



Product: MRTC6C17U ☑

MachFlex[™] Robotic Multi-Core Control, 6 C 17 AWG Str TC, ETFE Ins, PVC Outer Jkt

Product Description

MachFlex™ Robotic Multi-Core Control & Signal Cable, 6 Conductor 17 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

Element	No. of Elements	Size	Stranding	Stranding Class	Material
Conductor(s)	6	17 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):	7.7 mm (0.30 in)

Electrical Characteristics

Electricals

Max. Conductor DCR
18.3 Ohm/km (5.58 Ohm/1000ft)

Voltage

UL Voltage Rating 300 V (Max. Operating Voltage)

Mechanical Characteristics

Temperature

Operating -40°C to +105°C	
-40 C 10 + 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:	113.5 kg/km (76.27 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: 0.23 Revision Date: 12-19-2023

Part Numbers

Variants

Item #	Color	Length
MRTC6C17U G8U100M	Gray	100 m
MRTC6C17U G8U200M	Gray	200 m
MRTC6C17U G8U300M	Gray	300 m
MRTC6C17U 003100M	Orange	100 m
MRTC6C17U 003200M	Orange	200 m
MRTC6C17U 003300M	Orange	300 m

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