




**Product:** [RS 120M-S4678](#) 

1-1/8" - Male 0° | #Contacts: 12 | 600 V | Cable: Yellow (TPE); 16 AWG; US | cURus

**Product Description**

Single-Ended Cordset | 1-1/8" - Male Straight | #Contacts: 12 | 600 V / 5 A | Cable: TPE Yellow; 12x16 AWG; US | UL 2238; cURus

**Technical Specifications**

**Face View**

Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8	Pin 9	Pin 10	Pin 11	Pin 12
orange	blue	white/black	red/black	green/black	orange/black	blue/black	black/white	green	red	white	black

**Technical Data**

Product Family:	Power Connector
Side 1 Product Sub Family:	1-1/8" (9, 10 ,12, 19 contacts)
Brand:	Lumberg Automation
Connector Type:	Cordset, single ended
Connector Sub Type:	Single-ended; Male Cordset
Side 1 Type of Contact/Gender:	Pin Contact / Male
Connector Design:	1-1/8"   Male   12 Pole   0°
Number of Pins:	12
Coding, Side 1:	A
Shielding Type:	Unshielded
Attachment Type:	Male Thread (coupling screw)
Replacement for:	PF_RS 120M-724
Voltage Rating:	600 V
Rated Voltage (UL):	600 V
Operating Voltage:	540 V AC/DC
Current Rating:	5 A
Rated Current (UL)*:	Power 5 A   Signal 5 A
Contact Resistance:	≤ 10 mOhm
Insulation Resistance:	> 10 <sup>9</sup> 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
Housing Color:	Yellow
Attachment Material:	Aluminum (Al)
Attachment Plating:	Anodized; Black

Additional Technical Data

Fastening Torque (Attachment):	1-1/8"   70 Ncm, hand-tight
Mating Connectors / Fitting to:	RKF 120M-624

Cable Data

Cable Number:	S4678
Conductor Size:	16 AWG
Number of Wires:	12
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:	Thermoplastic Elastomers (TPE)
Cable Jacket Color:	Yellow
Cable Diameter D:	Ø 13.21 mm [ 0.520" ]
Wire Insulation Material:	Polyvinyl Chloride (PVC)
Insulated Wire Diameter:	Ø 2.56 mm [ 0.101" ]
Ambient Temperature (Fixed Installation):	- 30 °C to + 90 °C
Ambient Temperature (Flex Installation):	+ 5 °C to + 90 °C
UL Cable Type:	UL: NEC Type TC-ER (UL 1277)
Flammability Class (Cable Jacket):	UL 1685, CSA FT4, IEEC 1202
Cable Characteristics:	Flexibility: Excellent   Abrasion Resistance: Very Good   Chemical Resistance: resists water, oils, greases, acids, alkalis, and solvents  Flame Retardance: Good   Halogen-Free: No   Mechanical Durability: Good (resists impact, tear, and flex)   Environmental Suitability: outdoor, oily, wet, or rough environments

Approvals

UL-File:	E315587
UL:	UL 2238; cURus

Safety & Environmental Compliance

REACH:	Compliant
RoHS Compliant:	Yes

Resistances

Halogenfree:	No
Oil Resistance:	Yes
UV 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
500004362	RS 120M-S4678/2M	2 m
540004008	RS 120M-S4678/4M	4 m
500004418	RS 120M-S4678/5M	5 m
540004009	RS 120M-S4678/6M	6 m

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