



**Product:** [20C0.25YCY](#)

MachFlex™ LiYCY, 20 C 0.25mm<sup>2</sup> Str BC, PVC Ins, TCBS, PVC Jkt

**Product Description**

MachFlex™ LiYCY PVC Control VDE Certified & Signal Cables , 20 Conductor 0.25mm<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 cooper braid shield ensure the cables with excellent noise immunity
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**Physical Characteristics (Overall)**

**Conductor**

Element	AWG	Stranding	Material	No. of Conductors
Conductor(s)	0.25 mm <sup>2</sup>	Stranded	BC - Bare Copper	20

Conductor Count:	20
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**Insulation**

Material
PVC - Polyvinyl Chloride

**Color Chart**

Number	Color
1	White
2	Brown
3	Green
4	Yellow
5	Gray
6	Pink
7	Blue
8	Red
9	Black
10	Violet
11	Gray with Pink strips
12	Red with Blue strips
13	White with Green strips
14	Brown with Green strips
15	White with Yellow strips
16	Yellow with Brown strips
17	White with Gray strips
18	Gray with Brown strips
19	White with Pink strips
20	Pink with Brown strips
21	White with Blue strips

**Outer Shield**

Type	Material
Braid	Tinned Copper (TC)

#### Outer Jacket

Material	Nominal Diameter
PVC - Polyvinyl Chloride	8.9 mm

## Electrical Characteristics

#### Conductor DCR

Max. Conductor DCR
79 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 Temp Range: 40°C to +80°C

Operating Temp Range: 5°C to +70°C

## Mechanical Characteristics

UV Resistance: Yes

Bulk Cable Weight: 119 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, LSOH, 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
20C0.25YCY 010200M	Black, RAL 9005	200 m

20C0.25YCY 010305M	Black, RAL 9005	305 m
20C0.25YCY 010500M	Black, RAL 9005	500 m
20C0.25YCY F2V200M	Gray, RAL 7032	200 m
20C0.25YCY F2V305M	Gray, RAL 7032	305 m
20C0.25YCY F2V500M	Gray, RAL 7032	500 m

## History

Update and Revision:	Revision Number: 0.24 Revision Date: 12-15-2021
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