



# Product: MRTB10C19S

MachFlex<sup>™</sup> Robotic Multi-Core Control, 10 C 19 AWG Str TC, ETFE Ins, TCBS, PVC Outer Jkt

# **Product Description**

MachFlex™ Robotic Multi-Core Control & Signal Cable, 10 Conductor 19 AWG Stranded Tinned Copper, ETFE Insulation, Tinned Copper Braid Shield, PVC Outer Jacket

# **Technical Specifications**

### **Product Overview**

Suitable Applications:		ese cables are			emands of the robotic industry on the cabling of continuous moving machinery and the corresponding robotic equirements, they can withstand highly dynamic bending and torsional movements, and can be used in crucial
Construction Det	ails				
Conductor					
Element No. of E	Elements Size	Stranding	Stranding Class	Material	
Conductor(s) 10	19 AW0	6 Stranded	Class 6	TC - Tinned Copper	
Insulation					
Material					Color Code
ETFE - Ethylene Tetraf	luoroethylene Bla	ck, White, Red	l, Green, Orange, E	Blue, White with Black	Strips, Red with Black Strips, Green with Black Strips, Orange with Black Strips
Outer Shield					
Shield Type Ma	aterial				

Tinned Copper (TC)

### Outer Jacket

Material PVC - Polyvinyl Chloride	9
Overall Cable Diameter (Nominal):	9.1 mm (0.36 in)

# **Electrical Characteristics**

#### Electricals

	Max	c. Co	ond	uct	or E	OCR
	-					

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28.2 Ohm/km (8.60 Ohm/1000ft)
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# Voltage

UL Voltage Rating 600 V (Max. Operating Voltage)

# **Mechanical Characteristics**

# Temperature

Oper	ating

40°C to +105°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: 146.6 kg/km (98.51 lbs/1000ft)

**Standards and Compliance** 

Environmental Suitability:	IndoorOutdoor, Indoor, Outdoor, Oil Resistance		
Flammability / Reaction to Fire:	FT1, FT4, VW-1, IEC 60332-1-2		
AWM Compliance:	AWM 2586		
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:

UL certification : UL 13. Suitability -Oil Resistant : IRM 902 120x18hrs, IRM 903 120x18hrs

#### **History**

Update and Revision: Revision Number: 0.20 Revision Date: 05-31-2024

### **Part Numbers**

#### Variants

Item #	Color	Length
MRTB10C19S G8U100M	Gray	100 m
MRTB10C19S G8U200M	Gray	200 m
MRTB10C19S G8U300M	Gray	300 m
MRTB10C19S 003100M	Orange	100 m
MRTB10C19S 003200M	Orange	200 m
MRTB10C19S 003300M	Orange	300 m

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