PROTOMONT

Rubber-Sheathed Flexible Cable with Copper Core Shield | (N)SSHOEU 3E I 1 KV



PRODUCT TYPE
Flexible Cable, Copper Core Shield

MODEL
(N)SSHOEU 3E

RATED VOLTAGE
0.6/1 (1.2) kV

STANDARDS
DIN VDE, IEC, EN 50363

MODEL RANGE
30 Configurations

APPLICATION
Mining, Tunneling, Quarries

CONTACT INFORMATION

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AnHui Feichun Special Cable Co., Ltd

Technical Specifications

PROTOMONT (N)SSHOEU 3E Series

The cables are suitable for fixed installation and flexible operation as power supply cables to motors, distribution boards, pumps, drilling rigs, etc., for underground mining applications, for tunnel building applications, for open-cast mining applications, for use in quarries and similar applications. Permitted for applications according to DIN VDE 0118.

Key Features

Copper Core Shield
Individual concentric protective-earth

Sea Water Resistant
Excellent, max. water depth 2,000 m

Versatile Application
Mining, tunneling, quarries & more

Electrical & Environmental Parameters

Parameter	Specification
Rated Voltage U0/U (Um)	0.6/1 (1.2) kV (also permitted for 640/1140V)
Peak Voltage	2,400 V
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
Sea Water Resistance	Excellent (max. depth 2,000 m)

Mechanical Properties

Permanent Tensile Strength
15 N/mm²

Bending Radius
4×D fixed / 5×D flexible

Standards & Certifications

Based on DIN VDE 0250-812 | IEC 60228 / VDE 0295 | DIN VDE 0293-308 | DIN EN 50363 | DIN VDE 0207-20/21 | DIN EN 60332-1-2 | DIN EN 50525-2-21 | DIN VDE 0298-4

Cable Construction (7 Layers)

1. Finely stranded copper conductor, bare, class 5 (individual or overall concentric spinning) | **2.** EPR rubber core insulation (PROTOLON, compound 3GI3) | **3.** Three main conductors laid-up with individual concentric protective-earth over insulation, control cores where applicable | **4.** Control core | **5.** Individual concentric spinning of bare copper wires (protective-earth) | **6.** Waterproof EPR rubber inner sheath | **7.** Chlorinated polyethylene (CM/CPE) outer sheath (compound 5GM5)

Product Models (1-15)

PROTOMONT (N)SSHOEU 3E — 30 Standard Configurations

The PROTOMONT (N)SSHOEU 3E series offers 30 standard configurations rated at 0.6/1 (1.2) kV, ranging from 1.5mm² to 240mm², with optional control core (ST) variants for enhanced monitoring capability.

Models 1–15 (1.5 mm² to 35 mm²)

Model Configuration	Cond. (mm²)	Cable Ø Min	Cable Ø Max	Weight (kg/km)	Tensile (N)	Capac. (nF/km)	Ind. (mH/km)	Curr. (A)
3x1,5+3x1,5/3E	1.6	12.5	14.1	279	68	210	0.33	**23**
3x2,5+3x2,5/3E	2.0	13.6	15.2	342	113	240	0.32	**30**
3x2,5+3x2,5/3E+3x1,5ST	2.0	17.1	19.1	517	113	240	0.32	**30**
3x4+3x4/3E	2.4	16.1	18.1	484	180	260	0.31	**41**
3x4+3x4/3E+3x1,5ST	2.4	17.8	19.8	588	180	260	0.31	**41**
3x6+3x6/3E	2.9	17.4	19.4	576	270	300	0.29	**53**
3x6+3x6/3E+3x1,5ST	2.9	18.4	20.4	651	270	300	0.29	**53**
3x10+3x10/3E	4.0	20.3	22.3	831	450	330	0.28	**74**
3x10+3x10/3E+3x2,5ST	4.0	22.1	24.1	977	450	330	0.28	**74**
3x16+3x16/3E	5.0	23.9	25.9	1,198	720	400	0.27	**99**
3x16+3x16/3E+3x2,5ST	5.0	23.9	25.9	1,263	720	400	0.27	**99**
3x25+3x16/3E	6.4	27.7	30.7	1,660	1,125	420	0.26	**131**
3x25+3x16/3E+3x2,5ST	6.4	27.7	30.7	1,710	1,125	420	0.26	**131**
3x35+3x16/3E	6.5	30.1	33.1	2,016	1,575	490	0.25	**162**
3x35+3x16/3E+3x2,5ST	7.5	30.1	33.1	2,070	1,575	490	0.25	**162**

Product Models (16-30)

PROTOMONT (N)SSHOEU 3E — 30 Standard Configurations

Models 16–30 (50 mm² to 240 mm²)

Model Configuration	Cond. (mm²)	Cable Ø Min	Cable Ø Max	Weight (kg/km)	Tensile (N)	Capac. (nF/km)	Ind. (mH/km)	Curr. (A)
3x50+3x25/3E	9.0	35.9	38.9	2,878	2,250	510	0.25	**202**
3x50+3x25/3E+3x2,5ST	9.0	35.9	38.9	2,929	2,250	510	0.25	**202**
3x70+3x35/3E	10.7	40.6	43.6	3,827	3,150	600	0.24	**250**
3x70+3x35/3E+3x2,5ST	10.7	40.6	43.6	3,924	3,150	600	0.24	**250**
3x70+3x35/3E+3x(2x1,5ST)	10.7	40.6	43.6	3,950	3,150	600	0.24	**250**
3x95+3x50/3E	12.3	45.5	48.5	4,936	4,275	610	0.24	**301**
3x95+3x50/3E+3x2,5ST	12.3	45.5	48.5	5,031	4,275	610	0.24	**301**
3x120+3x70/3E	14.3	51.9	55.9	6,415	5,400	700	0.23	**352**
3x120+3x70/3E+3x2,5ST	14.3	51.9	55.9	6,515	5,400	690	0.23	**352**
3x150+3x70/3E	16.0	56.2	60.2	7,591	6,750	700	0.23	**404**
3x150+3x70/3E+3x2,5ST	16.0	56.2	60.2	7,412	6,750	700	0.23	**404**
3x185+3x95/3E	17.7	62.8	66.8	9,421	8,325	700	0.23	**461**
3x185+3x95/3E+3x2,5ST	17.7	62.8	66.8	9,510	8,325	700	0.23	**461**
3x240+3x120/3E	20.3	69.6	73.6	11,930	10,800	710	0.22	**540**
3x240+3x120/3E+3x2,5ST	20.3	69.6	73.6	11,953	10,800	710	0.22	**540**

MODEL SELECTION NOTE: Models with "ST" suffix (e.g. 3x1,5ST, 3x2,5ST) include an additional control core for monitoring purposes. The 3x70+3x35/3E variant is also available with dual control cores (2x1,5ST) for redundant monitoring applications.

Applications & Contact

Mining Solutions Worldwide

PROTOMONT (N)SSHOEU 3E cables are engineered as versatile power supply cables for a wide range of fixed and flexible operation applications. Below are the primary use cases where this cable series excels.

Primary Applications

- **Motors:** Power supply cable for motor connections in industrial and mining settings
- **Distribution Boards:** Reliable connections for electrical distribution systems
- **Pumps & Drilling Rigs:** Power supply for pumping equipment and drilling operations
- **Underground Mining:** Fixed and flexible installation in underground mining environments
- **Tunnel Building:** Power distribution for tunnel construction projects
- **Open-Cast Mining & Quarries:** Versatile power supply for surface mining and quarry operations

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 30 available options • Choose with or without control cores (ST) • Specify length & quantity • Contact our sales team for 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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