



Product: [50C0.14YCY](#) 

MachFlex™ LiYCY, 50 C 0.14mm² Str BC, PVC Ins, TCBS, PVC Jkt

Product Description

MachFlex™ LiYCY PVC Control VDE Certified & Signal Cables , 50 Conductor 0.14mm² 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)	0.14 mm ²	Stranded	BC - Bare Copper	50

Conductor Count:	50
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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
22	Brown with Blue strips

23	White with Red strips
24	Brown with Red strips
25	White with Black strips
26	Brown with Black strips
27	Gray with Green strips
28	Yellow with Gray strips
29	Pink with Green strips
30	Yellow with Pink strips
31	Green with Blue strips
32	Yellow with Blue strips
33	Green with Red
34	Yellow with Red
35	Green with Black strips
36	Yellow with Black strips
37	Gray with Blue strips
38	Pink with Blue strips
39	Gray with Red strips
40	Pink with Red strips
41	Gray with Black strips
42	Pink with Black strips
43	Blue with Black strips
44	Red with Black strips
45	White with 2 Brown strips
46	Yellow with 2 Green strips
47	Gray with 2 Pink strips
48	Red with 2 Blue strips
49	White with 2 Green strips
50	Brown with 2 Green strips

Outer Shield

Type	Material
Braid	Tinned Copper (TC)

Outer Jacket

Material	Nominal Diameter
PVC - Polyvinyl Chloride	11.0 mm

Electrical Characteristics

Conductor DCR

Max. Conductor DCR
138 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	350 V
Testing Voltage	1200 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:	173 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
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Applicable Environmental and Other Programs

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

Part Number

Variants

Item #	Color	Length
50C0.14YCY 010200M	Black, RAL 9005	200 m
50C0.14YCY 010305M	Black, RAL 9005	305 m
50C0.14YCY F2V200M	Gray, RAL 7032	200 m
50C0.14YCY F2V305M	Gray, RAL 7032	305 m

History

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