PROTOMONT FESTOON

Underground Festoon Cable | NTSKCGECWOEU I 6 KV



PRODUCT TYPE
Underground Festoon Cable

MODEL
NTSKCGECWOEU

RATED VOLTAGE
3.6/6 (7.2) kV

STANDARDS
DIN VDE, GOST, WUG, MA
China

MODEL RANGE
14 Configurations

APPLICATION
Underground Festoon Systems

CONTACT INFORMATION

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AnHui Feichun Special Cable Co., Ltd

Technical Specifications

PROTOMONT FESTOON NTSKCGECWOEU Series

As power feeder cable in underground mines and in tunnel sites. The cables are used in underground festoon systems for the power supply of mobile transformer and shiftable units in underground mining applications.

Key Features

Medium Voltage Festoon
Rated at 3.6/6 (7.2) kV

Monitoring Conductors
Double concentric control/PE and FO/PE

Chemical Resistant
Oils, fuels & UV resistant

Electrical & Environmental Parameters

Parameter	Specification
Rated Voltage U0/U (Um)	3.6/6 (7.2) kV
Test Voltage	11 kV
AC Test Voltage (Control Cores)	2 kV
Nominal Voltage U	6,000 V
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

Mechanical Properties

Permanent Tensile Strength
15 N/mm²

Bending Radius
6×D fixed / 10×D flexible

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) | WUG Poland (6kV) | MA China | BAS Bosnia-Herzegovina

Cable Construction (9 Layers)

1. Finely stranded copper conductor, tinned, class 5 | **2.** Semi-conductive EPR inner layer | **3.** Concentric spinning of copper wires over each control core and FO element | **4.** EPR rubber core insulation (PROTOLON, compound 3GI3) | **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 | **7.** EPR rubber inner sheath (compound GM1b) | **8.** Spinning of steel / Cu-tinned wires (monitoring) | **9.** Polychloroprene (PCP) outer sheath (PROTOFIRM, compound 5GM5)

Product Models

PROTOMONT FESTOON NTSKCGECWOEU — 14 Standard Configurations

The PROTOMONT FESTOON NTSKCGECWOEU series is rated at 3.6/6 kV and offers 14 standard configurations across three construction types: single-monitoring-conductor 3-core, dual-monitoring-conductor 3-core, and 6-core festoon designs.

Single Monitoring Conductor — 7 Models

Model Configuration	Cond. (mm²)	Cable Ø Min	Cable Ø Max	Weight (kg/km)	Tensile (N)	Capac. (nF/km)	Induct. (mH/km)	Current (A)
3x35+3x(1,5STKON+25/3KON)+6UELKON	8.2	47.6	50.6	3,870	1,575	280	0.30	**162**
3x50+3x(1,5STKON+25/3KON)+6UELKON	9.8	50.6	54.6	4,600	2,250	330	0.29	**202**
3x70+3x(1,5STKON+35/3KON)+6UELKON	11.3	55.0	59.0	5,640	3,150	370	0.28	**250**
3x95+3x(1,5STKON+50/3KON)+6UELKON	13.4	60.3	64.3	6,910	4,275	420	0.27	**301**
3x120+3x(1,5STKON+70/3KON)+6UELKON	15.1	65.8	69.8	8,410	5,400	460	0.26	**352**
3x150+3x(1,5STKON+70/3KON)+6UELKON	16.8	69.7	73.7	9,700	6,750	510	0.25	**404**
3x185+3x(1,5STKON+95/3KON)+6UELKON	18.2	72.8	76.8	12,770	8,325	590	0.25	**461**

Dual Monitoring Conductor — 3 Models

Model Configuration	Cond. (mm²)	Cable Ø Min	Cable Ø Max	Weight (kg/km)	Tensile (N)	Capac. (nF/km)	Induct. (mH/km)	Current (A)
3x35+3x(2x1,5ST+25/3KON)+6UELKON	8.2	49.4	53.4	4,230	1,575	280	0.30	**162**
3x50+3x(2x1,5ST+25/3KON)+6UELKON	9.8	53.7	57.7	5,110	2,250	330	0.29	**202**
3x70+3x(2x1,5ST+35/3KON)+6UELKON	11.3	55.8	59.8	5,810	3,150	370	0.28	**250**

6-Core Festoon Construction — 4 Models

Model Configuration	Cond. (mm²)	Cable Ø Min	Cable Ø Max	Weight (kg/km)	Tensile (N)	Capac. (nF/km)	Induct. (mH/km)	Current (A)
6x35+6x35/6E+1x(6x1,5ST)+UELKON	8.2	60.2	64.2	6,180	3,150	340	0.44	**110**
6x50+6x50/6E+1x(6x1,5ST)+UELKON	9.8	67.2	71.2	7,870	4,500	450	0.39	**137**
6x70+6x70/6E+1x(6x1,5ST)+UELKON	11.3	71.4	75.4	9,670	6,300	580	0.35	**170**
6x95+6x95/6E+1x(6x1,5ST)+UELKON	13.4	80.2	84.2	11,900	8,550	700	0.33	**205**

Applications & Contact

Mining Solutions Worldwide

PROTOMONT FESTOON NTSKCGECWOEU cables are engineered as power feeder cables for underground festoon systems, delivering medium-voltage power to mobile transformers and shiftable units. Below are the primary use cases where this cable series excels.

Primary Applications

- **Underground Festoon Systems:** Power feeder cable for festoon systems in mines and tunnels
- **Mobile Transformers:** Power supply for mobile transformer units underground
- **Shiftable Units:** Reliable connections for shiftable mining equipment
- **Tunnel Sites:** Medium-voltage power distribution for tunnel infrastructure
- **Semi-Fixed Installations:** Suitable for festoon and semi-fixed cable routing systems
- **Extreme Conditions:** Rated for harsh environments with mechanical stress, 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 14 available options across three construction types • 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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