



Product: [56C0.25YCY](#)

MachFlex™ LiYCY, 56 C 0.25mm² Str BC, PVC Ins, TCBS, PVC Jkt

Product Description

MachFlex™ LiYCY PVC Control VDE Certified & Signal Cables , 56 Conductor 0.25mm² 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
------------------------	--

Physical Characteristics (Overall)

Conductor

Element	AWG	Stranding	Material	No. of Conductors
Conductor(s)	0.25 mm²	Stranded	BC - Bare Copper	56

Conductor Count:	56
------------------	----

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
51	White with 2 Yellow strips
52	Yellow with 2 Brown strips
53	White with 2 Gray strips
54	Gray with 2 Brown strips
55	White with 2 Pink strips
56	Pink with 2 Brown strips

Outer Shield

Type	Material
Braid	Tinned Copper (TC)

Outer Jacket

Material	Nominal Diameter
PVC - Polyvinyl Chloride	14.4 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 Temperature Range:	40°C to +80°C
Operating Temperature Range:	5°C to +70°C

Mechanical Characteristics

UV Resistance:	Yes
Bulk Cable Weight:	317 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
56C0.25YCY 010200M	Black, RAL 9005	200 m
56C0.25YCY 010305M	Black, RAL 9005	305 m
56C0.25YCY F2V200M	Gray, RAL 7032	200 m
56C0.25YCY F2V305M	Gray, RAL 7032	305 m

History

Update and Revision:	Revision Number: 0.26 Revision Date: 04-08-2022
----------------------	---

© 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.