



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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