



**Product:** [RSWT 5L-RKWT 5L-1022](#)

M12 to M12 cordset, Industrial Power Applications, PUR grey cable, unshielded, male to female, angled, L-coded, 5-Pin (4+FE), 5x2.5 mm<sup>2</sup>

**Product Description**

M12 to M12 cordset, Industrial Power Applications, PUR grey cable, unshielded, AWM: 20939, male to female, angled, L-coded, 5-Pin (4+FE), 5x2.5 mm<sup>2</sup>, ≤ 60 V AC/DC operating voltage, rated current 24 A (20 A UL pending), -40 °C ... 125 °C (operating temp.), suited for IP65, IP67, IP69K environment, IEC 60664-1 (2020-05), UL 2237; cULus

**Technical Specifications**

**Face View Side 1**

| Pin 1 | Pin 2 | Pin 3 | Pin 4 | FE   |
|-------|-------|-------|-------|------|
| brown | white | blue  | black | pink |

**Face View Side 2**

| Pin 1 | Pin 2 | Pin 3 | Pin 4 | FE   |
|-------|-------|-------|-------|------|
| brown | white | blue  | black | pink |

**Product Description**

|                        |                       |
|------------------------|-----------------------|
| Product Family:        | Power Connector       |
| Brand:                 | Belden                |
| Connector Type:        | Cordset, double ended |
| Shielding:             | Unshielded            |
| Rated Voltage:         | 63 V                  |
| Rated Voltage (UL):    | 63 V                  |
| Rated Impulse Voltage: | 1.5 kV                |
| Operating Voltage:     | ≤ 60 V AC/DC          |
| Rated Current*:        | 24 A                  |
| Rated Current (UL)*:   | 16 A                  |

**Technical Data Side 1**

|                                   |                                    |
|-----------------------------------|------------------------------------|
| Product Sub Family:               | M12 Power                          |
| Type of Contact / Gender:         | male                               |
| Connector Design:                 | angled                             |
| Attachment Type:                  | Coupling Screw                     |
| Number of Pins:                   | 5(4+FE)                            |
| Contact Resistance:               | ≤ 10 mOhm                          |
| Insulation Resistance:            | > 10 <sup>9</sup> Ohm              |
| Mating Cycles:                    | ≤ 100                              |
| Ambient Temperature (Operation)*: | -40 °C ... 125 °C, notice derating |
| Protection Degree / IP Rating**:  | IP65, IP67, IP69K                  |
| Design Standard:                  | IEC 61076-2-111                    |
| Pollution Degree:                 | 3 acc. to IEC 60664-1              |
| Clearance / Creepage Distance:    | IEC 60664-1 (2020-05)              |
| Overvoltage Category:             | III acc. to IEC 60664-1            |
| Contact Base Material:            | CuNi                               |

|                                      |                                 |
|--------------------------------------|---------------------------------|
| Contact Plating:                     | Cu/Au                           |
| Contact Bearer Material:             | PBT GF                          |
| Contact Bearer Color:                | grey                            |
| Flammability Class (Contact Bearer): | UL 94 V-2                       |
| Molded Body Material:                | TPE                             |
| Molded Body Color:                   | black                           |
| Flammability Class (Molded Body):    | UL 94 HB                        |
| Attachment Material:                 | CuZn                            |
| Attachment Plating:                  | Cu/Ni                           |
| O-Ring Material:                     | FKM                             |
| Fastening Torque (Contact Screw):    | M 12x1: (60-65) Ncm, hand-tight |

### Cable Data

|   |   |
|---|---|
| Cable Number:   | 1022  |
| Number of Wires:  | 5   |
| Minimal Bending Radius (Fixed Inst):                      | > 4 x D   |
| Minimal Bending Radius (Flexible Inst):                   | > 7.5 x D   |
| Cycles (Bending):   | > 10 Mio, max. 50 m/s²  |
| Cycles (Torsion):   | > 5 Mio @ ± 30 °/1 m  |
| Conductor material:                                       | Cu  |
| Cable Jacket Material:                                    | PUR   |
| Cable Jacket Color:                                       | grey (RAL 7032)   |
| Cable Diameter D:   | ø 9.4 ±0,2  |
| Wire Insulation Material:                                 | PP  |
| Insulated Wire Diameter:                                  | ø 2.55 mm   |
| Ambient Temperature (Fixed Installation):                 | -30 °C ... 80 °C  |
| Ambient Temperature (Flex Installation):                  | -40 °C ... 125 °C   |
| Ambient Temperature (Fixed Installation short-term 100h): | -40 °C ... 80 °C  |
| Ambient Temperature (Drag Chain Inst):                    | -20 °C ... 60°C   |
| UL Cable Type:  | AWM: 20939  |
| Flammability Class (Cable Jacket):                        | VDE 0482-332-1-2, DIN EN 60332-1-2 / IEC 60332-1 / UL VW-1, CSA FT1 |

### Technical Data Side 2

|  |                                    |
|--|------------------------------------|
| Product Sub Family, Side 2:                  | M12 Power                          |
| Type of Contact / Gender, Side 2:            | female                             |
| Connector Design, Side 2:                    | angled                             |
| Attachment Type, Side 2:                     | Coupling Nut                       |
| Number of Pins, Side 2:                      | 5(4+FE)                            |
| Coding, Side 2:                              | L                                  |
| Contact Resistance, Side 2:                  | ≤ 10 mOhm                          |
| Insulation Resistance, Side 2:               | > 10*9 Ohm                         |
| Mating Cycles, Side 2:                       | ≤ 100                              |
| Ambient Temperature (Operation), Side 2*:    | -40 °C ... 125 °C, notice derating |
| Protection Degree / IP Rating, Side 2**:     | IP65, IP67, IP69K                  |
| Design Standard, Side 2:                     | IEC 61076-2-111                    |
| Pollution Degree, Side 2:                    | 3 acc. to IEC 60664-1              |
| Clearance / Creepage Distance, Side 2:       | IEC 60664-1 (2020-05)              |
| Overvoltage Category, Side 2:                | III acc. to IEC 60664-1            |
| Contact Base Material, Side 2:               | CuNi                               |
| Contact Plating, Side 2:                     | Cu/Au                              |
| Contact Bearer Material, Side 2:             | PBT GF                             |
| Contact Bearer Color, Side 2:                | grey                               |
| Flammability Class (Contact Bearer), Side 2: | UL 94 V-2                          |
| Molded Body Material, Side 2:                | TPE                                |
| Molded Body Color, Side 2:                   | black                              |
| Flammability Class (Molded Body), Side 2:    | UL 94 HB                           |

|   |                                 |
|---|---------------------------------|
| Attachment Material, Side 2:              | CuZn                            |
| Attachment Plating, Side 2:               | Cu/Ni                           |
| O-Ring Material, Side 2:                  | FKM                             |
| Fastening Torque (Contact Screw), Side 2: | M 12x1: (60-65) Ncm, hand-tight |

Approvals

|          |                |
|----------|----------------|
| UL-File: | E497237        |
| UL:      | UL 2237; cULus |
| VDE:     | -              |

Safety & Environmental Compliance

|                 |     |
|-----------------|-----|
| RoHS Compliant: | yes |
|-----------------|-----|

Resistances

|                 |                                       |
|-----------------|---------------------------------------|
| Halogenfree:    | DIN VDE 0472 T.815, IEC 60754-1       |
| Oil Resistance: | HD 22.10 Appendix A, DIN EN 60811-404 |

Notes

|                          |   |
|--------------------------|---|
| Note Derating:           | * Notice derating   |
| Product Characteristics: | To ensure ingress protection, please check the O-ring's position before connecting. Improperly positioned O-ring leads to ingress protection potential failure. |

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