FEICHUN® SPECIAL CABLES

Quotation & Technical Datasheet
Flexible Rubber-Sheathed Mining Cables 0.6/1 kV

Direct manufacturer equivalent to Prysmian flexible mine cables · NSSHÖU-type construction to VDE 0250-812 / IEC 60245

IEC 60245-1 | VDE 0250 Part 812 | 0.6/1 kV | EPR / PCP Rubber | Flame Retardant IEC 60332-1

Document No.: **FC-QUO-GE-2026-8B4D** Date: **10 July 2026** Prepared for: **LLC RMG Gold / JSC RMG Copper — Tbilisi, Georgia**

Attn: **Ms. Maka Lortkipanidze, Procurement Specialist**

1 · Commercial Offer — FCA Shanghai (Incoterms® 2020)

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No.	Type & Specification	Requested Equivalent	Qty (m)	Unit Price USD / m	Amount USD
1	**FC-NSSHÖU 3×95+3×50 mm² 0.6/1 kV** Flexible rubber-sheathed mining cable, EPR insulated, split protective earth conductors	Prysmian flexible mine cable 3×95+3×50 mm²	300	96.35	28,905.00
2	**FC-NSSHÖU 3×50+3×25 mm² 0.6/1 kV** Flexible rubber-sheathed mining cable, EPR insulated, split protective earth conductors	Prysmian flexible mine cable 3×50+3×25 mm²	300	52.95	15,885.00
3	**FC-NSSHÖU 4×6 mm² 0.6/1 kV** Flexible rubber-sheathed mining cable, EPR insulated	Prysmian flexible mine cable 4×6 mm²	500	5.45	2,725.00
				TOTAL — FCA SHANGHAI, CHINA	**USD 47,515.00**

Commercial Terms

安徽飞纯特种电缆有限公司 ANHUI FEICHUN SPECIAL CABLE CO., LTD.

Trade Terms	FCA Shanghai, China (Incoterms® 2020), as requested
Currency	United States Dollars (USD)
Payment	30% T/T advance with order; 70% T/T against copy of shipping documents (negotiable)
Lead Time	20–25 working days after receipt of advance payment
Packing	Export-grade steel-flanged wooden drums, seaworthy packing, ends sealed with heat-shrink caps
Brand & Origin	FEICHUN® — Anhui FeiChun Special Cable Co., Ltd., P.R. China
Documentation	Commercial Invoice, Packing List, Certificate of Origin (Form for Georgia available), Factory Test Report / Quality Certificate per delivery drum
Price Basis	Prices are directly indexed to the LME copper market. Quoted prices are subject to revision in line with LME copper price fluctuation at time of order confirmation. No fixed validity period applies.

> **Direct manufacturer advantage:** FeiChun manufactures NSSHÖU-type flexible mining cables in-house to the same VDE 0250-812 construction standard referenced by Prysmian, Nexans and NKT — typically at 30–45% lower cost with 20–25 day lead times, versus 12–20 weeks ex-Europe.

2 · Technical Datasheet — FC-NSSHÖU 0.6/1 kV

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FC-NSSHÖU is a heavy-duty flexible rubber-sheathed cable engineered for open-cut and underground mining machinery, mobile equipment, conveyors, pumps and shuttle cars, where high mechanical stress, abrasion, repeated flexing and moisture are present. Construction fully

corresponds to the NSSHÖU type per VDE 0250 Part 812, the same design basis as the requested Prysmian flexible mine cable.

★ FEICHUN PROPRIETARY — FC-FLX™ FLEXIBLE CONDUCTOR SYSTEM & FC-CVD™ CV-CURED SHEATH

Construction

Element	Description
Conductor	Finely stranded annealed bare copper, Class 5 flexible per IEC 60228 (FC-FLX™ bunching for maximum flex life)
Insulation	EPR (ethylene-propylene rubber) compound, type 3GI3 per DIN VDE 0207
Earth Conductors	Items 1 & 2: three split protective earth conductors (3×50 mm^2 / 3×25 mm^2) positioned in the interstices of the power cores for symmetrical earthing and improved fault detection
Core Identification	Power cores: black, numbered; earth cores: green/yellow
Inner Sheath	Rubber inner covering, penetrating core interstices for structural stability
Outer Sheath	Heavy-duty PCP/CR (polychloroprene) compound 5GM5, CV continuous-vulcanised (FC-CVD™), black, abrasion-, oil-, ozone-, UV- and flame-resistant

Technical Data

Parameter	Value
Rated voltage U_0/U	0.6/1 kV
Maximum permissible operating voltage	1.2 kV (AC)
Test voltage	3.5 kV, 50 Hz, 5 min
Operating temperature (fixed / mobile)	−40 °C to +80 °C / −25 °C to +80 °C
Maximum conductor temperature	+90 °C
Minimum bending radius (mobile use)	6 × cable outer diameter
Maximum tensile load	15 N/mm^2 of total conductor cross-section
Flame retardance	IEC 60332-1-2 / EN 60332-1-2
Oil resistance (sheath)	IEC 60811-404 compliant
Standards	VDE 0250-812 (NSSHÖU), IEC 60245-1, IEC 60228 Class 5

Dimensional & Electrical Data (Nominal)

Type	Cores × mm^2	Conductor Ø approx. (mm)	Outer Ø approx. (mm)	Weight approx. (kg/km)	Max DC Resistance at 20 °C (Ω/km)	Current Rating in Air 30 °C (A)
FC-NSSHÖU	3×95 + 3×50	13.1	55.5	5,650	0.210 / 0.399	320
FC-NSSHÖU	3×50 + 3×25	9.4	42.0	3,050	0.399 / 0.795	214
FC-NSSHÖU	4×6	3.4	17.5	450	3.39	53

Values nominal per VDE 0250-812 / IEC 60228; final dimensions confirmed on the factory test report accompanying each drum.

Application note — RMG open-pit & underground operations: the split-earth NSSHÖU construction (items 1 & 2) is the standard configuration for excavators, drill rigs, dewatering pumps and mobile substations in gold and copper mining. The symmetrically distributed earth cores enable sensitive earth-leakage protection required in mining electrical networks.

3 · Equivalence to Prysmian Flexible Mine Cable

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Identical Design Basis

- ✓ NSSHÖU type per VDE 0250 Part 812
- ✓ IEC 60228 Class 5 flexible copper
- ✓ EPR insulation / PCP heavy-duty sheath
- ✓ 0.6/1 kV rating, same test voltages

Full Interchangeability

- ✓ Same conductor cross-sections & core count
- ✓ Compatible with existing glands & couplers
- ✓ Same current ratings & derating factors
- ✓ Drop-in replacement — no redesign required

Quality Assurance

- ✓ 100% routine voltage & conductor resistance test
- ✓ Factory test report with every drum
- ✓ ISO 9001 certified manufacturing
- ✓ Third-party inspection (SGS/BV) available

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