PROTOMONT (VO)

Underground Mining Cable | (N)TSKCGEWOEU I 3 KV



PRODUCT TYPE
Coal Cutter Cable (Chain Op.)

MODEL
(N)TSKCGEWOEU

RATED VOLTAGE
1.8/3 (3.6) kV

STANDARDS
DIN VDE, IEC, GOST, MA China

MODEL RANGE
15 Configurations

APPLICATION
Underground Mining

CONTACT INFORMATION

WhatsApp:

+86 13855123218

Website 1:

https://www.feichuncables.com/

Website 2:

https://www.reelingcable.com/

AnHui Feichun Special Cable Co., Ltd

Technical Specifications

PROTOMONT (VO) (N)TSKCGEWOEU Series

Used as power supply connection cable for mobile equipment and machines in underground mining applications, such as coal cutting machines, etc. (VO) Coal cutter cables are designed for use in cable protection chains (cable handler), which are trailed behind the machine and which absorb the thereby occurring tensile forces.

Key Features

Superior Durability
Extreme mechanical stress resistance

Extended Lifespan
Minimal maintenance required

Chemical Resistant
Oils, fuels & UV resistant

Electrical & Environmental Parameters

Parameter	Specification
Rated Voltage U0/U (Um)	1.8/3 (3.6) kV
Test Voltage	6 kV
AC Test Voltage (Control Cores)	2 kV
Nominal Voltage U	3,000 V
Conductor Temperature	90°C (250°C at short circuit)
Ambient Temperature (Fixed)	-40°C to +80°C
Ambient Temperature (Flexible)	-20°C to +60°C
Flame Retardant	EN/IEC 60332-1-2
Chemical Resistance	Oil, Ozone & UV resistant

Mechanical Properties

Torsional Stress
±50°/m

Bending Radius
2.3 × D

Permanent tensile strength (rule): 15 N/mm² | 20 × D minimum distance with S-type directional changes.

Standards & Certifications

DIN VDE 0250-813 | IEC 60228 / VDE 0295 | DIN VDE 0298-4 | DIN EN 60811-404 | DIN EN 60332-1-2 | GOST -R/-K/-B (Russia) | MA China

Cable Construction (8 Layers)

1. Finely stranded copper conductor, tinned, class FS | **2.** Double concentric control/PE conductor | **3.** EPR rubber core insulation (PROTOLON, compound 3GI3) | **4.** Pilot element | **5.** Three main cores laid-up with double concentric control/PE conductor elements (natural color, blue control cores) | **6.** Semi-conductive NBR easy-strip outer layer | **7.** Special EPR compound GM1b inner sheath | **8.** Chlorinated polyethylene (CM/CPE) outer sheath (PROTOFIRM, compound 5GM5)

Product Models

PROTOMONT (VO) (N)TSKCGEWOEU — 15 Standard Configurations

The PROTOMONT (VO) (N)TSKCGEWOEU series offers 15 standard configurations rated at 1.8/3 (3.6) kV, including single-monitoring-core and dual-monitoring-core variants for enhanced flexibility in underground mining applications.

Model Configuration	Cond. (mm²)	Cable Ø Min (mm)	Cable Ø Max (mm)	Weight (kg/km)	Tensile (N)	Capac. (nF/km)	Induct. (mH/km)	Current (A)
3x25+3x(1,5STKON+16/3KON)	7.1	37.8	40.8	2,500	1,125	280	0.34	**131**
3x35+3x(1,5STKON+16/3KON)	8.4	42.0	45.0	3,150	1,575	310	0.33	**162**
3x50+3x(1,5STKON+25/3KON)	10.1	45.7	48.7	3,950	2,250	360	0.31	**202**
3x70+3x(1,5STKON+35/3KON)	11.9	50.9	54.9	5,000	3,150	420	0.30	**250**
3x95+3x(1,5STKON+50/3KON)	14.0	58.2	62.2	6,310	4,275	450	0.29	**301**
3x120+3x(1,5STKON+70/3KON)	15.5	60.1	64.1	7,690	5,400	490	0.28	**352**
3x150+3x(1,5STKON+70/3KON)	17.2	65.6	69.6	9,150	6,750	540	0.28	**404**
3x185+3x(1,5STKON+95/3KON)	19.1	69.7	73.7	10,800	8,325	590	0.27	**461**
3x240+3x(1,5STKON+120/3KON)	22.0	78.9	82.9	13,940	10,800	670	0.26	**540**
3x300+3x(1,5STKON+150/3KON)	24.8	83.4	88.4	17,000	13,500	740	0.25	**620**
3x95+3x(2x1,5ST+3x50/3KON)	14.0	57.2	62.2	6,350	4,275	450	0.29	**301**
3x120+3x(2x1,5ST+3x70/3KON)	15.5	62.8	66.8	7,950	5,400	490	0.28	**352**
3x150+3x(2x1,5STKON+3x70/3KON)	17.2	66.2	70.2	9,100	6,750	540	0.28	**404**
3x185+3x(2x1,5ST+3x95/3KON)	19.1	70.4	74.4	10,750	8,325	590	0.27	**461**
3x240+3x(2x1,5ST+3x120/3KON)	22.0	78.9	82.9	13,650	10,800	670	0.26	**540**

MODEL SELECTION NOTE: The first 10 models use single monitoring conductors (1,5STKON), while the last 5 models (3x95 to 3x240) use dual monitoring conductors (2x1,5ST) for applications requiring redundant control/earth monitoring.

Applications & Contact

Mining Solutions Worldwide

PROTOMONT (VO) (N)TSKCGEWOEU cables are engineered to deliver reliable, uninterrupted power in the most demanding underground mining environments at medium voltage levels. Below are the primary use cases where this cable series excels.

Primary Applications

- **Underground Coal Mining:** Medium-voltage power supply for mobile equipment in subterranean environments
- **Coal Cutting Machines:** Dedicated cable systems for coal cutters operating in chain configuration
- **Cable Protection Chains:** Designed for cable handlers trailing behind mining equipment, absorbing tensile forces
- **Mobile Equipment:** Reliable medium-voltage connections for excavators, drills and conveyor systems
- **Tunneling Projects:** High-performance cables for tunnel boring and underground infrastructure development
- **Extreme Conditions:** Rated for harsh environments with mechanical stress, chemicals, oils and UV exposure

Why Choose AnHui Feichun?

Manufacturing Excellence
State-of-the-art production

Global Reach
Worldwide support network

Certified Quality
Multiple international certifications

Ordering Information

HOW TO ORDER:
Select model configuration from the 15 available options • Specify length & quantity • Contact our sales team • Enjoy competitive pricing & fast delivery
Custom specifications available upon request.

Document Reference

This technical specification sheet is provided for reference purposes. Technical data, dimensions, and weights are subject to change without notice. AnHui Feichun Special Cable Co., Ltd reserves the right to amend this specification. Please contact us directly for the most current product data and certification documents.

CONTACT US

WhatsApp: +86 13855123218
Website 1: https://www.feichuncables.com/
Website 2: https://www.reelingcable.com/

AnHui Feichun Special Cable Co., Ltd
Premium Quality • Global Reach • Local Expertise

 © 2026 AnHui Feichun Special Cable Co., Ltd | All Rights Reserved