



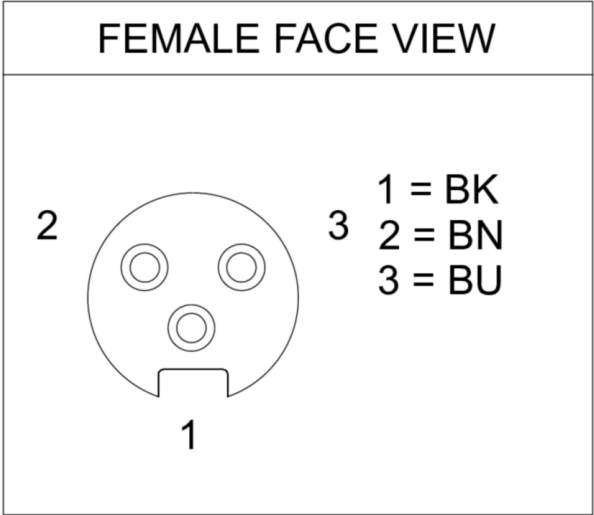
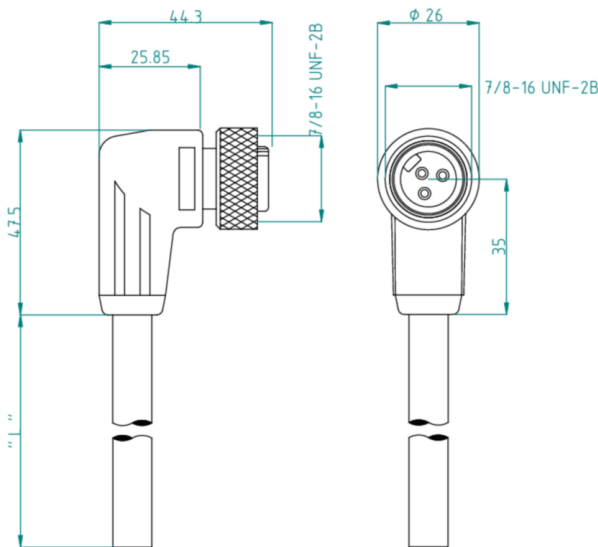
Product: [RKW 30-645](#)

7/8" - Female 90° | #Contacts: 3 | 300 V | Cable: Yellow (PUR); 18 AWG; IEC | cURus

Product Description

Single-Ended Cordset | 7/8"- Female Angled | #Contacts: 3 | 300 V / 8 A | Cable: PUR Yellow; 3x18 AWG; IEC | UL 2238; cURus

Technical Drawing



Technical Specifications

Face View

Pin 1	Pin 2	Pin 3
black	brown	blue

Technical Data

Product Family:	Power Connector
Product Sub Family:	7/8" (2, 3, 4, 5, 6 contacts)
Brand:	Lumberg Automation
Connector Type:	Cordset, single ended
Type of Contact / Gender:	Socket Contact / Female

Connector Design:	7/8" Female 3 Pole 90°
Number of Pins:	3
Coding:	A
Shielding:	Unshielded
Attachment Type:	Female Thread (round coupling nut)
Rated Voltage:	300 V
Rated Current*:	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)
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
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Cable Data

Cable Number:	645
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):	> 5 mio
Conductor material:	Cu
Cable Jacket Material:	Polyurethane (PUR)
Cable Jacket Color:	Yellow
Cable Diameter D:	Ø 5.59 mm (.220")
Wire Insulation Material:	Polyvinyl Chloride (PVC)
Insulated Wire Diameter:	Ø 1.65 mm (0.065")
Ambient Temperature (Fixed Installation):	- 40 °C to +80 °C
Ambient Temperature (Flex Installation):	- 20 °C to +80 °C
UL Cable Type:	AWM: 20233 AWM Class I/II A/B
Flammability Class (Cable Jacket):	UL VW-1 / CSA FT-1
Cable Characteristics:	Flexibility: Excellent Abrasion Resistance: Excellent Oil & Chemical Resistance: Excellent UV Resistance: Good to excellent Low Temp Performance: Excellent (flexible to -25°C) Flame Retardance: Varies Halogen-Free: Yes Mechanical Durability: High (resists impact, tear, and flex) Environmental Suitability: Outdoor, oily, wet, or rough environments

Approvals

UL-File:	E315587
UL:	UL 2238; cURus

Safety & Environmental Compliance

RoHS Compliant:	Yes
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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

Variants

Item #	Item Description	Cable Length
500001334	RKW 30-645/2M	2 m
500001335	RKW 30-645/5M	5 m
500001336	RKW 30-645/10M	10 m

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