Country of origin | PL |
| GTIN | 4055143548571 |
| Customs Tariff No. | 85366990990 |

Approvals / Certificates



Country specific Approvals

| Logo | Approval | Additional Approval Text | Certificate name |
|--|---------------------------------|--------------------------|------------------|
| | CCA DEKRA Certification B.V. | IEC 61535 | NL-49482 |
|  | CCA DEKRA Certification B.V. | EN 61535 | 71-102984 |
|  | CCA DEKRA Certification B.V. | EN 61535 | 2182129.01 |
| | CCA DEKRA Certification B.V. | IEC 61535 | NL-35632 |

Ship Approvals



| Logo | Approval | Additional Approval Text | Certificate name |
|--|--|--------------------------|------------------|
|  | DNV GL Det Norske Veritas, Germanischer Lloyd | - | TAE00001Z6 |
|  | DNV GL Det Norske Veritas, Germanischer Lloyd | - | TAE00001Z6 |

UL-Approvals

| Logo | Approval | Additional Approval Text | Certificate name |
|--|-------------------------------------|--------------------------|------------------|
|  | UL UL International Germany GmbH | UL 1977 | E45171 |
|  | UL UL International Germany GmbH | UL 1977 | E45171 |

Compatible products

Strain relief plate

| | | |
|--|---|---------|
|  | Item no.: 890-505 Strain relief housing; 5-pole; with locking clip; for 1 cable; 6.5 ... 10.5 mm; 45 mm | 890-505 |
|  | Item no.: 890-515 Strain relief housing; 5-pole; with locking clip; for 1 cable; 6.5 ... 10.5 mm; 45 mm | 890-515 |



assembling

| | | |
|--|--|---------|
|  | Item no.: 890-310 Mounting carrier; 2- to 5-pole; for flying leads | 890-310 |
|  | Item no.: 890-311 Mounting carrier; 2- to 5-pole; for flying leads | 890-311 |

Locking lever

| | | |
|---|---|---------|
|  | Item no.: 890-101 Locking lever; for manual operation | 890-101 |
|  | Item no.: 890-111 Locking lever; for flying leads; for tool operation | 890-111 |
|  | Item no.: 890-121 Locking lever; for manual operation | 890-121 |
|  | Item no.: 890-131 Locking lever; for flying leads; for tool operation | 890-131 |

tools

| | | |
|--|---|---------|
|  | Item no.: 210-719 Operating tool with partially insulated shaft; Type 1, blade (2.5 x 0.4) mm | 210-719 |
|  | Item no.: 890-385 Operating tool; 5-way | 890-385 |

shield connection

| | | |
|--|--|---------|
|  | Item no.: 890-526 Shield connecting plate; 5-pole; for sockets | 890-526 |
|--|--|---------|

Downloads

Documentation

Bid Text

| | | | |
|---------------------|-------------|---------|----------|
| 890-205 | Apr 4, 2012 | doc | Download |
| WINSTA MINI 5-polig | | 24.1 kB | |

CAD/CAE - Smart Data

CAD data

| | | |
|---------------------|-----|----------|
| 3D Download 890-205 | URL | Download |
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Subject to changes.
