



Product: 7205A ☑

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, RS422 |
|------------------------------------|-------------------------|
| Physical Characteristics (Overall) | |

Conductor

| AWG | Stranding | Material | No. of Pairs |
|---------|--------------|------------------|--------------|
| 24 | 41x40 | BC - Bare Copper | 1 |
| Condu | ictor Count: | | |
| Total N | Number of Pa | airs: | |

Insulation

| Material | Nominal Diameter |
|--------------------------|------------------|
| PE - Polyethylene (Foam) | 0.0555 in |

Color Chart

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

Outer Shield

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

Outer Jacket

| Material | Nominal Diameter | Nominal Wall Thickness |
|--------------------------|------------------|------------------------|
| PVC - Polyvinyl Chloride | 0.232 in | 0.045 in |

Electrical Characteristics

Capacitance

| Capacitance | |
|---|--|
| Max. Capacitance Conductor to Conductor | lom. Capacitance Conductor to Conducto |
| 14 pF/ft | 4 pF/ft |
| Min Insulation Resistance: | 6.1 Megaohms/1000 |

Impedance

Max. Differential Impedance (1MHz)
100 +/-15

Delay

Nominal Velocity of Propagation (VP) [%]

Voltage

UL Voltage Rating 300 V RMS

Temperature Range

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

Mechanical Characteristics

| Oil Resistance: | Yes |
|--|-----------------|
| Flex Cycle Rating: | 1 Million |
| Bulk Cable Weight: | 33.4 lbs/1000ft |
| Max. Pull Tension: | 41 lbs |
| Min. Bend Radius (Continuous Flexing): | 3.5 in |
| Min. Bend Radius/Minor Axis: | 2.3 in |

Standards

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

Applicable Environmental and Other Programs

| EU Directive 2000/53/EC (ELV): | Yes |
|--|-------------------------------|
| EU Directive 2011/65/EU (RoHS 2): | Yes |
| EU Directive 2012/19/EU (WEEE): | Yes |
| EU Directive 2015/863/EU (RoHS 2 amendment): | Yes |
| EU Directive Compliance: | EU Directive 2003/11/EC (BFR) |
| 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 |
|---------------|----|

Related Part Numbers

Variants

| | itelli # | COIOI | Fut-op Type | Lengin | UFC |
|---|---------------|-----------|-------------|----------|--------------|
| 1 | 7205A X4P1000 | Green X4P | Reel | 1,000 ft | 612825182757 |
| i | Footnote: | | | | C - CI |

Product Notes

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

History

| Update and Revision: | Revision Number: 0.395 Revision Date: 02-03-2025 |
|----------------------|--|

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