



Product: [32P1.5YY](#)

MachFlex™ LiYY(TP), 32 Pr 1.5mm² Str BC, PVC Ins, PVC Jkt

Product Description

MachFlex™ LiYY (TP) Control VDE Certified and Twisted Pair PVC Signal Cables 32 Pair 1.5mm² 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. Twisted pair (TP) design reduced crosstalk effects
------------------------	--

Physical Characteristics (Overall)

Conductor				
Element	AWG	Stranding	Material	No. of Conductors
Conductor(s)	1.5 mm²	Stranded	BC - Bare Copper	64
Conductor Count:		64		

Insulation	
Material	
PVC - Polyvinyl Chloride	

Color Chart

Number	Color
1	White, Brown
2	Green, Yellow
3	Grey, Pink
4	Blue, Red
5	Black, Violet
6	Grey/Pink, Red/Blue
7	White/Green, Brown/Green
8	White/Yellow, Yellow/Brown
9	White/Grey, Grey/Brown
10	White/Pink, Pink/Brown
11	White/Blue, Brown/Blue
12	White/Red, Brown/Red
13	White/Black, Brown/Black
14	Grey/Green, Yellow/Grey
15	Pink/Green, Yellow/Pink
16	Green/Blue, Yellow/Blue
17	Green/Red, Yellow/Red
18	Green/Black, Yellow/Black
19	Grey/Blue, Pink/Blue
20	Grey/Red, Pink/Red
21	Grey/Black, Pink/Black
22	Blue/Black, Red/Black
23	Grey/Pink, Red/Blue
24	White/Green, Brown/Green

25	White/Yellow, Yellow/Brown
26	White/Grey, Grey/Brown
27	White/Pink, Pink/Brown
28	White/Blue, Brown/Blue
29	White/Red, Brown/Red
30	White/Black, Brown/Black
31	Grey/Green, Yellow/Grey
32	Pink/Green, Yellow/Pink

Outer Jacket

Material	Nominal Diameter
PVC - Polyvinyl Chloride	30.8 mm

Electrical Characteristics

Conductor DCR

Max. Conductor DCR
13.3 Ohm/km

Capacitance

Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Shield
12 pF/ft	16 pF/m

Insulation Resistance:	20 GOhm x cm
Min Insulation Resistance:	31 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:	1383 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:	VDE 048233212, DIN EN 6033212

Related Part Numbers

Variants

Item #	Color	Length
32P1.5YY 010200M	Black, RAL 9005	200 m
32P1.5YY 010305M	Black, RAL 9005	305 m
32P1.5YY F2V200M	Gray, RAL 7032	200 m
32P1.5YY F2V305M	Gray, RAL 7032	305 m

History

Update and Revision:	Revision Number: 0.14 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.