



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
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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 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	TC - Tinned Copper		85 %			

Outer Jacket Material

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

Impedance

Max. Differential Impedance (1MHz)
100 +/-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:	33.4 lbs/1000ft
Max Recommended Pulling Tension:	41 lbs
Min Bend Radius (Continuous Flexing):	3.5 in
Min Bend Radius/Minor Axis:	2.3 in

Standards

NEC Articles:	800
NEC/(UL) Specification:	CM
CEC/C(UL) Specification:	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 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
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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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Part Number

Variants

Item #	Color	Putup 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: 0.304 Revision Date: 04-28-2020
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Belden believes this product to be in compliance with all applicable environmental programs as listed in the data sheet. The information provided is correct to the best of Belden's knowledge, information and belief at the date of its publication. This information is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. The Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.