



DIN VDE 0250-812 / 813 mining trailing cables

NSSHKCGERLÖU

Armoured Coal-Cutter Cable

DIN VDE 0250-812 0.6/1 kV & 1.8/3 kV steel-strand armoured (RL) coal-cutter trailing cable



DIN VDE 0250-812

0.6/1 kV · 1.8/3 kV

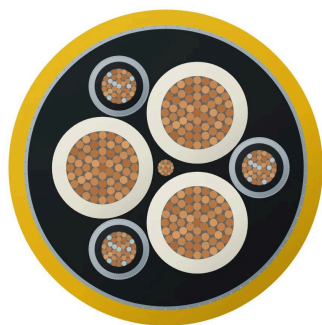
RL Armour · CGE + K

Application

NSSHKCGERLÖU is a DIN VDE 0250-812 0.6/1 kV and 1.8/3 kV armoured underground coal-cutter trailing cable combining a heavy-duty NSSH rubber core structure, K pilot/control bundle, semi-conductive and copper screening (CGE), and flexible galvanized steel

Typical uses: Underground longwall coal faces, 1000 V / 3300 V shearers & roadheaders, Armoured face conveyor feeders, Potash & hard-salt underground mining

Construction



Cross-section, not to scale

1	Phase & K control conductors	DIN EN 60228 Class 5
2	Core insulation (3GI3)	DIN VDE 0207-20
3	Semicon & copper screen (CGE)	DIN VDE 0250-812
4	Core & K pilot lay-up	DIN VDE 0250-812
5	Inner sheath	DIN VDE 0207-21
6	Steel strand armour (RL)	DIN VDE 0250-812
7	Outer sheath (5GM5)	DIN VDE 0207-21

Technical data

Typical values

Rated voltage U ₀ /U	0.6/1 kV (U _{max} 1.2 kV) · 1.8/3 kV (U _{max} 3.6)	AC routine test voltage	3.0 kV rms (0.6/1 kV) · 6.5 kV rms (1.8/3 kV)
Control/pilot bundle rating	230/400 V or 0.6/1 kV (2.0 kV AC test)	Insulation resistance @ 20 °C	≥ 100 MΩ·km
Max. conductor operating temp.	+90 °C	Max. short-circuit temperature	+250 °C (5 s)
Ambient temperature (flexing)	-25 °C to +60 °C	Ambient temperature (fixed)	-40 °C to +80 °C
Armour type	Flexible galvanized steel wire strands (RL)	Max. tensile load	Up to 30 N/mm ² including RL steel strand
Min. bending radius (fixed)	6 × D fixed · 10 × D flexing	Oil & hydraulic emulsion	DIN EN 60811-404 resistant
Flame retardancy	DIN EN 60332-1-2 self-extinguishing	Abrasion & crush resistance	5GM5 outer jacket + RL steel strand armour
Standards	DIN VDE 0250-812		

Sizes

10 standard constructions

Tick the sizes you need and send this page to info@tebaoflex.com or WhatsApp +86 185 9591 3361.

Order designation	Configuration	Phase size mm ²	Outer Ø ≈ mm	Copper kg/km	Weight ≈ kg/km	Min. bend R fixed mm
Standard NSSHKCGERLÖU configurations 10 sizes						
☐ NSSHKCGERLÖU 3×25+4×2.5K+16E 0.6/1 kV	3×25 + 4×2.5K + 16E (0.6/1 kV)	25	41.0	1,020	2,740	246
☐ NSSHKCGERLÖU 3×35+4×2.5K+16E 0.6/1 kV	3×35 + 4×2.5K + 16E (0.6/1 kV)	35	44.2	1,310	3,240	265
☐ NSSHKCGERLÖU 3×50+4×4K+25E 0.6/1 kV	3×50 + 4×4K + 25E (0.6/1 kV)	50	48.8	1,890	4,050	293
☐ NSSHKCGERLÖU 3×70+4×4K+35E 0.6/1 kV	3×70 + 4×4K + 35E (0.6/1 kV)	70	53.6	2,580	5,020	322
☐ NSSHKCGERLÖU 3×95+4×4K+50E 0.6/1 kV	3×95 + 4×4K + 50E (0.6/1 kV)	95	59.0	3,510	6,290	354
☐ NSSHKCGERLÖU 3×120+4×4K+70E 0.6/1 kV	3×120 + 4×4K + 70E (0.6/1 kV)	120	63.8	4,450	7,560	383
☐ NSSHKCGERLÖU 3×35+4×4K+16E 1.8/3 kV	3×35 + 4×4K + 16E (1.8/3 kV)	35	46.8	1,365	3,590	281
☐ NSSHKCGERLÖU 3×50+4×4K+25E 1.8/3 kV	3×50 + 4×4K + 25E (1.8/3 kV)	50	51.4	1,915	4,420	308
☐ NSSHKCGERLÖU 3×70+4×4K+35E 1.8/3 kV	3×70 + 4×4K + 35E (1.8/3 kV)	70	56.2	2,605	5,440	337
☐ NSSHKCGERLÖU 3×95+4×4K+50E 1.8/3 kV	3×95 + 4×4K + 50E (1.8/3 kV)	95	61.5	3,535	6,750	369

– Outer diameters and weights are nominal factory values subject to ±5 % manufacturing tolerance per DIN VDE 0250-812.

Electrical & ampacity data

10 sizes

Configuration	Max. DC R @ 20 °C Ω/km	Current rating in air (A)	Current rating installed (A)	Mutual C pF/m≈	AC test V _{rms}
3×25 + 4×2.5K + 16E (0.6/1 kV)	0.799	122	104	151	3,500
3×35 + 4×2.5K + 16E (0.6/1 kV)	0.568	150	128	168	3,500
3×50 + 4×4K + 25E (0.6/1 kV)	0.396	187	159	192	3,500
3×70 + 4×4K + 35E (0.6/1 kV)	0.279	229	195	226	3,500
3×95 + 4×4K + 50E (0.6/1 kV)	0.211	276	235	267	3,500
3×120 + 4×4K + 70E (0.6/1 kV)	0.165	319	271	308	3,500
3×35 + 4×4K + 16E (1.8/3 kV)	0.568	150	128	168	6,500
3×50 + 4×4K + 25E (1.8/3 kV)	0.396	187	159	192	6,500
3×70 + 4×4K + 35E (1.8/3 kV)	0.279	229	195	226	6,500
3×95 + 4×4K + 50E (1.8/3 kV)	0.211	276	235	267	6,500

– Current ratings apply at +30 °C ambient in free air; apply standard derating factors for elevated ambient or drum layers.

Standards and approvals

- ✓ DIN VDE 0250-812
- ✓ DIN EN 60332-1-2
- ✓ EN 10204 3.1

Certifications



Management systems: ISO 9001, ISO 14001, ISO 45001

Request a quotation

Send the size, length and destination. An application engineer replies within 2 business hours.

WhatsApp / phone

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Email

info@tebaoflex.com

Web

tebaoflex.com/cables/nsshkcgerloeu-armoured-coal-cutter-cable



Typical values for this cable type, based on DIN VDE 0250-812. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.