



Product: [20P1.0YCY](#)

MachFlex™ LiYCY(TP), 20 Pr 1 mm² Str BC, PVC Ins, TCBS, PVC Jkt

Product Description

MachFlex™ LiYCY(TP) Control Twisted Pair PVC Signal Cables 20 Pair 1 mm² 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 copper braid shield ensure the cables with excellent noise immunity. Twisted pair (TP) design reduced crosstalk effects
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Construction Details

Conductor

Element	No. of Elements	Size	Stranding	Material
Pair(s)	20	1 mm ²	Stranded	BC - Bare Copper

Insulation

Material	Color Code
PVC - Polyvinyl Chloride	1. White&Brown, 2. Green&Yellow, 3. Gray&Pink, 4. Blue&Red, 5. Black&Violet, 6. Gray/Pink & Red/Blue, 7. White/Green & Brown/Green, 8. White/Yellow & Yellow/Brown, 9. White/Gray & Gray/Brown, 10. White/Pink & Pink/Brown, 11. White/Blue & Brown/Blue, 12. White/Red & Brown/Red, 13. White/Black & Brown/Black, 14. Gray/Green & Yellow/Gray, 15. Pink/Green & Yellow/Pink, 16. Green/Blue & Yellow/Blue, 17. Green/Red & Yellow/Red, 18. Green/Black & Yellow/Black, 19. Gray/Blue & Pink/Blue, 20. Gray/Red & Pink/Red

Outer Shield

Shield Type	Material
Braid	Tinned Copper (TC)

Outer Jacket

Material
PVC - Polyvinyl Chloride

Overall Cable Diameter (Nominal): 21.9 mm (0.862 in)

Electrical Characteristics

Electricals

Nom. Capacitance Cond-to-Cond	Nom. Capacitance Cond-to-Shield
120 pF/m (37 pF/ft)	160 pF/m (49 pF/ft)

Voltage

Voltage Rating
500 V (Max. Operating Voltage), 1500 V (Testing Voltage)

Mechanical Characteristics

Temperature

Operating	Installation
-5°C to +70°C (Occasional movement)	-40°C to +80°C (Fixed installation)

Bend Radius

Stationary Min.	Installation Min.
328.5 mm (12.93 in)	131.4 mm (5.173 in)

Bulk Cable Weight: 685 kg/km (460 lbs/1000ft)

Standards and Compliance

Environmental Suitability:	Sunlight Resistance, UV Resistance
Flammability / Reaction to Fire:	IEC 60332-1-2, DIN VDE 0482-332-1-2, DIN EN 60332-1-2
ISO/IEC Compliance:	IEC 60228
CENELEC Compliance:	EN 50290-2-22, EN 50363-4-1
European Directive Compliance:	EU CE Mark, EU Directive 2015/863/EU (RoHS 2 amendment), REACH, EU Directive 2011/65/EU (RoHS 2)
Other Standard Compliance(s):	VDE 0812, DIN 47100, BS 6360

History

Update and Revision: Revision Number: 0.29 Revision Date: 07-04-2024

Part Numbers

Variants

Item #	Color	Length
20P1.0YCY 010100M	Black, RAL 9005	100 m
20P1.0YCY 010200M	Black, RAL 9005	200 m
20P1.0YCY 010300M	Black, RAL 9005	300 m
20P1.0YCY 006100M	Blue, RAL 5015	100 m
20P1.0YCY 006200M	Blue, RAL 5015	200 m
20P1.0YCY 006300M	Blue, RAL 5015	300 m
20P1.0YCY F2V100M	Gray, RAL 7032	100 m
20P1.0YCY F2V200M	Gray, RAL 7032	200 m
20P1.0YCY F2V300M	Gray, RAL 7032	300 m

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