



Product: [5P1.0YY](#)

MachFlex™ LiYY(TP), 5 Pr 1.0mm² Str BC, PVC Ins, PVC Jkt

Product Description

MachFlex™ LiYY (TP) Control Twisted Pair PVC Signal Cables 5 Pair 1.0mm² 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. Twistedpair (TP) design reduced crosstalk effects. |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Construction Details

| Element | No. of Elements | Size | Stranding | Material |
|---------|-----------------|-------|-----------|------------------|
| Pair(s) | 5 | 1 mm² | Stranded | BC - Bare Copper |

| Material | Color Code |
|--------------------------|-----------------------------------------------------------------------------|
| PVC - Polyvinyl Chloride | 1. White&Brown, 2. Green&Yellow, 3. Gray&Pink, 4. Blue&Red, 5. Black&Violet |

| Outer Jacket | |
|-----------------------------------|--------------------|
| Material | |
| PVC - Polyvinyl Chloride | |
| Overall Cable Diameter (Nominal): | 10.7 mm (0.421 in) |

Electrical Characteristics

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

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

Mechanical Characteristics

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

| Stationary Min. | Installation Min. |
|------------------|-------------------|
| 107 mm (4.21 in) | 42.8 mm (1.69 in) |

| | |
|--------------------|----------------------------|
| Bulk Cable Weight: | 161 kg/km (108 lbs/1000ft) |
|--------------------|----------------------------|

Standards and Compliance

| | |
|----------------------------------|--------------------------------------------------------------------------------------------------|
| Environmental Suitability: | Sunlight Resistance, UV Resistance |
| Flammability / Reaction to Fire: | IEC 60332-1-2, VDE 048233212, DIN EN 6033212 |
| 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: 0.49 Revision Date: 07-15-2024 |
|----------------------|-------------------------------------------------|

Part Numbers

Variants

| Item # | Color | Length |
|-----------------|----------------|--------|
| 5P1.0YY 010100M | Black | 100 m |
| 5P1.0YY 010200M | Black | 200 m |
| 5P1.0YY 010300M | Black | 300 m |
| 5P1.0YY 006100M | Blue | 100 m |
| 5P1.0YY 006200M | Blue | 200 m |
| 5P1.0YY 006300M | Blue | 300 m |
| 5P1.0YY F2V100M | Gray, RAL 7032 | 100 m |
| 5P1.0YY F2V200M | Gray, RAL 7032 | 200 m |
| 5P1.0YY F2V300M | Gray, RAL 7032 | 300 m |

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