

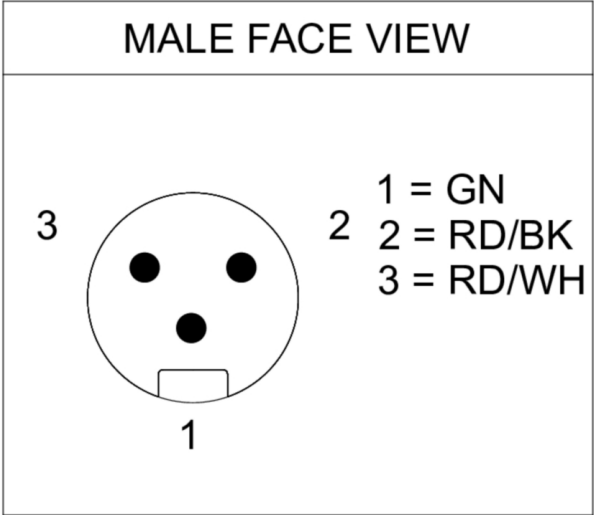
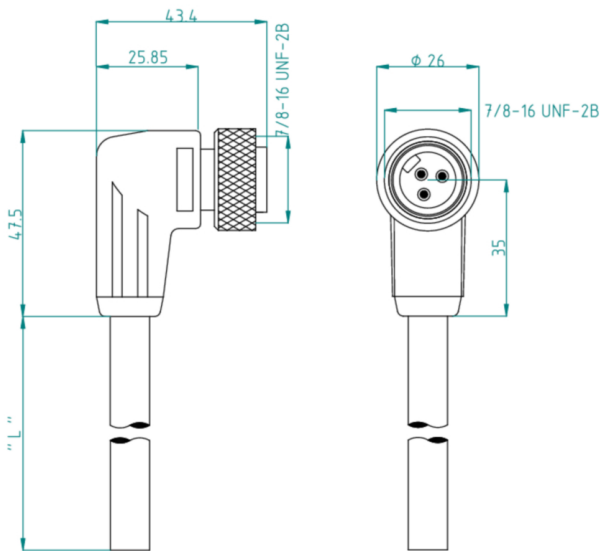


Product: [RSW 301-688](#)

7/8" - Male 90° | #Contacts: 3 | 300 V | Cable: Yellow (PVC); 18 AWG; AUTO | cURus

Product Description
Single-Ended Cordset | 7/8"- Male Angled | #Contacts: 3 | 300 V / 8 A | Cable: PVC Yellow; 3x18 AWG; AUTO | UL 2238; cURus

Technical Drawing



Technical Specifications

Face View

| Pin 1 | Pin 2 | Pin 3 |
|-------|-----------|-----------|
| green | red-black | red-white |

Technical Data

| | |
|----------------------------|-------------------------------|
| Product Family: | Power Connector |
| Side 1 Product Sub Family: | 7/8" (2, 3, 4, 5, 6 contacts) |
| Brand: | Lumberg Automation |
| Connector Type: | Cordset, single ended |

| | |
|-----------------------------------|---------------------------------------|
| Side 1 Type of Contact/Gender: | Pin Contact / Male |
| Connector Design: | 7/8" Male 3 Pole 90° |
| Number of Pins: | 3 |
| Coding, Side 1: | A |
| Shielding Type: | Unshielded |
| Attachment Type: | Female Thread (round coupling nut) |
| Voltage Rating: | 300 V |
| Current Rating: | 8 A |
| Contact Resistance: | ≤ 10 mOhm |
| Insulation Resistance: | > 10^9 Ohm |
| Mating Cycles: | ≤ 100 |
| Ambient Temperature (Operation)*: | - 40 °C to + 90°C |
| Protection Degree / IP Rating**: | IP65, IP67 |
| Pollution Degree: | 3 acc. to DIN EN 60664-1 (VDE 0110-1) |

Materials

| | |
|--------------------------------------|-------------------------------------|
| Contact Base Material: | Brass (CuZn) |
| Side 1 Contact Plating: | Copper-Silver-Gold-Alloy (Cu/Ag/Au) |
| Contact Bearer Material: | Thermoplastic polyurethane (TPU) |
| Contact Bearer Color: | Yellow |
| Flammability Class (Contact Bearer): | UL 94 HB |
| Molded Body Material: | Thermoplastic polyurethane (TPU) |
| Molded Body Color: | Yellow |
| Flammability Class (Molded Body): | UL 94 HB |
| Attachment Material: | Aluminum (Al) |
| Attachment Plating: | Anodized Black |

Additional Technical Data

| | |
|--------------------------------|--------------------------|
| Fastening Torque (Attachment): | 7/8": 70 Ncm, hand-tight |
|--------------------------------|--------------------------|

Cable Data

| | |
|---|--|
| Cable Number: | 688 |
| Conductor Size: | 18 AWG |
| Number of Wires: | 3 |
| Minimal Bending Radius (Fixed Inst): | > 5 x D |
| Minimal Bending Radius (Flexible Inst): | > 10 x D |
| Cycles (Bending): | > 1 mio |
| Conductor Material: | Cu |
| Cable Jacket Material: | Polyvinyl Chloride (PVC) |
| Cable Jacket Color: | Yellow |
| Cable Diameter D: | Ø 7.4 mm (.290") |
| Wire Insulation Material: | Polyvinyl Chloride (PVC) |
| Insulated Wire Diameter: | Ø 1.65 mm [0.065"] |
| Ambient Temperature (Fixed Installation): | - 40 °C to +105 °C |
| Ambient Temperature (Flex Installation): | - 15 °C to +105 °C |
| UL Cable Type: | UL: AWM 2661 / CSA: AWM I/II A/B |
| Flammability Class (Cable Jacket): | UL VW-1 / CSA FT-1 |
| Cable Characteristics: | Flexibility: Good Abrasion Resistance: Good Chemical Resistance: resists water, oil, acids, and alkalis Flame Retardance: Good Halogen-Free: No Mechanical Durability: Good (resists impact, tear, and flex) Environmental Suitability: Indoor, excellent balance of performance, cost, and versatility |

Approvals

| | |
|----------|---------|
| UL-File: | E315587 |
|----------|---------|

| | |
|-----|----------------|
| UL: | UL 2238; cURus |
|-----|----------------|

Safety & Environmental Compliance

| | |
|-----------------|-----|
| RoHS Compliant: | Yes |
|-----------------|-----|

Resistances

| | |
|-----------------|-----|
| Halogenfree: | No |
| Oil Resistance: | Yes |

Notes

| | |
|-------------------------------------|---|
| Note Derating: | * Notice derating |
| Protection Degree / IP Rating Note: | IP Rating tested according to IEC standard using combination of a Hirschmann or Lumberg Automation connector mounted and locked |

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