



**Product:** [7200A](#)

MachFlex™, 1 Pr #24 Str BC, PO Ins, OS+TC Brd, PVC Jkt, CM

[Request Sample](#)

## Product Description

MachFlex™ for High Flex, 1 Pair 24AWG (41x40) Bare Copper, PO Insulation, Overall Beldfoil®+Tinned Copper Braid(85%) Shield, PVC Outer Jacket, CM

## Technical Specifications

### Product Overview

|                        |                         |
|------------------------|-------------------------|
| Suitable Applications: | Flex Data, RS232, RS485 |
|------------------------|-------------------------|

### Physical Characteristics (Overall)

#### Conductor

| AWG | Stranding | Material         | No. of Pairs |
|-----|-----------|------------------|--------------|
| 24  | 41x40     | BC - Bare Copper | 1            |

|                        |   |
|------------------------|---|
| Conductor Count:       | 2 |
| Total Number of Pairs: | 1 |

#### Insulation

| Material                 | Nominal Diameter |
|--------------------------|------------------|
| PE - Polyethylene (Foam) | 0.0705 in        |

#### Color Chart

| Number | Color        |
|--------|--------------|
| 1      | White & Blue |

#### Outer Shield Material

| Type  | Layer | Material           | Material Trade Name | Coverage [%] | Drainwire Material | Drainwire AWG | Drainwire Construction n x D |
|-------|-------|--------------------|---------------------|--------------|--------------------|---------------|------------------------------|
| Tape  | 1     | Alum / Poly        | Beldfoil®           | 100%         | TC - Tinned Copper | 24            | 41x40                        |
| Braid | 2     | Tinned Copper (TC) |                     | 85%          |                    |               |                              |

#### Outer Jacket Material

| Material                 | Nominal Diameter | Nominal Wall Thickness |
|--------------------------|------------------|------------------------|
| PVC - Polyvinyl Chloride | 0.261 in         | 0.045 in               |

### Electrical Characteristics

#### Capacitance

| Max. Capacitance Conductor to Conductor | Nom. Capacitance Conductor to Conductor |
|---|---|
| 15 pF/ft                                | 15 pF/ft                                |

#### Impedance

| Max. Differential Impedance (1MHz) |
|------------------------------------|
| 120 +/-15                          |

#### Delay

| Nominal Velocity of Propagation (VP) [%] |
|--|
| 72%                                      |

## Voltage

### UL Voltage Rating

300 V RMS

## Temperature Range

|                       |                |
|-----------------------|----------------|
| UL Temp Rating:       | 60°C           |
| Operating Temp Range: | -20°C To +60°C |

## Mechanical Characteristics

|                                       |                 |
|---------------------------------------|-----------------|
| Oil Resistance:                       | Yes             |
| Flex Cycle Rating:                    | 1 Million       |
| Bulk Cable Weight:                    | 35.6 lbs/1000ft |
| Max. Pull Tension:                    | 41 lbs          |
| Min Bend Radius (Continuous Flexing): | 3.6 in          |
| Min Bend Radius/Minor Axis:           | 2.6 in          |

## Standards

|                       |                  |
|-----------------------|------------------|
| NEC Articles:         | Article 800      |
| NEC/(UL) Compliance:  | CM               |
| CEC/C(UL) Compliance: | CM               |
| Other Compliance:     | RS Type: 232/485 |

## Applicable Environmental and Other Programs

|                                       |                               |
|---------------------------------------|-------------------------------|
| EU Directive 2000/53/EC (ELV):        | Yes                           |
| EU Directive 2011/65/EU (ROHS II):    | Yes                           |
| EU Directive 2012/19/EU (WEEE):       | Yes                           |
| EU Directive 2015/863/EU:             | Yes                           |
| EU Directive Compliance:              | EU Directive 2003/11/EC (BFR) |
| EU RoHS Compliance Date (yyyy-mm-dd): | 2005-10-01                    |
| MII Order #39 (China RoHS):           | Yes                           |

## Suitability

|                               |     |
|-------------------------------|-----|
| Suitability - Oil Resistance: | Yes |
|-------------------------------|-----|

## Flammability, LS0H, Toxicity Testing

|                    |                   |
|--------------------|-------------------|
| UL Flammability:   | UL1685 UL Loading |
| UL voltage rating: | 300 V RMS         |

## Plenum/Non-Plenum

|               |    |
|---------------|----|
| Plenum (Y/N): | No |
|---------------|----|

## Part Number

### Variants

| Item #        | Color     | Putup Type | Length   | UPC          |
|---------------|-----------|------------|----------|--------------|
| 7200A X4P500  | Green X4P | Reel       | 500 ft   | 612825182689 |
| 7200A X4P1000 | Green X4P | Reel       | 1,000 ft | 612825182672 |

|           |                        |
|-----------|------------------------|
| Footnote: | C - CRATE REEL PUT-UP. |
|-----------|------------------------|

## Product Notes

|        |   |
|--------|---|
| Notes: | 1 million flex cycles based on proper installation techniques in a C-track cable guide. |
|--------|---|

## History

|                      |  |
|----------------------|--|
| Update and Revision: | Revision Number: 0.300 Revision Date: 04-28-2020 |
|----------------------|--|

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