



**Product:** [8P0.5YCY](#) 

MachFlex™ LiYCY(TP), 8 Pr 0.5mm<sup>2</sup> Str BC, PVC Ins, TCBS, PVC Jkt

## Product Description

MachFlex™ LiYCY(TP) Control VDE Certified & Twisted Pair PVC Signal Cables 8 Pair 0.5mm<sup>2</sup> 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 copper braid shield ensure the cables with excellent noise immunity. Twisted pair (TP) design reduced crosstalk effects

### Physical Characteristics (Overall)

#### Conductor

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

Conductor Count: 16

#### Insulation

Material
PVC - Polyvinyl Chloride

#### Color Chart

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

#### Outer Shield

Type	Material
Braid	Tinned Copper (TC)

#### Outer Jacket

Material	Nominal Diameter
PVC - Polyvinyl Chloride	12.4 mm

### Electrical Characteristics

#### Conductor DCR

Max. Conductor DCR
39 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: 199 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
8P0.5CY 010305M	Black, RAL 9005	305 m
8P0.5CY 010500M	Black, RAL 9005	500 m
8P0.5CY 0101000M	Black, RAL 9005	1,000 m
8P0.5CY F2V305M	Gray, RAL 7032	305 m
8P0.5CY F2V500M	Gray, RAL 7032	500 m
8P0.5CY F2V1000M	Gray, RAL 7032	1,000 m

#### History

Update and Revision: Revision Number: 0.22 Revision Date: 04-08-2022

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