



Product: [8P0.5YCY](#) 

MachFlex™ LiYCY(TP), 8 Pr 0.5mm² Str BC, PVC Ins, TCBS, PVC Jkt

Product Description

MachFlex™ LiYCY(TP) Control VDE Certified & Twisted Pair PVC Signal Cables 8 Pair 0.5mm² 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	Size	Stranding	Material
Conductor(s)	0.5 mm ²	Stranded	BC - Bare Copper

Insulation

Material	Color Code
PVC - Polyvinyl Chloride	White, Brown, Green, Yellow, Gray, Pink, Blue, Red, Black, Violet, Gray with Pink strips, Red with Blue strips, White with Green strips, Brown with Green strips, White with Yellow strips, Yellow with Brown strips

Outer Shield

Shield Type	Material
Braid	Tinned Copper (TC)

Outer Jacket

Material	Nom. Diameter
PVC - Polyvinyl Chloride	12.4 mm (0.488 in)

Electrical Characteristics

Electricals

Nom. Capacitance Cond-to-Cond	Nom. Capacitance Cond-to-Shield	Nom. Inductance
120 pF/m (37 pF/ft)	160 pF/m (49 pF/ft)	0.5 μH/m (0.15 μH/ft)

Voltage

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

Mechanical Characteristics

Temperature

Operating
5°C to +70°C

Bend Radius

Installation Min.
74.4 mm (2.93 in)

Bulk Cable Weight: 199 kg/km (134 lbs/1000ft)

Standards and Compliance

Environmental Suitability:	Indoor, Outdoor, 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
Other Standard Compliance(s):	VDE 0812, DIN 47100, BS 6360

History

Update and Revision: Revision Number: 0.48 Revision Date: 01-15-2026

Part Numbers

Variants

Item #	Color	Length
8P0.5YCY 010100M	Black	100 m
8P0.5YCY 010200M	Black	200 m
8P0.5YCY 010300M	Black	300 m
8P0.5YCY 006100M	Blue	100 m
8P0.5YCY 006200M	Blue	200 m
8P0.5YCY 006300M	Blue	300 m
8P0.5YCY F2V100M	Gray, RAL 7032	100 m
8P0.5YCY F2V200M	Gray, RAL 7032	200 m
8P0.5YCY F2V300M	Gray, RAL 7032	300 m

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