FeiChun® LiYCY (TP) Cable - Low-Frequency PVC Data Cable



Technical Specifications

Product Overview

FeiChun® LiYCY (TP) is a high-quality, low-frequency data cable designed for various electronic control and instrumentation applications. With its twisted-pair (TP) design and effective shielding, this cable offers excellent protection against electromagnetic interference (EMI), ensuring reliable performance in demanding environments. Ideal for use in control systems, office machines, and electronic equipment, the LiYCY (TP) cable delivers superior signal integrity while maintaining low capacitance and resistance to external interference.

Key Features and Benefits

Twisted Pair (TP) Design: The twisted-pair configuration provides effective decoupling of circuits, significantly reducing crosstalk effects and maintaining signal integrity.

Shielded Construction: A tinned-copper braid surrounding the cable minimizes electrical interference and ensures stable signal transmission in electrically noisy environments.

Flame Retardant: Compliant with IEC 60332-1-2, the cable offers enhanced safety by preventing the spread of fire in case of an incident.

Low Capacitive Interference: Provides good protection against capacitive interference, especially from high-power cables in proximity.

Temperature Flexibility: Suitable for occasional flexing as well as fixed installations, with a wide operating temperature range.

Product Composition

Conductor: Fine-wire strands made from bare copper for optimal conductivity.

Core Insulation: PVC (Polyvinyl Chloride) insulation, providing good electrical properties and durability.

Shielding: Tinned-copper braiding serves as the shielding layer to minimize electromagnetic interference (EMI).

Outer Sheath: PVC outer sheath, grey in color (similar to pebble grey/RAL 7032), providing mechanical protection and weather resistance.

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Core Identification Code: According toDIN 47100, see Appendix T9 for detailed information.

Mutual Capacitance:

C/C: Approx. 120 nF/km

C/S: Approx. 160 nF/km

Inductivity: Approx. 0.65 mH/km

Conductor Stranding: Fine copper wire strands for improved flexibility and conductivity.

Nominal Voltage: U0/U: 300/500 V (depending on application).

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Number of Cores	Conductor Size (mm²)	Outer Diameter (mm)	Copper Index (kg/km)	Weight (kg/km)
3 x 2 x 1.0	1.0	10	96	173

Temperature Range:

Occasional Flexing: -5°C to +70°C

Fixed Installation: -40°C to +80°C

Minimum Bending Radius:

Occasional Flexing: 15 x outer diameter

Fixed Installation: 6 x outer diameter

Flame Retardancy: Flame-retardant according toIEC 60332-1-2.

Application Range

The FeiChun® LiYCY (TP) cable is versatile and can be used in various electronic systems,

Control Equipment: Perfect for use in industrial control systems where reliable and interference-free data transmission is critical.

Instrumentation Systems: Ideal for measurement and control applications that demand precision and minimal signal loss.

Office Machines & Electronics: Used in office environments for machines like balances, computers, and other office equipment requiring robust data cables.

Indoor Environments: Suitable for use in dry or damp rooms.

Norm References / Approvals

Based on VDE 0812 standards for control cables.

Flame-retardant in accordance with IEC 60332-1-2.

Complies with DIN 47100 for core identification.