



# Product: MRTB5C15U

MachFlex™ Robotic Multi-Core Control, 5 C 15 AWG Str TC, ETFE Ins, PVC Outer Jkt

# **Product Description**

MachFlex™ Robotic Multi-Core Control & Signal Cable, 5 Conductor 15 AWG Stranded Tinned Copper, ETFE Insulation, PVC Outer Jacket

# **Technical Specifications**

## **Product Overview**

Suitable Applications: 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.	Suitable Applications:		
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# **Construction Details**

### Conductor

Conductor(s) 5 15 AWG Stranded Class 6 TC - Tinned Copper	Element	No. of Elements	Size	Stranding	Stranding Class	Material
	Conductor(s)	5	15 AWG	Stranded	Class 6	TC - Tinned Copper

### Insulation

Material	Color Code
ETFE - Ethylene Tetrafluoroethylene	Black, White, Red, Green, Orange

#### Outer Jacket

Material PVC - Polyvinyl Chloride	
Overall Cable Diameter (Nominal):	8.6 mm (0.34 in)

### **Electrical Characteristics**

#### Electricals

Max. Conductor DCR	
9.9 Ohm/km (3.0 Ohm/1000ft)	

#### Voltage

UL Voltage Rating 600 V (Max. Operating Voltage)

# **Mechanical Characteristics**

Temperature
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Operating   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:	148 kg/km (99.5 lbs/1000ft)
Standards and Co	ompliance
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: 0.22 Revision Date: 05-31-2024

### **Part Numbers**

#### Variants

ltem #	Color	Length
MRTB5C15U G8U100M	Gray	100 m
MRTB5C15U G8U200M	Gray	200 m
MRTB5C15U G8U300M	Gray	300 m
MRTB5C15U 003100M	Orange	100 m
MRTB5C15U 003200M	Orange	200 m
MRTB5C15U 003300M	Orange	300 m

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