FEICHUN CABLE

TECHNICAL SPECIFICATION SHEET

Cable NYY-J (PP 00) - Signal Cable with PVC

Manufactured in accordance with SRPS N.C5.220 Standard

PRODUCT DESIGNATION

NYY-J (PP 00) - Signal Cable with PVC Insulation and Sheath

Cable NYY-J (PP 00) 4×4 mm² 0.6/1kV	**Cable NYY-J (PP 00) 4×6 mm² 0.6/1kV**

GENERAL SPECIFICATIONS

Nominal Voltage U_0/U	Test Voltage	Standard
0.6/1 kV	3.5 kV	SRPS N.C5.220

Primary Standard:	SRPS N.C5.220
Cable Type:	NYY-J (PP 00)
Classification:	Signal Cable
Insulation Material:	PVC Compound
Filling Material:	Thermoplastic Tapes/Rubber
Sheath Material:	PVC Compound

Conductor Material:	Annealed Copper	**Sheath Color:**	Black
Core Arrangement:	Concentric Layout	**Application:**	Control & Signal

CONSTRUCTION DETAILS

Conductor:	Annealed copper wire providing excellent conductivity and signal integrity
Insulation:	Polyvinyl chloride (PVC) compound with optimized electrical properties for signal transmission
Core Assembly:	Insulated cores stranded together in concentric laid configuration for optimal signal performance
Filling:	Wrapped thermoplastic tapes or extruded non-vulcanized rubber compound layer for cable geometry
Outer Sheath:	PVC compound outer sheath, black color, providing mechanical and environmental protection

Special Configuration Note: The specified 4×4 mm² and 4×6 mm² configurations represent specialized variants of the NYY-J series, typically manufactured for specific control applications requiring medium cross-section conductors.

CONSTRUCTION DATA

Construction n×q [mm²]	Cu Content [kg/km]	Cable Diameter [mm]	Cable Mass [kg/km]	DC Resistance at 20°C [Ω/km]	Application Category
4×4*	**144***	**12.5***	**285***	**4.61**	**Medium Power Control**
4×6*	**216***	**13.8***	**340***	**3.08**	**Medium Power Control**
7×1.5	101	13.0	252	12.1	Multi-Signal Control

Construction n×q [mm²]	Cu Content [kg/km]	Cable Diameter [mm]	Cable Mass [kg/km]	DC Resistance at 20°C [Ω/km]	Application Category
8×1.5	115	14.0	290	12.1	Multi-Signal Control
10×1.5	144	16.5	345	12.1	Multi-Signal Control
12×1.5	173	17.0	392	12.1	Multi-Signal Control
7×2.5	168	15.0	347	7.41	Signal/Light Power
8×2.5	192	16.0	408	7.41	Signal/Light Power
10×2.5	240	19.0	478	7.41	Signal/Light Power
12×2.5	288	19.0	559	7.41	Signal/Light Power
16×1.5	230	18.5	500	12.1	Multi-Signal Control
19×1.5	274	19.5	570	12.1	Multi-Signal Control
24×1.5	346	22.5	708	12.1	Complex Control
30×1.5	432	24.0	851	12.1	Complex Control
37×1.5	533	26.0	1040	12.1	Complex Control
52×1.5	749	30.5	1397	12.1	Complex Control
61×1.5	878	32.0	1671	12.1	Complex Control

Technical Notes:

• Highlighted rows indicate the specified 4×4 mm² and 4×6 mm² configurations

• (*) Values estimated based on standard construction principles for specified variants

• n = number of cores, q = nominal cross-section of conductor

• DC resistance values calculated at 20°C for copper conductor

• Cable diameter includes outer sheath and filling materials

• All dimensions and masses are nominal values subject to standard tolerances

OPERATING PARAMETERS

Temperature Limits

Installation Parameters

Maximum Operating:	+70°C
Installation & Handling:	min +5°C
Storage Temperature:	-30°C to +70°C

Minimum Bending Radius:	15D
Installation Method:	Fixed Installation
Mechanical Protection:	Standard Grade
EMC Consideration:	Required

FIELD OF APPLICATION

Industrial Control

Control Devices:	✓
Process Control:	✓
Automation Systems:	✓

Power Plants

Electric Power Plants:	✓
Substation Control:	✓
SCADA Systems:	✓

Traffic Control

Traffic Management:	✓
Signal Systems:	✓
Transportation Control:	✓

Primary Applications: NYY-J cables are designed for signal and control applications in industrial plants, electric power stations, and traffic control systems where reliable signal transmission is critical.

Installation Environments:

- Underground installation in earth and buried applications
- Cable ducts and conduit systems for protected routing
- Open air installations with appropriate mechanical protection
- Industrial plants requiring control and signal interconnections
- Electric power plants for control device connections
- Traffic control systems and transportation infrastructure

Installation Methods:

Underground	Duct Installation	Open Air	Industrial Plants
Direct burial in earth	Protected cable routing	Above-ground installation	Control system wiring

Signal Transmission Applications: Control circuits, instrumentation signals, data transmission systems, and interconnections between control devices where signal integrity and electrical noise immunity are essential.

Important EMC Notice: When installing control cables parallel to power cables and overhead lines, special attention must be paid to electromagnetic interference effects on transmitted signals. Proper separation distances and shielding measures should be implemented according to applicable EMC standards. Installation must be performed by qualified personnel familiar with signal cable requirements.

COMPLIANCE & STANDARDS

Primary Standard:	SRPS N.C5.220
Cable Classification:	Signal Cable with PVC Insulation and Sheath
Application Approval:	Industrial Control, Power Plants, Traffic Systems
Installation Standards:	Underground, Duct, Open Air Applications
EMC Considerations:	Signal integrity protection required
Quality Assurance:	Factory tested to SRPS N.C5.220 requirements
Environmental Suitability:	Industrial and outdoor applications

Mechanical Protection:	Suitable for non-mechanically stressed environments

FEICHUN SPECIAL CABLES

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