PROTOMONT (S)

Underground Reeling Cable | (N)SSHCGEOEU I 1 KV



PRODUCT TYPE
Underground Reeling Cable

MODEL
(N)SSHCGEOEU

RATED VOLTAGE
0.6/1 (1.2) kV

STANDARDS
DIN VDE, IEC, EAC, MA
China

MODEL RANGE
7 Configurations

APPLICATION
Reeling Cables for LHDs

CONTACT INFORMATION

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AnHui Feichun Special Cable Co., Ltd

Technical Specifications

PROTOMONT (S) (N)SSHCGEOEU Series

For frequently changing dynamic loads, such as reeling cables for scoops (LHDs) in underground mines, suitable for mono-spiral reels and cylindrical reels. High tensile strength through central reinforcement element and very high abrasion and tear resistance of the outer sheath.

Key Features

Reeling Optimized
Suitable for mono-spiral & cylindrical reels

Central Reinforcement
Aramid yarn support element

High Abrasion Resistance
Excellent tear-resistant outer sheath

Electrical & Environmental Parameters

Parameter	Specification
Rated Voltage U0/U (Um)	0.6/1 (1.2) kV (also permitted for 640/1140V)
Test Voltage	3 kV
AC Test Voltage (Control Cores)	2 kV
Conductor Temperature	90°C (250°C at short circuit)
Ambient Temperature (Fixed)	-40°C to +80°C
Ambient Temperature (Flexible)	-25°C to +60°C
Flame Retardant	EN/IEC 60332-1-2
Chemical Resistance	Oil, Ozone & UV resistant

Mechanical Properties

Torsional Stress
±50°/m

Travel Speed
160 m/min

Permanent tensile strength (rule): 30 N/mm² | Bending radius acc. to VDE 0298-3: 4 × D | 20 × D minimum distance with S-type directional changes.

Standards & Certifications

Based on DIN VDE 0250-812 | IEC 60228 / VDE 0295 | DIN VDE 0298-4 E | DIN EN 60811-404 | DIN EN 60332-1-2 | EAC | MA China

Cable Construction (7 Layers)

1. Very finely stranded copper conductor, tinned, class FS with double concentric control/earth wire spinning | **2.** EPR rubber core insulation (compound 3GI3) | **3.** Three main cores stranded with three control/earth cores, central aramid-yarn support element embedded in cradle separator (black, brown, grey identification) | **4.** Three control/earth cores in outer interstices | **5.** EPR rubber inner sheath (compound GM1b) | **6.** Polyester braiding | **7.** Polychloroprene (PCP) outer sheath (compound 5GM5)

Product Models

PROTOMONT (S) (N)SSHCGEOEU — 7 Standard Configurations

The PROTOMONT (S) (N)SSHCGEOEU series offers 7 standard configurations rated at 0.6/1 (1.2) kV, purpose-built as underground reeling cables for scoops (LHDs) with mono-spiral and cylindrical reels.

Model Configuration	Cond. (mm²)	Cable Ø Min	Cable Ø Max	Bend R. Moving	Bend R. Fixed	Weight (kg/km)	Tensile (N)	Capac. (nF/km)	Induct. (mH/km)	Current (A)
3x16+3x(1,5STKON+10/3KON)	5.8	31.1	34.4	138	138	1,850	1,440	500	0.30	**99**
3x25+3x(1,5STKON+16/3KON)	7.3	36.3	39.3	157	157	2,540	2,250	520	0.29	**131**
3x35+3x(1,5STKON+16/3KON)	8.4	41.2	44.2	177	177	3,130	3,150	600	0.28	**162**
3x50+3x(1,5STKON+25/3KON)	10.3	44.5	47.5	190	190	3,800	4,500	610	0.27	**202**
3x70+3x(1,5STKON+35/3KON)	12.0	47.3	50.3	201	201	4,500	6,300	700	0.26	**250**
3x95+3x(1,5STKON+50/3KON)	14.0	54.8	58.8	235	235	5,300	8,550	720	0.26	**301**
3x120+3x(1,5STKON+70/3KON)	15.8	58.7	62.7	251	251	6,100	10,800	790	0.25	**352**

NOTE: Bending radius values shown (moving/fixed, in mm) reflect the minimum radii for mono-spiral and cylindrical reel applications, in line with the central aramid-yarn reinforcement design.

Applications & Contact

Mining Solutions Worldwide

PROTOMONT (S) (N)SSHCGEOEU cables are engineered for frequently changing dynamic loads, delivering reliable power in reeling applications for underground mining equipment. Below are the primary use cases where this cable series excels.

Primary Applications

- **Scoops (LHDs):** Reeling cable for load-haul-dump equipment in underground mines
- **Mono-Spiral Reels:** Purpose-built for mono-spiral reel drum systems
- **Cylindrical Reels:** Compatible with cylindrical reel configurations
- **Dynamic Load Cycling:** Designed for frequently changing dynamic loads during operation
- **High-Abrasion Environments:** Outer sheath engineered for very high abrasion and tear resistance
- **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 7 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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