



Product: MRTB7C15S ☑

MachFlex[™] Robotic Multi-Core Control, 7 C 15 AWG Str TC, ETFE Ins, TCBS, PVC Outer Jkt

Product Description

MachFlex™ Robotic Multi-Core Control & Signal Cable, 7 Conductor 15 AWG Stranded Tinned Copper, ETFE Insulation, Tinned Copper Braid Shield, PVC Outer Jacket

Technical Specifications

Product Overview

Suitable Applications:

Construction Details

Conductor	
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Element	No. of Elements	Size	Stranding	Stranding Class	Material
Conductor(s)	7	15 AWG	Stranded	Class 6	TC - Tinned Copper

Insulation

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

Outer Shield

Shield Type	Material
Braid	Tinned Copper (TC)

Outer Jacket

Material PVC - Polyvinyl Chlorid	e
Overall Cable Diameter (Nominal):	11 mm (0.43 in)

Electrical Characteristics

Electricals

Max. Conductor DCR

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9.9 Ohm/km (3.0 Ohm/1000ft)
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Voltage

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UL Voltage Rating
600 V (Max. Operating Voltage)
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Mechanical Characteristics

Temperature

Oper	ating
4000 4	10500

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: 238 kg/km (160 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
MRTB7C15S G8U100M	Gray	100 m
MRTB7C15S G8U200M	Gray	200 m
MRTB7C15S G8U300M	Gray	300 m
MRTB7C15S 003100M	Orange	100 m
MRTB7C15S 003200M	Orange	200 m
MRTB7C15S 003300M	Orange	300 m

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