



# Product: MRTC6C19U ☑

MachFlex<sup>™</sup> Robotic Multi-Core Control, 6 C 19 AWG Str TC, ETFE Ins, PVC Outer Jkt

# **Product Description**

MachFlex™ Robotic Multi-Core Control & Signal Cable, 6 Conductor 19 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
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# **Construction Details**

#### Conductor

Openstructure (a) 0 To Trans d Opens d a d Opens 0 TO Trans d Open	Element	No. of Elements	Size	Stranding	Stranding Class	Material
Conductor(s) 6 19 AWG Stranded Class 6 TC - Tinned Cop	Conductor(s)	6	19 AWG	Stranded	Class 6	TC - Tinned Copper

### Insulation

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

#### Outer Jacket

Material PVC - Polyvinyl Chloride	
Overall Cable Diameter (Nominal):	6.9 mm (0.27 in)

### **Electrical Characteristics**

#### Electricals

Max. Conductor DCR
29.1 Ohm/km (8.87 Ohm/1000ft)

#### Voltage

UL Voltage Rating 300 V (Max. Operating Voltage)

# **Mechanical Characteristics**

#### Temperature

remperature	
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:	85.9 kg/km (57.7 lbs/1000ft)
Standards and C	ompliance
Environmental Suitability:	IndoorOutdoor, Indoor, Outdoor, Oil Resistance

Flammability / Reaction to Fire:	FT1, FT4, VW-1, IEC 60332-1-2
AWM Compliance:	AWM 2517
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: 0.25 Revision Date: 05-31-2024

### **Part Numbers**

#### Variants

ltem #	Color	Length
MRTC6C19U G8U100M	Gray	100 m
MRTC6C19U G8U200M	Gray	200 m
MRTC6C19U G8U300M	Gray	300 m
MRTC6C19U 003100M	Orange	100 m
MRTC6C19U 003200M	Orange	200 m
MRTC6C19U 003300M	Orange	300 m

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