Product: 6C1.0YCY

MachFlex™ LiYCY, 6 C 1.0 mm² Str BC, PVC Ins, TCBS, PVC Jkt

Product Description

MachFlex™ LiYCY PVC Control VDE Certified & Signal Cables , 6 Conductor 1.0mm² Stranded Bare Copper, PVC Insulation, Tinned Copper Braid Shield, PVC Jacket

Technical Specifications

Product Overview

Suitable Applications:	Designed for applications which are installed in occasional flexing and fixed locations. Cable applications include precision control sensors, pressure gauge, temperature controllers, control panels, vibration monitoring systems, intelligent security controllers, production machinery and many more. Tinned cooper braid shield ensure the cables with excellent noise immunity

Physical Characteristics (Overall)

Conductor

Element	AWG	Stranding	Material	No. of Conductors
Conductor(s)	1 mm²	Stranded	BC - Bare Copper	6

Conductor Count:	6

Insulation

Material
PVC - Polyvinyl Chloride

Color Chart

Number	Color
1	White
2	Brown
3	Green
4	Yellow
5	Gray
6	Pink

Outer Shield

Type	Material
Braid	Tinned Copper (TC)

Outer Jacket

Material	Nominal Diameter
PVC - Polyvinyl Chloride	7.9 mm

Electrical Characteristics

Conductor DCR

Max. Conductor DCR
19.5 Ohm/km

Capacitance

Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Shield
120 pF/m	160 pF/m

Insulation Resistance:	20 GOhm x cm
Min Insulation Resistance:	20 GOhm x cm

Inductance

Nominal Inductance
0.5 µH/m

Voltage

Description	Voltage Rating [V]
Operating Voltage	500 V
Testing Voltage	1500 V

Temperature Range

Installation Temperature Range:	40°C to +80°C
Operating Temperature Range:	5°C to +70°C

Mechanical Characteristics

UV Resistance:	Yes
Bulk Cable Weight:	107 kg/km
Min. Bend Radius During Installation:	6 x OD
Min. Bend Radius During Operation:	15 x OD

Standards

Other Specification:	IEC 60228, DIN EN 50290222, VDE 0812, DIN VDE 020736341, DIN 47100, DIN VDE 0295, BS 6360

Applicable Environmental and Other Programs

EU Directive 2011/65/EU (RoHS 2):	Compliant

Suitability

Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes
Suitability - Sunlight Resistance:	Yes

Flammability, LS0H, Toxicity Testing

IEC Flammability:	IEC 60332-1-2
Other Flammability:	DIN VDE 0482-332-1-2, DIN EN 60332-1-2

Related Part Numbers

Variants

Item #	Color	Length
6C1.0YCY 010200M	Black, RAL 9005	200 m
6C1.0YCY 010305M	Black, RAL 9005	305 m
6C1.0YCY 010500M	Black, RAL 9005	500 m
6C1.0YCY 0101000M	Black, RAL 9005	1,000 m
6C1.0YCY F2V200M	Gray, RAL 7032	200 m
6C1.0YCY F2V305M	Gray, RAL 7032	305 m
6C1.0YCY F2V500M	Gray, RAL 7032	500 m
6C1.0YCY F2V1000M	Gray, RAL 7032	1,000 m

History

Update and Revision:	Revision Number: 0.24 Revision Date: 04-08-2022

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