



Product: [7C0.14YY](#)

MachFlex™ LiYY, 7 C 0.14mm² Str BC, PVC Ins, PVC Jkt

Product Description

MachFlex™ LiYY PVC Control VDE Certified & Signal Cables, 7 Conductor 0.14mm² 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) | 0.14 mm² | Stranded | BC - Bare Copper | 7 |
| Conductor Count: 7 | | | | |

| Insulation | |
|--------------------------|--|
| Material | |
| PVC - Polyvinyl Chloride | |

| Color Chart | |
|-------------|--------|
| Number | Color |
| 1 | White |
| 2 | Brown |
| 3 | Green |
| 4 | Yellow |
| 5 | Grey |
| 6 | Pink |
| 7 | Blue |

| Outer Jacket | |
|--------------------------|------------------|
| Material | Nominal Diameter |
| PVC - Polyvinyl Chloride | 4.2 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 Temperature Range: | -40°C to +80°C |
| Operating Temperature Range: | -5°C to +70°C |

Mechanical Characteristics

| | |
|---------------------------------------|----------|
| UV Resistance: | Yes |
| Bulk Cable Weight: | 26 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, 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 |
|-------------------|-----------------|---------|
| 7C0.14YY 010200M | Black, RAL 9005 | 200 m |
| 7C0.14YY 010305M | Black, RAL 9005 | 305 m |
| 7C0.14YY 010500M | Black, RAL 9005 | 500 m |
| 7C0.14YY 0101000M | Black, RAL 9005 | 1,000 m |
| 7C0.14YY F2V200M | Gray, RAL 7032 | 200 m |
| 7C0.14YY F2V305M | Gray, RAL 7032 | 305 m |
| 7C0.14YY F2V500M | Gray, RAL 7032 | 500 m |
| 7C0.14YY F2V1000M | Gray, RAL 7032 | 1,000 m |

History

| | |
|----------------------|---|
| Update and Revision: | Revision Number: 0.16 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.