



**Product:** [MachFlex™ Robotic 21330 Cable](#) 

Unshielded PUR robot single and multi-core power cable

## Product Description

Unshielded PUR robot single and multi-core industrial power 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 |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### Construction Details

#### Conductor

| Stranding | Stranding Class | Material         | Notes               |
|-----------|-----------------|------------------|---------------------|
| Stranded  | Class 6         | BC - Bare Copper | Extra fine stranded |

#### Insulation

| Material           | Color Code     |
|--------------------|----------------|
| PP - Polypropylene | As per UL 1581 |

#### Outer Jacket

| Material           |
|--------------------|
| PUR - Polyurethane |

### Electrical Characteristics

#### Voltage

| UL Voltage Rating |
|-------------------|
| 1000 V            |

|                             |         |
|-----------------------------|---------|
| Voltage Rating Table Notes: | 2 kV ac |
|-----------------------------|---------|

### Mechanical Characteristics

#### Temperature

| Continuous Flexing |
|--------------------|
| -20°C to +80°C     |

#### Bend Radius

| Installation Min. |
|-------------------|
| 5XOD              |

|                          |                    |
|--------------------------|--------------------|
| Bend Radius Table Notes: | Flexing Min. 10XOD |
|--------------------------|--------------------|

### Standards and Compliance

|                                  |                                                                                 |
|----------------------------------|---------------------------------------------------------------------------------|
| Environmental Suitability:       | Indoor/Outdoor, Indoor, Outdoor, Non-Halogenated, UV Resistance, Oil Resistance |
| Flammability / Reaction to Fire: | 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: | UL AWM Style 10866 (single core cable), UL AWM Style 21330, CSA C22.2 No.210 AWM I/II A/B |
|--------|-------------------------------------------------------------------------------------------|

History

|                      |                                                |
|----------------------|------------------------------------------------|
| Update and Revision: | Revision Number: 0.2 Revision Date: 09-11-2026 |
|----------------------|------------------------------------------------|

Part Numbers

Variants

| Item #   |
|----------|
| BRD1Y08U |
| BRD1Y09U |
| BRD1Y10U |
| BRD1Y11U |
| BRD1Y12U |
| BRD1Y13U |
| BRD1Y14U |
| BRD1Y15U |
| BRD1Y16U |
| BRA3X08U |
| BRA4X08U |
| BRA3X09U |
| BRA4X09U |
| BRA3X10U |
| BRA4X10U |
| BRA3X11U |
| BRA4X11U |
| BRA3X12U |
| BRA4X12U |
| BRA3X13U |
| BRA4X13U |
| BRA3X14U |
| BRA4X14U |
| BRA3X15U |
| BRA4X15U |
| BRA3X16U |
| BRA4X16U |
| BRA3X17U |
| BRA4X17U |

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