M23 Power Double-Ended Cordset: Male straight to female straight, 12-pin, black body, 120 V AC/DC, 8 A; PUR black cable, $8 \times 0.5 \mathrm{~mm}^{2}+3 \times 1.0 \mathrm{~mm}^{2}$

## Product Description

M23 Power Double-Ended Cordset: Male straight to female straight, 12-pin, black body, 120 V AC/DC, 8 A; PUR black cable, $8 \times 0.5 \mathrm{~mm}^{2}+3 \times 1.0 \mathrm{~mm}^{2}$

## Technical Drawing



## Female



## Technical Specifications

Face View Side 1

| Pin 1 | Pin 2 | Pin 3 | Pin 4 | Pin 5 | Pin 6 | Pin 7 | Pin 8 | Pin 9 | Pin 10 | Pin 11 | Pin 12 |
| :--- | :--- | :--- | :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| white | green | yellow | grey | grey-pink | red-blue | white-green | brown-green | blue | blue (bridge to pin 9) | brown | green-yellow |

Face View Side 2

| Pin 1 | Pin 2 | Pin 3 | Pin 4 | Pin 5 | Pin 6 | Pin 7 | Pin 8 | Pin 9 | Pin 10 | Pin 11 | Pin 12 |
| :--- | :--- | :--- | :--- | :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| white | green | yellow | grey | grey-pink | red-blue | white-green | brown-green | blue | blue (bridge to pin 9) | brown | green-yellow |

Product Description

| Product Family: | Power Connector |
| :--- | :--- |
| Brand: | Lumberg Automation |
| Connector Type: | Cordset, double ended |
| Shielding: | Unshielded |
| Rated Voltage: | 125 V |
| Rated Impulse Voltage: | 1.5 kV |
| Operating Voltage: | $120 \mathrm{~V} \mathrm{AC/DC}$ |
| Rated Current*: | 8 A |

Technical Data Side 1

| Product Sub Family: | M23 Power |
| :---: | :---: |
| Type of Contact / Gender: | male |
| Connector Design: | straight |
| Attachment Type: | Coupling Nut |
| Number of Pins: | 12 |
| Insulation Resistance: | > 10^9 Ohm |
| Mating Cycles: | $\leq 100$ |
| Ambient Temperature (Operation)*: | $-25^{\circ} \mathrm{C}$ to $+80^{\circ} \mathrm{C}$ |
| Protection Degree / IP Rating**: | IP67 |
| Pollution Degree: | 3 acc. to DIN EN 60664-1 (VDE 0110-1) |
| Clearance / Creepage Distance: | acc. to DIN EN 60664-1 (VDE 0110-1) |
| Overvoltage Category: | II acc. to DIN EN 60664-1 (VDE 0110-1) |
| Contact Base Material: | CuZn |
| Contact Plating: | $\mathrm{Cu} / \mathrm{Au}$ |
| Contact Bearer Material: | PBT |
| Contact Bearer Color: | white |
| Flammability Class (Contact Bearer): | UL 94 V0 |
| Molded Body Material: | TPU |
| Molded Body Color: | black |
| Flammability Class (Molded Body): | UL 94-HB |
| Attachment Material: | CuZn, nickel-plated |
| O-Ring Material: | NBR |
| Note: | Do not connect / disconnect under load. |

Cable Data

| Cable Number: | 256 |
| :--- | :--- |
| Conductor Size: | $8 \times 0.5 \mathrm{~mm}^{2}+3 \times 1.0 \mathrm{~mm}^{2}$ |
| Number of Wires: | 11 |
| Minimal Bending Radius (Fixed Inst): | $>5 \times \mathrm{D}$ |
| Minimal Bending Radius (Flexible Inst): | $>10 \times \mathrm{D}$ |
| Cycles (Bending): | $>2 \mathrm{M}$ |
| Conductor material: | Pu |
| Cable Jacket Material: | black |
| Cable Jacket Color: | $\varnothing 9.30 \pm 0.20 \mathrm{~mm}$ |
| Cable Diameter D: | PP |
| Wire Insulation Material: | $8 \times \varnothing 1.45 \mathrm{~mm}+3 \times \varnothing 1.95 \mathrm{~mm}$ |
| Insulated Wire Diameter: | $-50^{\circ} \mathrm{C}$ to $+80^{\circ} \mathrm{C}$ |
| Ambient Temperature (Fixed Installation): | $-25^{\circ} \mathrm{C}$ to $+80^{\circ} \mathrm{C}$ |
| Ambient Temperature (Flex Installation): | $-25^{\circ} \mathrm{C}$ to $+60^{\circ} \mathrm{C}$ |
| Ambient Temperature (Drag Chain Inst): | AWM: 20549 |
| UL Cable Type: | DIN EN $60332-2-2, \mathrm{VDE} \mathrm{0482-332-2-2} ,\mathrm{IEC} \mathrm{60332-2-2} ,\mathrm{CSA} \mathrm{FT-2;} \mathrm{flame-retardant}$ |
| Flammability Class (Cable Jacket): |  |

Technical Data Side 2
Product Sub Family, Side 2: M23 Power

| Type of Contact / Gender, Side 2: | female |
| :--- | :--- |
| Connector Design, Side 2: | Exraight |
| Attachment Type, Side 2: | 12 |
| Number of Pins, Side 2: | $>10^{\wedge} 9$ Ohm |
| Insulation Resistance, Side 2: | $\leq 100$ |
| Mating Cycles, Side 2: | -25 ${ }^{\circ}$ C to $+80^{\circ}$ C |
| Ambient Temperature (Operation), Side 2*: |  |
| Protection Degree / IP Rating, Side 2**: | IP67 |
| Pollution Degree, Side 2: | 3 acc. to DIN EN 60664-1 (VDE 0110-1) |
| Clearance / Creepage Distance, Side 2: | acc. to DIN EN 60664-1 (VDE 0110-1) |
| Overvoltage Category, Side 2: | II acc. to DIN EN 60664-1 (VDE 0110-1) |
| Contact Base Material, Side 2: | CuZn |
| Contact Plating, Side 2: | Cu/Au |
| Contact Bearer Material, Side 2: | PBT |
| Contact Bearer Color, Side 2: | white |
| Flammability Class (Contact Bearer), Side 2: | UL 94 V0 |
| Molded Body Material, Side 2: | TPU |
| Molded Body Color, Side 2: | black |
| Flammability Class (Molded Body), Side 2: | UL 94-HB |
| Attachment Material, Side 2: | CuZn, nickel-plated |
| O-Ring Material, Side 2: | Do not connect / disconnect under load. |
| Note, Side 2: |  |

Safety \& Environmental Compliance

| RoHS Compliant: | yes |
| :--- | :--- |
| Resistances |  |
| Halogenfree: |  |
| Notes | ** only if mounted and locked in combination with Hirschmann / Lumberg Automation connector. |
| Protection Degree / IP Rating Note: | *Notice derating |
| Note Derating: | When the connector is unlocked and in risk of pollution the connector has to be covered with a protective cap $\geq$ IP54. |
| Particularities: |  |

## Variants

| Item \# | Item Description | Cable Length |
| :---: | :---: | :--- |
| 18569 | RSU 12-RKUF 12-256/5 M | 5 m |
| 16537 | RSU 12-RKUF 12-256/10 M | 10 m |
| 16268 | RSU 12-RKUF 12-256/20 M | 20 m |

## © 2021 Belden, Inc

All Rights Reserved.
 notice, and the listing of such information and specifications does not ensure product availability.

 negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.


 regulations based on their individual usage of the product.

