



**Product:** [7205A](#)

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

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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
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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)	0.0555 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
Tape	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	
Max. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Conductor
14 pF/ft	14 pF/ft
Min Insulation Resistance: 6.1 Megaohms/1000	

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

Delay	
Nominal Velocity of Propagation (VP) [%]	

72%
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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
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Flammability, LS0H, Toxicity Testing

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

Plenum/Non-Plenum

Plenum (Y/N):	No
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Related Part Numbers

Variants

Item #	Color	Put-Up Type	Length	UPC
7205A X4P1000	Green X4P	Reel	1,000 ft	612825182757

Footnote:	C - CRATE REEL PUT-UP.
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Product Notes

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

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