



Product: MRTB8C19U ☑

MachFlex[™] Robotic Multi-Core Control, 8 C 19 AWG Str TC, ETFE Ins, PVC Outer Jkt

Product Description

MachFlex™ Robotic Multi-Core Control & Signal Cable, 8 Conductor 19 AWG Stranded Tinned Copper, ETFE Insulation, PVC Outer Jacket

Technical Specifications

Product Overview

Suitable Applications:			se cables are		are meeting the high o I for high mechanical r
Constructi	on Details				
Conductor					
Element	No. of Eleme	nts Size	Stranding	Stranding Class	Material
Conductor(s)	8	19 AWG	Stranded	Class 6	TC - Tinned Copper
Insulation					
Material					Color Code
ETFE - Ethyle	ne Tetrafluoro	thylene Blad	k, White, Re	d, Green, Orange, E	Blue, White with Black

Material PVC - Polyvinyl Chloride Overall Cable Diameter (Nominal): 8.1 mm (0.32 in)

Electrical Characteristics

Electricals

Max. Conductor DCR
28.2 Ohm/km (8.60 Ohm/1000ft)

Voltage

UL Voltage Rating 600 V (Max. Operating Voltage)

Mechanical Characteristics

Temperature

· omporataro	
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:	106.5 kg/km (71.56 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 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
MRTB8C19U G8U100M	Gray	100 m
MRTB8C19U G8U200M	Gray	200 m
MRTB8C19U G8U300M	Gray	300 m
MRTB8C19U 003100M	Orange	100 m
MRTB8C19U 003200M	Orange	200 m
MRTB8C19U 003300M	Orange	300 m

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