



Product: [MachFlex™ Robotic Cable](#) 

Unshielded PUR robot cable for high dynamic bending and torsion motions, UL/cUL AWM 20940 certified

Product Description

Unshielded PUR robot cable for high dynamic bending and torsion motions, UL/cUL AWM 10866 and AWM 21330 certified

Technical Specifications

Product Overview

Suitable Applications:	Warehouse automation equipment, Industrial machinery and machine tools, Multi-axis articulated robots with twisting and bending motion in Automotive industry, In power chains or moving machine parts, Inside of dress packs of buckling arm robots and for use for gantry robots
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Construction Details

Conductor

Element Description	Stranding	Stranding Class	Material
1	Stranded	Class 6	BC - Bare Copper

Insulation

Element Description	Material	Color Code
1	PP - Polypropylene	As per UL 1581

Inner Jacket

Element Description
1

Outer Jacket

Material
PUR - Polyurethane

Electrical Characteristics

Electricals

Element Description
1

Voltage

UL Voltage Rating
1000 V (High Voltage test: 2KVac)

Mechanical Characteristics

Temperature

Continuous Flexing
-20 ~ 80

Bend Radius

Installation Min.
5XOD

Bend Radius Table Notes:	Flexing Min: 10XOD
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Standards and Compliance

Environmental Suitability:	Indoor/Outdoor, Indoor, Outdoor, Non-Halogenated, UV Resistance, Oil Resistance, Oil Resistance
Flammability / Reaction to Fire:	FT2, Horizontal flame test
CEC / C(UL) Compliance:	.
European Directive Compliance:	EU CE Mark, EU Directive 2015/863/EU (RoHS 2 amendment), EU Directive 2011/65/EU (RoHS 2)
Other Standard Compliance(s):	UL 758

Product Notes

Notes:	CSA C22.2 No.210, UL AWM Style 10866 (Single core cable) and UL AWM Style 21330, AWM I/II A/B
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History

Update and Revision:	Revision Number: 0.2 Revision Date: 08-26-2026
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