



Product: MRTB10C17S

MachFlex[™] Robotic Multi-Core Control, 10 C 17 AWG Str TC, ETFE Ins, TCBS, PVC Outer Jkt

Product Description

MachFlex™ Robotic Multi-Core Control & Signal Cable, 10 Conductor 17 AWG Stranded Tinned Copper, ETFE Insulation, Tinned Copper Braid Shield, PVC Outer Jacket

Technical Specifications

Product Overview

	ciview						
Suitable Applic	ations: comp	MachFlex Robotic AWM 2586, Multi-Core Cables are meeting the high demands of the robotic industry on the cabling of continuous moving machinery and the corresponding robotic 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.					
Constructio	on Details						
Conductor							
Element	No. of Element	s Size	Stranding	Stranding Class	Material		
Conductor(s)	10	17 AWG	Stranded	Class 6	TC - Tinned Copper		
nsulation							
ľ	laterial					Color Code	
ETFE - Ethyler	ne Tetrafluoroeth	nylene Blad	ck, White, Re	d, Green, Orange, E	Blue, White with Black	Strips, Red with Black Strips, Green with Black Strips, Orange with Black Strips	
Duter Shield Shield Type Braid	Material Tinned Copper	(TC)					
Duter Jacket							
Materi PVC - Polyviny							
Overall Cable Diameter (Norr	ninal): 10.2	mm (0.402 i	n)				

Electrical Characteristics

Electricals

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18.3 Ohm/km (5.58 Ohm/1000ft)
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Voltage

UL Voltage Rating 600 V (Max. Operating Voltage)

Mechanical Characteristics

Temperature

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: 197 kg/km (132 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

ltem #	Color	Length
MRTB10C17S G8U100M	Gray	100 m
MRTB10C17S G8U200M	Gray	200 m
MRTB10C17S G8U300M	Gray	300 m
MRTB10C17S 003100M	Orange	100 m
MRTB10C17S 003200M	Orange	200 m
MRTB10C17S 003300M	Orange	300 m

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