

Push Pull Power / Push Pull Power AIDA

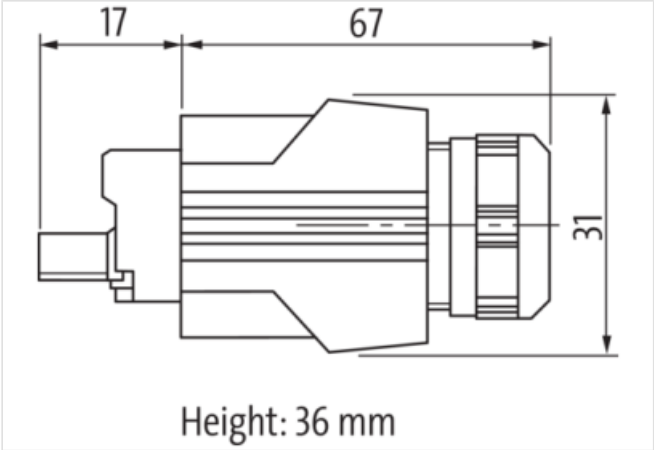
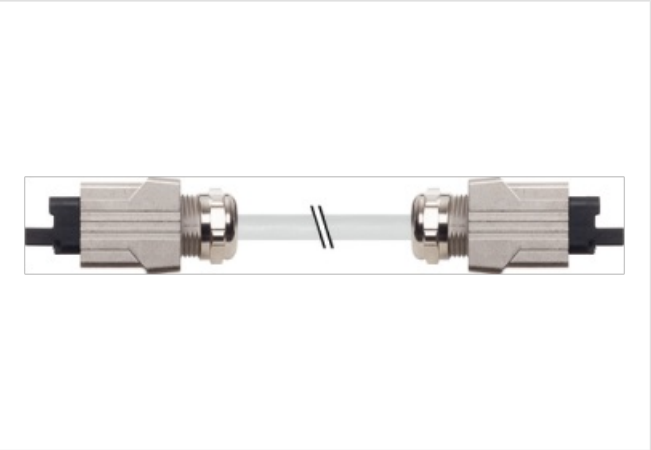
PUR 5x2.5 gy UL/CSA+drag ch. 30m

Art.No.: 7000-99641-9623000  
Weight: 5.903  
Country of origin: CZ  
Model designation: MSWPAL0-WPA-U962\_30.0

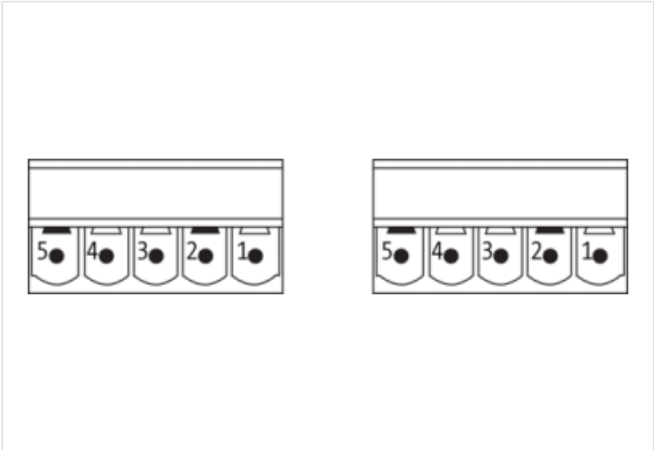
Male straight – male straight  
PPP – PPP, 5-pole  
Push Pull Power  
Further cable lengths on request.  
Plastic housings with good resistance against chemicals and oils.  
The resistance to aggressive media should be individually tested for your application. Further details on request.

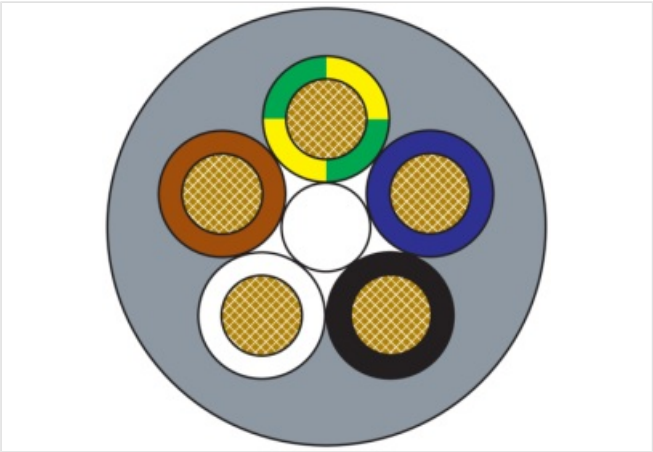
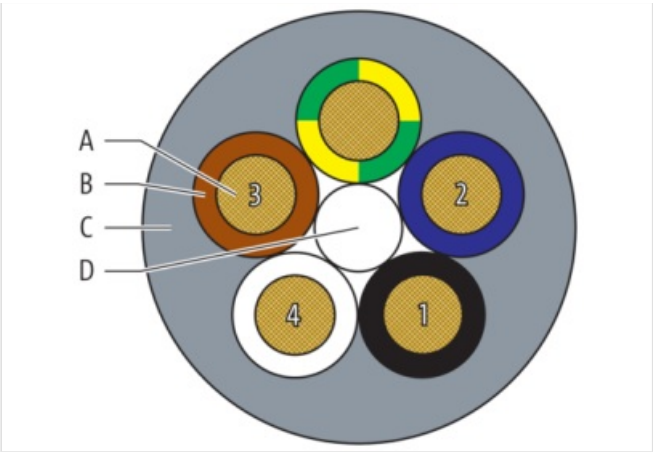
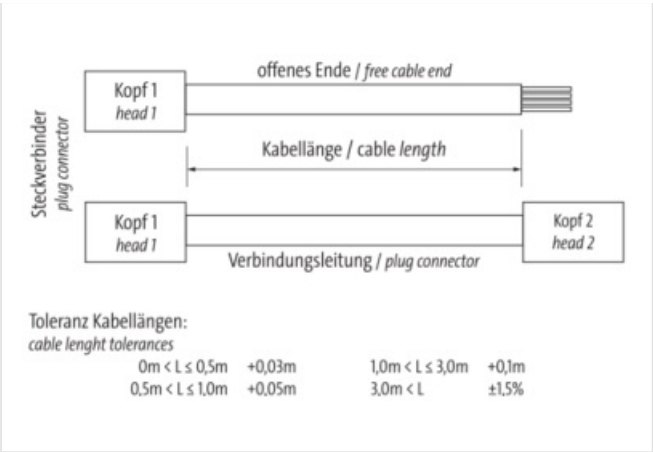
Link to Product

Illustration



|   |       |   |
|---|-------|---|
| 1 | BN 3  | 1 |
| 2 | BU 2  | 2 |
| 3 | BK 1  | 3 |
| 4 | WH 4  | 4 |
| 5 | GN YE | 5 |





Product may differ from Image



| Header                              |                                                                                                                     |
|-------------------------------------|---------------------------------------------------------------------------------------------------------------------|
| Material short text                 | MSWPAL0-WPA-U962_30.0                                                                                               |
| Cable length                        | 30,00 m                                                                                                             |
| Side 1                              |                                                                                                                     |
| Family construction form            | Push Pull Power                                                                                                     |
| No. of poles                        | 5                                                                                                                   |
| Gender                              | female                                                                                                              |
| Cable outlet                        | straight                                                                                                            |
| Degree of protection (EN IEC 60529) | IP67, IP65                                                                                                          |
| Side 2                              |                                                                                                                     |
| Family construction form            | Push Pull Power                                                                                                     |
| No. of poles                        | 5                                                                                                                   |
| Gender                              | female                                                                                                              |
| Cable outlet                        | straight                                                                                                            |
| Degree of protection (EN IEC 60529) | IP67, IP65                                                                                                          |
| Commercial data                     |                                                                                                                     |
| URL Webshop                         | <a href="https://shop.murrelektronik.com/7000-99641-9623000">https://shop.murrelektronik.com/7000-99641-9623000</a> |
| GTIN                                | 4048879113649                                                                                                       |

|                       |               |
|-----------------------|---------------|
| ECLASS-6.0            | 27279218      |
| ECLASS-6.1            | 27279218      |
| ECLASS-7.0            | 27279218      |
| ECLASS-7.1            | 27279218      |
| ECLASS-8.0            | 27279218      |
| ECLASS-8.1            | 27279218      |
| ECLASS-9.0            | 27060327      |
| ECLASS-9.1            | 27060311      |
| ECLASS-10.0.1         | 27060311      |
| ECLASS-10.1           | 27060311      |
| ECLASS-11.0           | 27060311      |
| ECLASS-11.1           | 27060311      |
| ECLASS-12.0           | 27060327      |
| ECLASS-13.0           | 27060311      |
| ECLASS-14.0           | 27060311      |
| ETIM-5.0              | EC002599      |
| ETIM-6.0              | EC002599      |
| ETIM-7.0              | EC002599      |
| ETIM-8.0              | EC002599      |
| customs tariff number | 85444290      |
| EAN                   | 4048879113649 |
| Packaging unit        | 1             |

**Electrical data | Supply**

|                                    |      |
|------------------------------------|------|
| Operating voltage AC max.          | 24 V |
| Operating voltage DC max.          | 24 V |
| Current operating per contact max. | 16 A |

**Device protection | Electrical**

|                                        |                   |
|----------------------------------------|-------------------|
| Degree of protection (EN IEC 60529)    | IP67, IP65        |
| Additional condition protection degree | inserted, screwed |
| Rated surge voltage signal contacts    | 4 kV              |

**Mechanical data | Material data**

|                  |                  |
|------------------|------------------|
| Material housing | Zinc die-casting |
| Coating housing  | nickel plated    |

**Mechanical data | Mounting data**

|                    |           |
|--------------------|-----------|
| Looking techniques | Push Pull |
|--------------------|-----------|

**Environmental characteristics | Climatic**

|                                        |                            |
|----------------------------------------|----------------------------|
| Operating temperature min.             | -40 °C                     |
| Operating temperature max.             | 85 °C                      |
| Additional condition temperature range | depending on cable quality |

**Important installation notes**

|                        |                                                                                                                                                       |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| Note on bending radius | <b>Attention:</b> Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces. |
| Note on strain relief  | Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.                                                   |

**Installation | Cable**

|                      |                                                 |
|----------------------|-------------------------------------------------|
| Cable identification | 962                                             |
| Cable Type           | 3                                               |
| Function cable       | Power                                           |
| Amount stranding     | 1                                               |
| Stranding            | 5 wires around core filler twisted              |
| Filler               | yes                                             |
| Wire arrangement     | green-yellow, blue 2, black 1, white 4, brown 3 |

|                                          |                                                                                                   |
|------------------------------------------|---------------------------------------------------------------------------------------------------|
| Cable weight                             | 190.3 g/m                                                                                         |
| Material wire insulation                 | PP                                                                                                |
| Amount wires                             | 5                                                                                                 |
| Outer diameter insulation                | 2.85 mm                                                                                           |
| Outer diameter tolerance core insulation | ± 0.1 mm                                                                                          |
| Shore hardness wire insulation           | 60 5 Shore D                                                                                      |
| Ingredient freeness wire insulation      | CFC-free, cadmium-free, silicone-free, halogen-free, lead-free                                    |
| Printing color of wire insulation        | white (isolation blue), white (isolation brown), white (isolation black), black (white isolation) |
| Amount strands (wire)                    | 140                                                                                               |
| Diameter of single wires                 | 0.15 mm                                                                                           |
| Conductor crosssection (wire)            | 2.5 mm <sup>2</sup>                                                                               |
| Material conductor wire                  | Stranded copper wire, bare                                                                        |
| Conductor type (wire)                    | strand class 6                                                                                    |
| Outer-diameter (jacket)                  | 9.5 mm                                                                                            |
| Tolerance outer diameter (sheath)        | ± 5 %                                                                                             |
| Material jacket                          | PUR                                                                                               |
| Shore hardness jacket                    | 90 5 Shore A                                                                                      |
| Freedom from ingredients (jacket)        | CFC-free, cadmium-free, silicone-free, halogen-free, lead-free                                    |
| Material property (jacket)               | matte, good machinability, abrasion-resistant, low adhesion                                       |
| Conductor resistance (wire)              | 7.98 Ω/km @ 20 °C                                                                                 |
| Nominal voltage AC max.                  | 1,000 V                                                                                           |
| Withstand voltage (wire - wire)          | 10 kV @ 60 s                                                                                      |
| Withstand voltage (wire - jacket)        | 10 kV @ 60 s                                                                                      |
| Current load capacity (standard)         | to DIN VDE 0298-4                                                                                 |
| Current load capacity min. wire          | 19.5 A                                                                                            |
| Min. operating temperature (static)      | -50 °C                                                                                            |
| Max. operating temperature (fixed)       | 80 °C / 90 °C @ 10000 h Operation                                                                 |
| Operating temperature min. (dynamic)     | -25 °C                                                                                            |
| Operating temperature max. (dynamic)     | 80 °C / 90 °C @ 10000 h Operation                                                                 |
| Bending radius (fixed)                   | 5 × Outer diameter                                                                                |
| Bending radius (dynamic)                 | 10 × Outer diameter                                                                               |
| No. of bending cycles (C-track)          | 5 Mio. @ 25 °C                                                                                    |
| Traversing distance (C-track)            | 5 m @ 25 °C                                                                                       |
| Travel speed (C-track)                   | 3.3 m/s @ 25 °C                                                                                   |
| Acceleration (C-track)                   | 5 m/s <sup>2</sup> @ 25 °C                                                                        |
| No. of torsion cycles                    | 5 Mio.                                                                                            |
| Torsion stress                           | 180 °C                                                                                            |
| Torsion speed                            | 35 cycles/min                                                                                     |