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# Product: MRTA6P24S

MachFlex<sup>™</sup> Robotic Multi-Pair Control, 6 Pr 24 AWG Str TC, ETFE Ins, TCBS, PVC Outer Jkt

# **Product Description**

MachFlex™ Robotic Multi-Pair Control & Signal Cable, 6 Pair 24 AWG Stranded Tinned Copper, ETFE Insulation, Tinned Copper Braid Shield, PVC Outer Jacket

# **Technical Specifications**

#### **Product Overview**

Suitable Applications: MachFlex Robotic AWM 20276, Multi-Pair Cables are meeting the high demands of the robotic industry on the cabling of continuous moving machinery and the corresponding robotic components. These cables are specially designed for high mechanical requirements, they can withstand highly dynamic bending and torsional movements, and can be used in crucial industrial environments
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# **Construction Details**

Conductor
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Element	No. of Elements	Size	Stranding	Material
Pair(s)	6	24 AWG	Stranded	TC - Tinned Copper

#### Insulation

Material	Color Code
ETFE - Ethylene Tetrafluoroethylene	1. Black&Brown, 2. Black&Red, 3. Black&Orange, 4. Black&Yellow, 5. Black&Green, 6. Black&Blue

#### Outer Shield

Shield Type	Material
Braid	Tinned Copper (TC)

# Outer Jacket

Material PVC - Polyvinyl Chloride	e
Overall Cable Diameter (Nominal):	6.1 mm (0.24 in)

# **Electrical Characteristics**

#### Electricals

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94.2 Ohm/km (28.7 Ohm/1000ft)
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# Voltage

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UL Voltage Rating
30 V (Max. Operating Voltage)
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# **Mechanical Characteristics**

#### Temperature

Operating	
-40°C to +80°C	

 Table Notes:
 ±90° Bending: Min. 8 million cycles (Speed: 60 cycles/min.; Bending radius: 7.5D); Drag Chain: Min. 25 million cycles (Traversing distance: 350mm; Speed: 70 cycles/min; Bending radius: 6D); Vertical Torsion Test +/-180°/m: Min. 8 million cycles; Horizontal Torsion Test +/-90°/m: Min. 8 million cycles.

Bulk Cable Weight: 64.9 kg/km (43.6 lbs/1000ft)

#### **Standards and Compliance**

Environmental Suitability:	IndoorOutdoor, Indoor, Outdoor, Oil Resistance
Flammability / Reaction to Fire:	FT1, VW-1, IEC 60332-1-2
AWM Compliance:	AWM 20276
CEC / C(UL) Compliance:	CSA C22.2 No.210
European Directive Compliance:	EU Directive 2011/65/EU (RoHS 2)
APAC Compliance:	China RoHS II (GB/T 26572-2011)

### **Product Notes**

Notes: Suitability -Oil Resistant : IRM 902 120x18hrs, IRM 903 120x18hrs

#### **History**

Update and Revision: Revision Number: 0.30 Revision Date: 05-31-2024

#### **Part Numbers**

#### Variants

ltem #	Color	Length
MRTA6P24S G8U100M	Gray	100 m
MRTA6P24S G8U200M	Gray	200 m
MRTA6P24S G8U300M	Gray	300 m
MRTA6P24S 003100M	Orange	100 m
MRTA6P24S 003200M	Orange	200 m
MRTA6P24S 003300M	Orange	300 m

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