ANHUI FEICHUN SPECIAL CABLE CO., LTD.

安徽飞纯特种电缆有限公司

TECHNICAL SPECIFICATION SHEET

ARMORED POWER CABLE 4CX70MM²

Product Description

Heavy-duty armored power cable featuring four cores of 70mm² copper multi-strand conductors. Engineered for industrial power distribution in demanding environments requiring mechanical protection and reliable electrical performance.

PRIMARY SPECIFICATIONS

Cable Designation	4CX70MM²
Number of Cores	4 Cores
Conductor Cross-Section	70mm² (per core)
Conductor Material	Copper Multi-Strand (Class 2 Stranded)
Conductor Type	Flexible Multi-Wire Stranded
Armor Type	Steel Wire Armored (SWA) / Steel Tape Armored (STA)

ELECTRICAL CHARACTERISTICS

Rated Voltage (U0/U)	0.6/1kV
Maximum Conductor Temperature	90°C (XLPE) / 70°C (PVC)
DC Resistance at 20°C	≤0.268 Ω/km
Current Carrying Capacity	Approximately 200-240A (depending on installation method)
Insulation Resistance	≥0.5 MΩ·km at 20°C
Test Voltage	3.5kV AC for 5 minutes

CABLE CONSTRUCTION

1. **CONDUCTOR:** Copper multi-strand, 70mm² per core, Class 2 stranded
2. **INSULATION:** XLPE (Cross-Linked Polyethylene) or PVC compound
3. **INNER SHEATH:** PVC compound
4. **ARMOR:** Galvanized steel wire or steel tape

5. OUTER SHEATH: PVC compound, black color (standard)

PHYSICAL PROPERTIES

Approximate Overall Diameter	42-48mm (depending on armor type)
Approximate Cable Weight	3,500-4,200 kg/km
Minimum Bending Radius	15 x Overall Diameter (installation) 12 x Overall Diameter (fixed installation)
Operating Temperature Range	-40°C to +90°C
Installation Temperature	Minimum -10°C

APPLICATIONS & FEATURES

Industrial Power Distribution
Suitable for factories, plants, and heavy industrial facilities

Underground Installation
Direct burial with mechanical protection from armor layer

Mechanical Protection
Steel armor provides excellent resistance to impact and crushing

High Current Capacity
70mm² conductors suitable for heavy-duty power transmission

Outdoor Installations
Weather-resistant outer sheath for external use

Mining Operations
Robust construction for harsh mining environments

STANDARDS & COMPLIANCE

Manufacturing Standard	IEC 60502, GB/T 12706
Conductor Standard	IEC 60228, GB/T 3956
Testing Standard	IEC 60840, GB/T 12706
Fire Performance	IEC 60332-1 (single vertical flame test)

QUALITY ASSURANCE

All cables manufactured by Anhui Feichun Special Cable Co., Ltd. undergo rigorous quality control testing including conductor resistance measurement, insulation resistance testing, high voltage withstand testing, and dimensional verification. Each drum is supplied with a test certificate and quality assurance documentation. The manufacturing facility operates under ISO 9001 quality management system certification.

飞纯电缆

FEICHUN SPECIAL CABLES

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