



Side 1 Type of Contact/Gender:	Socket Contact / Female
Connector Design:	Molded   M12 Female   Angled
Number of Pins:	4 (3+PE)
Coding, Side 1:	S
Shielding Type:	Shielded
Attachment Type:	Coupling Nut
Voltage Rating:	630 V
Rated Voltage (UL):	600 V
Rated Impulse Voltage:	1.5 kV
Operating Voltage:	600 V AC/DC
Current Rating:	16 A
Rated Current (UL)*:	16 A
Side 1 Contact Resistance:	≤ 10 mOhm
Insulation Resistance:	> 10 <sup>9</sup> Ohm
Mating Cycles:	≤ 100
Ambient Temperature (Operation)*:	- 40 °C to + 125 °C, notice derating
Protection Degree / IP Rating**:	IP65, IP67, IP69k
Side 1 Design Standard:	IEC 61076-2-111
Side 1 Pollution Degree:	3 acc. to IEC 60664-1
Clearance / Creepage Distance:	IEC 60664-1 (2020-05)
Overvoltage Category:	III acc. to IEC 60664-1

## Materials

Contact Base Material:	Copper Alloy (CuNi)
Side 1 Contact Plating:	Gold over Copper (Cu/Au)
Contact Bearer Material:	Glass-filled Polybutylene Terephthalate (PBT GF)
Contact Bearer Color:	Black
Flammability Class (Contact Bearer):	UL 94 V-2
Molded Body Material:	Thermoplastic Elastomer (TPE)
Molded Body Color:	Black
Flammability Class (Molded Body):	UL 94 HB
Attachment Material:	Copper Alloy (CuZn)
Attachment Plating:	Nickel (Ni)
Shielding Material:	CuZn, plating: Ni
O-Ring Material:	Fluoroelastomer (FKM)

## Additional Technical Data

Fastening Torque (Attachment):	M 12x1: (50-60) Ncm, hand-tight
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## Cable Data

Cable Number:	700
Conductor Size:	1.50 mm <sup>2</sup>
Conductor Resistance:	≤ 13.3 Ω/km
Number of Wires:	4
Minimal Bending Radius (Fixed Inst):	> 4 x D
Minimal Bending Radius (Flexible Inst):	> 7.5 x D
Cycles (Bending):	> 10 Mio, max. 50 m/s <sup>2</sup>
Cycles (Torsion):	> 5 Mio @ ± 30 °/1 m
Conductor Material:	Cu
Cable Jacket Material:	Polyurethane (PUR)
Cable Jacket Color:	Black
Cable Diameter D:	Ø 9.4   0.370"
Wire Insulation Material:	Polypropylene (PP)

Insulated Wire Diameter:	Ø 2.35 mm   0.092"
Inner Jacket:	TPE-O
Overall Shield (Cable):	Tinned Copper Braided Screen
Ambient Temperature (Fixed Installation):	- 40° C to + 80° C
Ambient Temperature (Flex Installation):	- 30° C to + 80° C
Ambient Temperature (Fixed Installation short-term 100h):	- 40° C to + 125° C
Ambient Temperature (Drag Chain Inst):	- 20° C to + 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
Cable Characteristics:	Flexibility: Excellent   Abrasion Resistance: Excellent   Oil & Chemical Resistance: Excellent   UV Resistance: Good to excellent   Low Temp Performance: Excellent (flexible to -40°C)   Flame Retardance: VDE 0482-332-1-2, DIN EN 60332-1-2 / IEC 60332-1 UL VW-1, CSA FT1   Halogen-Free: Yes, DIN VDE 0472 T.815   Mechanical Durability: High (resists impact, tear, and flex)   Environmental Suitability: Outdoor, oily, wet, or rough environments

## Approvals

UL-File:	E497237
UL:	UL 2237; cULus

## Safety & Environmental Compliance

RoHS Compliant:	Yes
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## Resistances

Halogenfree:	Yes DIN VDE 0472 T.815
Oil Resistance:	HD 22.10 Appendix A, DIN EN 60811-404

## 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
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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