



DIN VDE 0250-812 / 813 mining trailing cables

NTSKCGERLÖU

Armoured MV Coal-Cutter Cable

DIN VDE 0250-813 3.6/6 kV & 6/10 kV steel-strand armoured (RL) MV coal-cutter trailing



DIN VDE 0250-813

3.6/6 kV · 6/10 kV

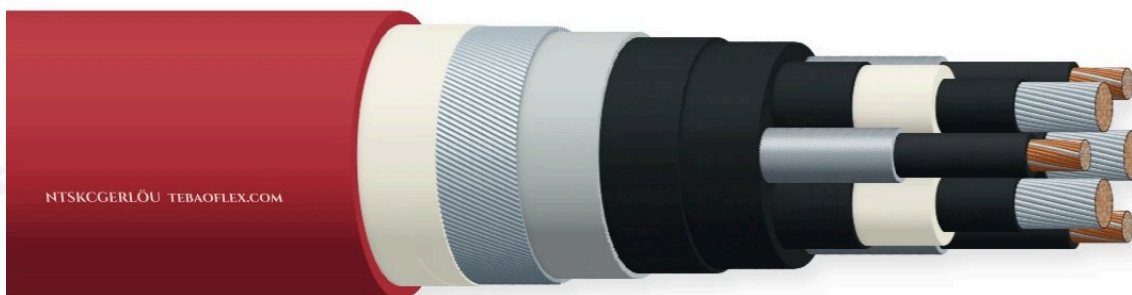
RL Steel-Strand Armour

Application

NTSKCGERLÖU is a heavy-duty steel-strand armoured (RL = Runddraht-Litzenbewehrung) medium-voltage (3.6/6 kV and 6/10 kV) coal-cutter trailing cable built to DIN VDE 0250-813 with triple-extruded 3GI3 EPR insulation, CGE screening, K pilot/control cores

Typical uses: Deep longwall coal mining, Armoured face conveyor (AFC) drives, Heavy potash & rock-salt shearers, Inclined mine gallery feeders

Construction



Cross-section, not to scale

1	Phase & K control conductors	DIN EN 60228 Class 5
2	Inner & outer semicon (GE)	DIN VDE 0250-813
3	MV EPR insulation (3GI3)	DIN VDE 0207-20
4	Core copper/semicon screen (C)	DIN VDE 0250-813
5	Inner sheath	DIN VDE 0250-813
6	Steel strand armour (RL)	DIN VDE 0250-813
7	Outer sheath (5GM5)	DIN VDE 0207-21

Technical data

Typical values

Rated voltage U ₀ /U	3.6/6 kV (U _{max} 7.2 kV) · 6/10 kV (U _{max} 12 kV)	AC routine test voltage	11 kV rms (3.6/6 kV) · 17 kV rms (6/10 kV)
Partial discharge level	≤ 20 pC at 2 U ₀	Pilot / control bundle voltage	0.6/1 kV (2.5 kV AC test)
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 construction	Flexible multi-wire galvanized steel	Crush & impact resistance	> 30 kJ impact rating for longwall face
Min. bending radius (fixed)	8 × D fixed · 12 × D flexing	Oil & hydraulic emulsion	DIN EN 60811-404 resistant
Flame propagation	DIN EN 60332-1-2 self-extinguishing	Corrosion protection	Heavy zinc-coated steel strands embedded in
Standards	DIN VDE 0250-813		

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 NTSKCGERLÖU configurations 10 sizes						
☐ NTSKCGERLÖU 3×35+4×4K+25E 3.6/6 kV	3×35 + 4×4K + 25E (3.6/6 kV)	35	52.5	1,490	4,180	315
☐ NTSKCGERLÖU 3×50+4×4K+25E 3.6/6 kV	3×50 + 4×4K + 25E (3.6/6 kV)	50	56.8	1,930	4,950	341
☐ NTSKCGERLÖU 3×70+4×4K+35E 3.6/6 kV	3×70 + 4×4K + 35E (3.6/6 kV)	70	61.5	2,610	6,020	369
☐ NTSKCGERLÖU 3×95+4×4K+50E 3.6/6 kV	3×95 + 4×4K + 50E (3.6/6 kV)	95	67.0	3,530	7,410	402
☐ NTSKCGERLÖU 3×120+4×4K+70E 3.6/6 kV	3×120 + 4×4K + 70E (3.6/6 kV)	120	71.8	4,470	8,820	431
☐ NTSKCGERLÖU 3×150+4×4K+70E 3.6/6 kV	3×150 + 4×4K + 70E (3.6/6 kV)	150	76.5	5,340	10,150	459
☐ NTSKCGERLÖU 3×50+4×4K+25E 6/10 kV	3×50 + 4×4K + 25E (6/10 kV)	50	60.2	1,960	5,420	361
☐ NTSKCGERLÖU 3×70+4×4K+35E 6/10 kV	3×70 + 4×4K + 35E (6/10 kV)	70	65.0	2,650	6,540	390
☐ NTSKCGERLÖU 3×95+4×4K+50E 6/10 kV	3×95 + 4×4K + 50E (6/10 kV)	95	70.4	3,570	7,980	422
☐ NTSKCGERLÖU 3×120+4×4K+70E 6/10 kV	3×120 + 4×4K + 70E (6/10 kV)	120	75.2	4,510	9,450	451

– Outer diameters and weights are nominal factory values subject to ±5 % manufacturing tolerance per DIN VDE 0250-813.

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}
3×35 + 4×4K + 25E (3.6/6 kV)	0.568	150	128	168	11,000
3×50 + 4×4K + 25E (3.6/6 kV)	0.396	187	159	192	11,000
3×70 + 4×4K + 35E (3.6/6 kV)	0.279	229	195	226	11,000
3×95 + 4×4K + 50E (3.6/6 kV)	0.211	276	235	267	11,000
3×120 + 4×4K + 70E (3.6/6 kV)	0.165	319	271	308	11,000
3×150 + 4×4K + 70E (3.6/6 kV)	0.132	365	310	358	11,000
3×50 + 4×4K + 25E (6/10 kV)	0.396	187	159	192	17,000
3×70 + 4×4K + 35E (6/10 kV)	0.279	229	195	226	17,000
3×95 + 4×4K + 50E (6/10 kV)	0.211	276	235	267	17,000
3×120 + 4×4K + 70E (6/10 kV)	0.165	319	271	308	17,000

– 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 0250-813
- ✓ 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

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Web

tebaoflex.com/cables/ntskcgerloeu-armoured-mv-coal-cutter-cable



Typical values for this cable type, based on DIN VDE 0250-813. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.