



Product: [12C0.25YY](#)

MachFlex™ LiYY, 12 C 0.25mm² Str BC, PVC Ins, PVC Jkt

Product Description

MachFlex™ LiYY PVC Control VDE Certified & Signal Cables, 12 Conductor 0.25mm² 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
------------------------	--

Physical Characteristics (Overall)

Conductor

Element	AWG	Stranding	Material	No. of Conductors
Conductor(s)	0.25 mm ²	Stranded	BC - Bare Copper	12

Conductor Count: 12

Insulation

Material
PVC - Polyvinyl Chloride

Color Chart

Number	Color
1	White
2	Brown
3	Green
4	Yellow
5	Grey
6	Pink
7	Blue
8	Red
9	Black
10	Violet
11	Gray with Pink strips
12	Red with Blue strips

Outer Jacket

Material	Nominal Diameter
PVC - Polyvinyl Chloride	6.7 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:	67 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
----------------------	---

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
12C0.25YY 010200M	Black, RAL 9005	200 m
12C0.25YY 010305M	Black, RAL 9005	305 m
12C0.25YY 010500M	Black, RAL 9005	500 m
12C0.25YY 0101000M	Black, RAL 9005	1,000 m
12C0.25YY F2V200M	Gray, RAL 7032	200 m
12C0.25YY F2V305M	Gray, RAL 7032	305 m
12C0.25YY F2V500M	Gray, RAL 7032	500 m
12C0.25YY F2V1000M	Gray, RAL 7032	1,000 m

History

Update and Revision:	Revision Number: 0.18 Revision Date: 12-15-2021
----------------------	---

© 2022 Belden, Inc

All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described here in are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "ASIS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with all applicable environmental programs as listed in the data sheet. The information provided is correct to the best of Belden's knowledge, information and belief at the date of its publication. This information is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. The Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.

