PROTOMONT (Z)

Underground Mining Cable | NSSHKCGEOEU I 1 KV



PRODUCT TYPE
Coal Cutter Cable (Trailing)

MODEL
NSSHKCGEOEU

RATED VOLTAGE
0.6/1 (1.2) kV

STANDARDS
DIN VDE, IEC, EAC, MSHA

MODEL RANGE
11 Configurations

APPLICATION
Underground Mining

CONTACT INFORMATION

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AnHui Feichun Special Cable Co., Ltd

Technical Specifications

PROTOMONT (Z) NSSHKCGEOEU Series

Used as power supply connection cable for mobile equipment in underground machine applications, such as coal shearer, roadheader, TBM's or scoops (LHDs). (Z)-Coal-Cutter cables are designed for free trailing operation and, due to their special construction, may be trailed for considerable distances behind the machine during operation.

Key Features

Free Trailing Design
Suitable for long trailing distances

Steel Braid Reinforced
Min. breaking load of 45 kN

Chemical Resistant
Oils, fuels & UV resistant

Electrical & Environmental Parameters

Parameter	Specification
Rated Voltage U0/U (Um)	0.6/1 (1.2) kV
Test Voltage	3 kV
AC Test Voltage (Control Cores)	2 kV
Nominal Voltage U	1,000 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
±10°/m

Travel Speed
150 m/min

Permanent tensile strength (rule): 40 N/mm² (min. breaking load of steel braid: 45 kN) | Bending radius per DIN VDE 0298 part 3.

Standards & Certifications

DIN VDE 0250-812 | IEC 60228 / VDE 0295 | DIN VDE 0298-4 | DIN EN 60811-404 | DIN EN 60332-1-2 | BAS Bosnia-Herzegovina | EAC | MSHA P-189-4

Cable Construction (9 Layers)

1. Very finely stranded copper conductor, tinned, class FS | **2.** Pilot element with double-concentric control/PE wire spinning | **3.** EPR rubber core insulation (PROTOLON, compound 3GI3) | **4.** PE conductor | **5.** Three main cores laid-up with double concentric control/PE and FO/PE conductors (natural color power cores, blue control cores) | **6.** Semi-conductive NBR easy-strip outer layer | **7.** EPR rubber inner sheath (compound GM1b) | **8.** Galvanized steel braiding (armoring) | **9.** Polychloroprene (PCP) outer sheath (PROTOFIRM, compound 5GM5)

Product Models

PROTOMONT (Z) NSSHKCGEOEU — 11 Standard Configurations

The PROTOMONT (Z) NSSHKCGEOEU series offers 11 standard configurations rated at 0.6/1 (1.2) kV, engineered with galvanized steel braid reinforcement for free trailing operation behind mining machinery.

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	39.2	42.2	2,700	3,000	370	0.33	**131**
3x35+3x(1,5STKON+16/3KON)	8.4	40.8	43.8	3,100	4,200	420	0.30	**162**
3x50+3x(1,5STKON+25/3KON)	10.1	46.2	49.2	4,000	6,000	450	0.28	**202**
3x70+3x(1,5STKON+35/3KON)	11.9	49.6	53.6	5,100	8,400	520	0.27	**250**
3x95+3x(1,5STKON+50/3KON)	14.0	56.8	60.8	6,700	11,400	550	0.27	**301**
3x120+3x(1,5STKON+70/3KON)	15.5	60.6	64.6	8,000	14,400	590	0.26	**352**
3x150+3x(1,5STKON+70/3KON)	17.6	67.0	71.0	9,740	18,000	610	0.26	**404**
3x150+3x(2x1,5STKON+70/3KON)	17.6	67.0	71.0	9,750	18,000	610	0.26	**404**
3x185+3x(1,5STKON+95/3KON)	19.1	72.0	76.0	11,500	22,200	630	0.26	**461**
3x240+3x(1,5STKON+120/3KON)	22.0	80.4	85.4	14,600	28,800	670	0.25	**540**
3x300+3x(1,5STKON+150/3KON)	24.8	89.1	94.1	18,700	36,000	700	0.25	**620**

MODEL SELECTION NOTE: The 3x150 configuration is available with either single (1,5STKON) or dual (2x1,5STKON) monitoring conductors, providing flexibility for applications requiring redundant control/earth monitoring.

Applications & Contact

Mining Solutions Worldwide

PROTOMONT (Z) NSSHKCGEOEU cables are engineered for free trailing operation, delivering reliable power to mobile mining machinery over considerable distances. Below are the primary use cases where this cable series excels.

Primary Applications

- **Coal Shearers:** Power supply for free trailing coal shearer operations
- **Roadheaders:** Reliable connections for underground roadheader machinery
- **TBMs:** Power supply for tunnel boring machines in extended trailing configurations
- **Scoops (LHDs):** Load-haul-dump equipment requiring long trailing cable runs
- **Free Trailing Operations:** Designed for considerable trailing distances behind mobile equipment
- **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 11 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

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