CORDAFLEX (S)

LHD Cable for Scoop Operations | NSHTOEU I 1 KV



PRODUCT TYPE
LHD Reeling Cable

MODEL
NSHTOEU

RATED VOLTAGE
0.6/1 (1.2) kV

STANDARDS
DIN VDE, MSHA, EAC

MODEL RANGE
6 Configurations

APPLICATION
Scoop (LHD) Operations

CONTACT INFORMATION

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AnHui Feichun Special Cable Co., Ltd

Technical Specifications

CORDAFLEX (S) NSHTOEU Series

For frequently changing dynamic loads, such as reeling cables for scoops (LHDs) in underground mines, suitable for mono-spiral reels and cylindrical reels.

Key Features

Aramid Yarn Core
Central support element with rubber covering

Reeling Optimized
Mono-spiral & cylindrical reel compatible

Chemical Resistant
Oils, fuels & UV resistant

Electrical & Environmental Parameters

Parameter	Specification
Rated Voltage U0/U (Um)	0.6/1 (1.2) kV (also permitted for 640/1140V)
Test Voltage	2.5 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
±25°/m

Travel Speed
max. 160 m/min

Permanent tensile strength (rule): 30 N/mm² | Bending radius acc. to VDE 0298-3: 4 × D fixed installation, 5 × D flexible operation | 20 × D minimum distance with S-type directional changes.

Standards & Certifications

DIN VDE 0250-814 | MSHA P-189-3 | EAC | DIN EN 60332-1-2 | DIN EN 60332-3-24 | DIN VDE 0298-4 | DIN EN 60811-404

Cable Construction (7 Layers)

1. Very finely stranded copper conductor, tinned, class FS | **2.** Cores laid up around central support element made of aramid yarns with rubber covering (power cores: black, grey, brown or natural with black numbers; PE: green-yellow) | **3.** EPR rubber core insulation (compound 3GI3) | **4.** Protective earth | **5.** Polychloroprene (PCP) inner sheath (PROTOFIRM, compound 5GM5) | **6.** Polyester braiding | **7.** Polychloroprene (PCP) outer sheath (PROTOFIRM, compound 5GM5)

Product Models

CORDAFLEX (S) NSHTOEU-J — 6 Standard Configurations

The CORDAFLEX (S) NSHTOEU-J series offers 6 standard configurations rated at 0.6/1 (1.2) kV, purpose-built as flexible reeling cables for scoop (LHD) operations in underground mines.

Model Configuration	Conductor Ø (mm²)	Cable Ø Min (mm)	Cable Ø Max (mm)	Weight (kg/km)	Tensile (N)	Current (A)
4x16 (6kN)	5.8	28.0	31.0	1,450	1,920	**99**
4x25 (6kN)	7.3	34.0	37.0	2,260	3,000	**131**
4x35 (12kN)	8.4	38.0	41.0	2,930	4,200	**162**
4x50 (30kN)	10.3	42.0	44.0	3,660	6,000	**202**
4x70 (20kN)	12.0	48.3	51.3	5,050	8,400	**250**
4x95 (50kN)	14.0	51.0	53.0	6,030	11,400	**301**

NOTE: Values in parentheses (kN) indicate the breaking load rating of the central aramid-yarn reinforcement element for each model configuration. Conductor resistance at 20°C ranges from 1.24 Ω/km (4x16) to 0.21 Ω/km (4x95).

Applications & Contact

Mining Solutions Worldwide

CORDAFLEX (S) NSHTOEU cables are engineered for frequently changing dynamic loads, delivering reliable power in reeling applications for scoop (LHD) equipment. Below are the primary use cases where this cable series excels.

Primary Applications

- **Scoops (LHDs):** Primary 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
- **Flexible Operation:** Aramid-yarn reinforced core for extended service life under reeling stress
- **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 6 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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Premium Quality • Global Reach • Local Expertise

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