ANHUI FEICHUN SPECIAL CABLE CO., LTD.

安徽飞纯特种电缆有限公司

TECHNICAL SPECIFICATION SHEET

YY 3CX1.5MM² - 1.1KV

Flexible PVC Insulated and Sheathed Control Cable with Copper Conductor

1. PRODUCT DESIGNATION

Parameter	Specification
Cable Type	**YY - Flexible Control Cable**
Number of Cores	**3 Cores**
Cross-Sectional Area	**1.5 mm²**
Rated Voltage U_0/U	**0.6/1.1 kV**
Conductor Material	Copper (Cu) - Class 5 Flexible
Insulation Material	Polyvinyl Chloride (PVC)
Sheath Material	Polyvinyl Chloride (PVC)
Cable Construction	Flexible Type

2. CABLE CONSTRUCTION

CABLE STRUCTURE (Inside to Outside)

1. Conductor: Bare copper, Class 5 flexible stranded (Multiple fine wires)

2. Insulation: PVC compound, color-coded per core

3. Cabling: Three insulated cores laid together

4. Outer Sheath: Black PVC compound

Component	Material/Description	Specification
Conductor	Stranded bare copper wire	Class 5 flexibility per IEC 60228
Conductor Diameter	Fine wire strands	≤0.31 mm nominal wire diameter
Insulation Thickness	PVC Type TI1	0.7 mm nominal
Core Identification	Color coded	Brown, Blue, Green/Yellow
Sheath Thickness	PVC Type TM1	1.8 mm nominal
Outer Diameter	Approximately	10.5 mm ± 0.5 mm

3. ELECTRICAL CHARACTERISTICS

Parameter	Value	Test Condition
Rated Voltage (U_0/U)	**0.6/1.1 kV**	AC 50 Hz
Maximum Conductor DC Resistance	13.3 Ω/km	At 20°C
AC Voltage Test	3.5 kV for 5 minutes	Between conductor and water
Insulation Resistance	≥0.01 GΩ·km	At 20°C
Maximum Continuous Operating Temperature	70°C	Normal operation
Maximum Short Circuit Temperature	160°C	Maximum duration 5 seconds

4. MECHANICAL PROPERTIES

Parameter	Specification
Minimum Bending Radius (Installation)	6 × Overall Diameter (≥63 mm)
Minimum Bending Radius (Fixed)	4 × Overall Diameter (≥42 mm)
Approximate Weight	95 kg/km
Flexibility	**Class 5 - Highly Flexible**
Installation Temperature	≥0°C (non-preheated)
Ambient Temperature Range	-15°C to +70°C

5. APPLICATIONS & FEATURES

Control & Automation

Ideal for control circuits in industrial equipment, machinery, and automation systems

Flexible Installation

Highly flexible construction suitable for frequent movement and dynamic applications

Power Distribution

Suitable for power supply to mobile equipment and portable tools

Indoor/Outdoor Use

Can be used in dry, damp, or wet locations with appropriate protection

Key Features: Excellent flexibility | Oil resistant PVC | Good mechanical protection | UV resistant sheath | Halogen-free options available | Cost-effective solution

6. STANDARDS COMPLIANCE

Standard	Description
IEC 60227	Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V
IEC 60228	Conductors of insulated cables
IEC 60332-1	Tests on electric cables under fire conditions - Single vertical insulated wire or cable flame test
GB/T 5023	Chinese National Standard for PVC insulated cables
RoHS Compliant	Restriction of Hazardous Substances

7. PACKAGING & DELIVERY

Item	Details
Standard Length	100m, 200m, or as per customer requirement
Packaging	Wooden drum or steel drum
Marking	Cable type, specifications, manufacturer name, and length marked on sheath
Lead Time	15-30 days after order confirmation

飞纯电缆

FEICHUN SPECIAL CABLES

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