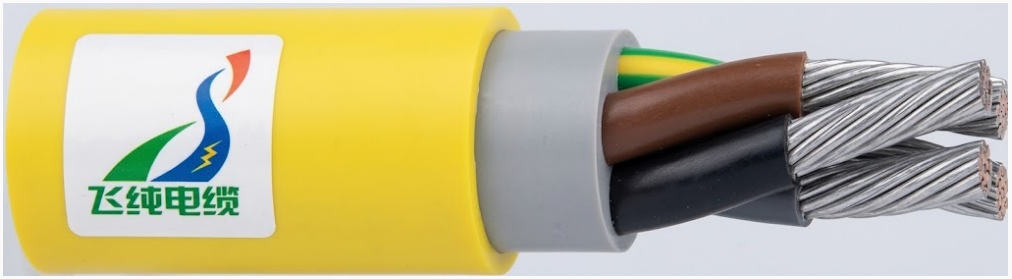
PROTOMONT NSSHOEU

Low Voltage Flexible Rubber Cable | 1 kV

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reelingcable.com



Flexible Rubber Cable for Mobile & Fixed Installation

PROTOMONT NSSHOEU is designed for flexible use and fixed installation in opencast mining applications, in quarries, on construction sites and similar applications with heavy mechanical stresses. The cables can be used indoors as well as outdoors, in explosion-hazard areas, in industry and in agriculture.

They can be used permanently in waste water up to 40°C at a depth of max. 2,000 m and in industrial water, cooling water, surface water, rainwater and mixed water — and in groundwater and seawater to a more limited extent.

Total Configurations: 79 — covering single-core through 24-core constructions, with conductor sizes from 1.5 mm² up to 500 mm².

Technical Summary & Specifications

ELECTRICAL

Rated Voltage U0/U: 0.6/1 (1.2) kV
Test Voltage: 3.5 kV
AC Test (control cores): 2 kV

THERMAL

Max conductor temp: 90°C
Short circuit temp: 250°C
Fixed install: -40 to +80°C
Flexible install: -25 to +60°C

MECHANICAL

Torsional stress: ±100°/m
Tensile strength: 15 N/mm² static
Bend radius: 4×D fixed / 5×D flexible

CHEMICAL

Flame Retardant: ✓ EN/IEC 60332-1-2
Oil / Ozone / UV: ✓ Resistant
Sea Water Resistance: Excellent
Max Water Depth: 2,000 m

Standards: DIN VDE 0250-812 • MSHA P-189-3 • DIN EN 60228 / IEC 60228 / VDE 0295 • DIN VDE 0293-308 • DIN EN 50363 / DIN VDE 0207-20 • DIN EN 50363 / DIN VDE 0207-21 • DIN EN 60332-1-2 / IEC 60332-1-2 • DIN VDE 0298-4 • DIN EN 50525-2-21 • DIN EN 60811-404 / IEC 60811-404

Cable Construction

Conductor & Insulation

1. Conductor — finely stranded copper, tinned, class 5
2. Core insulation — EPR rubber (PROTOLON Special compound 3G13)

Core Arrangement

3. Three, four or five cores laid-up

Sheath

5. Inner sheath — rubber, Special EPR compound, waterproof
6. Outer sheath — chlorinated polyethylene (CM/CPE), Special compound 5GM5

Complete Specifications — Single-Core & 2-Core (16 Configurations)

PROTOMONT NSSHOEU 0.6/1kV — Single-Core (13 Configurations)

Basic Construction (mm²)	Conductor Ø (mm)	Cable Ø min (mm)	Cable Ø max (mm)	Bend Radius Moving (mm)	Bend Radius Fix (mm)	Cable Weight (kg/km)	Max. Tensile Strength (N)	Nominal Capacitance (nF/km)	Operation Inductance (mH/km)	Conductor Resistance at 20°C (Ω/km)	Current (A)
1×16	5.4	10.6	11.6	46	35	240	240	420	0.26	1.24	135
1×25	6.3	12.8	13.7	69	55	360	375	420	0.26	0.795	178
1×35	7.4	13.7	14.9	75	60	460	525	490	0.25	0.565	220
1×50	8.8	15.2	16.7	84	67	630	750	510	0.25	0.393	275
1×70	10.6	14.5	18.8	94	75	850	1,050	590	0.24	0.277	340
1×95	12.1	19.4	20.9	105	84	1,070	1,425	600	0.24	0.21	409
1×120	14.3	18.3	23.4	117	94	1,370	1,800	690	0.23	0.164	479
1×150	15.9	23.9	25.4	127	102	1,660	2,250	690	0.23	0.132	549
1×185	17.5	26.6	28.8	144	115	2,060	2,775	680	0.23	0.108	627
1×240	20.3	29.8	32	160	128	2,630	3,600	730	0.23	0.0817	734
1×300	23.1	34.6	36.8	184	147	3,300	4,500	760	0.23	0.0654	843
1×400	26.2	38.5	40.5	203	162	4,260	6,000	760	0.24	0.0495	1,024
1×500	29.7	41.4	44.4	222	178	5,300	7,500	770	0.24	0.0391	1,178

PROTOMONT NSSHOEU 0.6/1kV — 2-Core (3 Configurations)

Basic Construction (mm²)	Conductor Ø (mm)	Cable Ø min (mm)	Cable Ø max (mm)	Bend Radius Moving (mm)	Bend Radius Fix (mm)	Cable Weight (kg/km)	Max. Tensile Strength (N)	Nominal Capacitance (nF/km)	Operation Inductance (mH/km)	Conductor Resistance at 20°C (Ω/km)	Current (A)
2×1.5	1.6	10.3	11.9	48	36	170	45	220	0.33	13.7	23
2×2.5	1.9	11.4	13	65	52	210	75	230	0.32	8.21	30
2×4	2.4	7.5	9.5	73	58	220	120	260	0.31	5.09	41

Complete Specifications — 3-Core (19 Configurations)

PROTOMONT NSSHOEU 0.6/1kV — 3-Core (19 Configurations)

Basic Construction (mm²)	Conductor Ø (mm)	Cable Ø min (mm)	Cable Ø max (mm)	Bend Radius Moving (mm)	Bend Radius Fix (mm)	Cable Weight (kg/km)	Max. Tensile Strength (N)	Nominal Capacitance (nF/km)	Operation Inductance (mH/km)	Conductor Resistance at 20°C (Ω/km)	Current (A)
3×1.5-O	1.6	10.8	12.4	62	50	180	68	220	0.33	13.7	23
3×1.5-J	1.6	10.7	12.3	62	49	190	68	220	0.33	13.7	23
3×2.5-O	1.9	12	13.6	68	54	240	113	230	0.32	8.21	30
3×2.5-J	1.9	12	13.6	68	54	240	113	230	0.32	8.21	30
3×4-J	2.4	14.2	16.2	81	65	350	180	260	0.31	5.09	41
3×4-O	2.4	14.2	16.2	81	65	350	180	260	0.31	5.09	41
3×10-O	3.9	20.7	21.8	109	87	680	450	320	0.28	1.95	74
3×16-O	5.4	22.2	24.2	121	97	890	720	420	0.26	1.24	99
3×25-O	6.3	26.8	28.5	143	114	1,330	1,125	420	0.26	0.795	131
3×35-O	7.5	29.5	32.5	163	130	1,770	1,575	490	0.25	0.565	162
3×50-O	8.9	35.2	38.3	192	153	2,450	2,250	550	0.27	0.393	202
3×70-O	10.6	39.1	42.1	211	168	3,170	3,150	570	0.28	0.277	250
3×240-O BLACK	20.3	67	71	382	306	9,640	14,400	730	0.23	0.0817	540
3×50/25	8.8	38.2	41.2	206	165	2,890	3,000	510	0.25	0.393	202
3×70/35	10.6	42.5	45.5	228	182	3,750	4,200	590	0.24	0.277	250
3×95/50	12.1	48.3	52.3	262	209	4,940	5,700	600	0.24	0.21	301
3×120/70	14.2	54.8	58.8	294	235	6,380	7,200	690	0.23	0.164	352
3×150/70	16.1	60.2	64.2	321	257	7,660	9,000	700	0.23	0.132	404
3×185/95	17.9	67.3	71.3	357	285	9,490	11,100	710	0.23	0.108	461

Complete Specifications — 4-Core (18 Configurations)

PROTOMONT NSSHOEU 0.6/1kV — 4-Core (18 Configurations)

Basic Construction (mm²)	Conductor Ø (mm)	Cable Ø min (mm)	Cable Ø max (mm)	Bend Radius Moving (mm)	Bend Radius Fix (mm)	Cable Weight (kg/km)	Max. Tensile Strength (N)	Nominal Capacitance (nF/km)	Operation Inductance (mH/km)	Conductor Resistance at 20°C (Ω/km)	Current (A)
4×1.5-O	1.6	12	13.1	66	52	220	90	220	0.33	13.7	23
4×1.5-J	1.6	11.5	13.1	66	52	220	90	220	0.33	13.7	23
4×2.5-J	1.9	13.7	15.7	79	63	320	150	230	0.32	8.21	30
4×4-J	2.4	15.3	17.3	87	69	420	240	260	0.31	5.09	41
4×6-J	2.9	16.5	18.5	93	74	520	360	300	0.29	3.39	53
4×10-J	3.9	20.9	22.9	115	92	830	600	320	0.28	1.95	74
4×16-J	5.4	25.9	27.6	138	110	1,190	960	420	0.26	1.24	99
4×16+4×2.5	5.4	27.1	30.1	151	120	1,480	960	420	0.26	1.24	99
4×25-J	6.3	29.3	32.3	162	129	1,740	1,500	420	0.26	0.795	131
4×35-J	7.5	32.1	35.1	176	140	2,200	2,100	490	0.25	0.565	162
4×50-J	8.8	38.2	41.2	206	165	3,050	3,000	510	0.25	0.393	202
4×50+1×(4×2.5)	8.8	42.4	45.4	227	182	3,700	3,000	510	0.25	0.393	202
4×70-J	10.6	42.5	45.5	228	182	3,980	4,200	590	0.24	0.277	250
4×95-J	12.1	48.3	52.3	262	209	5,220	5,700	600	0.24	0.21	301
4×120-J	14.2	54.8	58.8	294	235	6,690	7,200	690	0.23	0.164	352
4×150-J	16.1	60.2	64.2	321	257	8,140	9,000	700	0.23	0.132	404
4×185-J	17.9	67.3	71.3	357	285	10,010	11,100	710	0.23	0.108	461
4×240-J	20.3	72.4	76.4	382	306	12,240	14,400	730	0.23	0.0817	540

Complete Specifications — 5-Core, 7-Core & 8-Core (16 Configurations)

PROTOMONT NSSHOEU 0.6/1kV — 5-Core (11 Configurations)

Basic Construction (mm²)	Conductor Ø (mm)	Cable Ø min (mm)	Cable Ø max (mm)	Bend Radius Moving (mm)	Bend Radius Fix (mm)	Cable Weight (kg/km)	Max. Tensile Strength (N)	Nominal Capacitance (nF/km)	Operation Inductance (mH/km)	Conductor Resistance at 20°C (Ω/km)	Current (A)
5×1.5-J	1.6	12.4	14	70	56	250	113	220	0.33	13.7	23
5×2.5	1.9	14.7	16.7	84	67	370	188	230	0.32	8.21	30
5×4	2.4	16.5	18.5	93	74	490	300	260	0.31	5.09	41
5×6	2.9	18.6	20.6	103	82	650	450	300	0.29	3.39	53
5×10	3.9	22.5	24.5	123	98	980	750	320	0.28	1.95	74
5×16	5.4	26.7	29.7	149	119	1,420	1,200	420	0.26	1.24	99
5×25	6.3	31.8	34.8	174	139	2,080	1,875	420	0.26	0.795	131
5×35	7.5	37.1	40.1	201	160	2,760	2,625	490	0.25	0.565	162
5×50	8.8	46.4	44.5	223	178	3,670	3,750	510	0.25	0.393	202
5×70	10.6	47	51	255	204	5,050	5,250	570	0.24	0.277	250
5×95	12.1	53.4	57.4	287	230	6,450	7,125	650	0.24	0.21	301

PROTOMONT NSSHOEU 0.6/1kV — 7-Core (3 Configurations)

Basic Construction (mm²)	Conductor Ø (mm)	Cable Ø min (mm)	Cable Ø max (mm)	Bend Radius Moving (mm)	Bend Radius Fix (mm)	Cable Weight (kg/km)	Max. Tensile Strength (N)	Nominal Capacitance (nF/km)	Operation Inductance (mH/km)	Conductor Resistance at 20°C (Ω/km)	Current (A)
7×1.5	1.6	14.9	16.9	85	68	380	158	220	0.33	13.7	23
7×2.5	1.9	16.9	18.9	95	76	500	263	240	0.32	8.21	30
7×4	2.4	20	22	110	88	710	420	260	0.31	5.09	41

PROTOMONT NSSHOEU 0.6/1kV — 8-Core (2 Configurations)

Basic Construction (mm²)	Conductor Ø (mm)	Cable Ø min (mm)	Cable Ø max (mm)	Bend Radius Moving (mm)	Bend Radius Fix (mm)	Cable Weight (kg/km)	Max. Tensile Strength (N)	Nominal Capacitance (nF/km)	Operation Inductance (mH/km)	Conductor Resistance at 20°C (Ω/km)	Current (A)
8×1.5	1.6	16.1	18.1	91	72	430	180	220	0.33	13.7	23
8×2.5	1.9	19	20.6	103	83	600	300	240	0.32	8.21	30

Complete Specifications — 10 to 24-Core (10 Configurations) & Summary

PROTOMONT NSSHOEU 0.6/1kV — 10 to 24-Core (10 Configurations)

Basic Construction (mm²)	Conductor Ø (mm)	Cable Ø min (mm)	Cable Ø max (mm)	Bend Radius Moving (mm)	Bend Radius Fix (mm)	Cable Weight (kg/km)	Max. Tensile Strength (N)	Nominal Capacitance (nF/km)	Operation Inductance (mH/km)	Conductor Resistance at 20°C (Ω/km)	Current (A)
10×1.5	1.6	17.7	19.7	99	79	470	225	220	0.33	13.7	23
10×2.5	2	22.6	23.6	118	94	650	375	240	0.32	8.21	30
12×1.5	1.6	13	20.3	102	81	560	270	220	0.33	13.7	23
12×2.5	1.9	20.7	22.7	114	91	750	450	240	0.32	8.21	30
12×4	2.4	23.5	26.5	133	106	1,060	720	260	0.31	5.09	41
18×2.5	1.9	24.5	27.5	138	110	1,070	675	240	0.32	8.21	30
19×1.5	1.6	19.7	23.7	119	95	790	428	220	0.33	13.7	23
19×2.5	2	26	28	140	112	1,140	713	240	0.32	8.21	30
24×2.5	1.9	27.6	30.6	153	122	1,360	900	230	0.32	8.21	30
24×1.5	1.6	24.3	27.3	137	109	950	540	220	0.33	13.7	23

Configuration Summary — All 79 Specifications

Core Count Group	Configurations	Conductor Range	Current Range (A)
Single-Core (1×)	13	16 – 500 mm²	135 – 1,178
2-Core	3	1.5 – 4 mm²	23 – 41
3-Core	19	1.5 – 240 mm²	23 – 540
4-Core	18	1.5 – 240 mm²	23 – 540
5-Core	11	1.5 – 95 mm²	23 – 301
7-Core	3	1.5 – 4 mm²	23 – 41
8-Core	2	1.5 – 2.5 mm²	23 – 30
10 to 24-Core	10	1.5 – 4 mm²	23 – 41
TOTAL: 79 Complete Specifications			

Applications & Ordering Information

Suitable for flexible use and fixed installation in opencast mining, quarries, construction sites, explosion-hazard areas, industry and agriculture. Usable permanently in waste water up to 40°C at depths up to 2,000 m, and in industrial water, cooling water, surface water, rainwater and mixed water; also suitable for groundwater and seawater to a more limited extent. For custom lengths, drum packaging, or technical consultation, please contact us directly via WhatsApp or visit our websites below. All 79 standard configurations are available ex-works with standard lead times.

Contact AnHui Feichun Special Cable Co., Ltd
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