



Product: [8P0.5YY](#)

MachFlex™ LiYY(TP), 8 Pr 0.5mm² Str BC, PVC Ins, PVC Jkt

Product Description

MachFlex™ LiYY (TP) Control VDE Certified and Twisted Pair PVC Signal Cables 8 Pair 0.5mm² Stranded Bare Copper, PVC Insulation, 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. Twisted pair (TP) design reduced crosstalk effects

Physical Characteristics (Overall)

Conductor

Element	AWG	Stranding	Material	No. of Conductors
Conductor(s)	0.5 mm ²	Stranded	BC - Bare Copper	16

Conductor Count: 16

Insulation

Material
PVC - Polyvinyl Chloride

Color Chart

Number	Color
1	White, Brown
2	Green, Yellow
3	Grey, Pink
4	Blue, Red
5	Black, Violet
6	Grey/Pink, Red/Blue
7	White/Green, Brown/Green
8	White/Yellow, Yellow/Brown

Outer Jacket

Material	Nominal Diameter
PVC - Polyvinyl Chloride	11.4 mm

Electrical Characteristics

Conductor DCR

Max. Conductor DCR
39 Ohm/km

Capacitance

Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Shield
12 pF/ft	16 pF/m

Insulation Resistance: 20 GOhm x cm

Min Insulation Resistance: 26 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 Temp Range:	-40°C to +80°C
Operating Temp Range:	-5°C to +70°C

Mechanical Characteristics

UV Resistance:	Yes
Bulk Cable Weight:	160 kg/km
Min. Bend Radius During Installation:	4 x OD
Min. Bend Radius During Operation:	10 x OD

Standards

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

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

Flammability, LS0H, Toxicity Testing

IEC Flammability:	IEC 60332-1-2
Other Flammability:	VDE 048233212, DIN EN 6033212

Related Part Numbers

Variants

Item #	Color	Length
8P0.5YY 010305M	Black, RAL 9005	305 m
8P0.5YY 010500M	Black, RAL 9005	500 m
8P0.5YY 0101000M	Black, RAL 9005	1,000 m
8P0.5YY F2V305M	Gray, RAL 7032	305 m
8P0.5YY F2V500M	Gray, RAL 7032	500 m
8P0.5YY F2V1000M	Gray, RAL 7032	1,000 m

History

Update and Revision:	Revision Number: 0.16 Revision Date: 12-15-2021
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