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# Product: <u>MRTA20P24S</u> ☑

MachFlex<sup>™</sup> Robotic Multi-Pair Control, 20 Pr 24 AWG Str TC, ETFE Ins, TCBS, PVC Outer Jkt

# **Product Description**

MachFlex™ Robotic Multi-Pair Control & Signal Cable, 20 Pair 24 AWG Stranded Tinned Copper, ETFE Insulation, Tinned Copper Braid Shield, PVC Outer Jacket

# **Technical Specifications**

# **Product Overview**

Suitable Applications:
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# **Construction Details**

#### Conductor

1	Element	No. of Elements	Size	Stranding	Material
	Pair(s)	20	24 AWG	Stranded	TC - Tinned Copper

## Insulation

Material	Color Code
ETFE - Ethylene	1. Black&Brown, 2. Black&Red, 3. Black&Orange, 4. Black&Yellow, 5. Black&Green, 6. Black&Blue, 7. Black&Purple, 8. Black&Grey, 9. Black&White, 10. Brown&Red, 11.
Tetrafluoroethylene	Brown&Orange, 12. Brown&Yellow, 13. Brown&Green, 14. Brown&Blue, 15. Brown&Purple, 16. Brown&Grey, 17. Brown&White, 18. Red&Orange, 19. Red&Yellow, 20. Red&Green

#### **Outer Shield**

Shield Type	Material
Braid	Tinned Copper (TC)

#### Outer Jacket

Material PVC - Polyvinyl Chloride	e
Overall Cable Diameter (Nominal):	9.4 mm (0.37 in)

# **Electrical Characteristics**

#### Electricals

Max. Conductor DCR 94.2 Ohm/km (28.7 Ohm/1000ft			
Voltage			
UL Voltage Rating 30 V (Max. Operating Voltage)	age)		

# **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: 167.4 kg/km (112.5 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
MRTA20P24S G8U100M	Gray	100 m
MRTA20P24S G8U200M	Gray	200 m
MRTA20P24S G8U300M	Gray	300 m
MRTA20P24S 003100M	Orange	100 m
MRTA20P24S 003200M	Orange	200 m
MRTA20P24S 003300M	Orange	300 m

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