



DIN VDE 0250-812 / 813 mining trailing cables

NSHCGEÖU KON+ST+ÜL

Mining Trailing Cable

DIN VDE 0250-812 0.6/1 kV mining trailing cable with KON concentric earth, ST control &



DIN VDE 0250-812

0.6/1 kV · KON+ST+ÜL

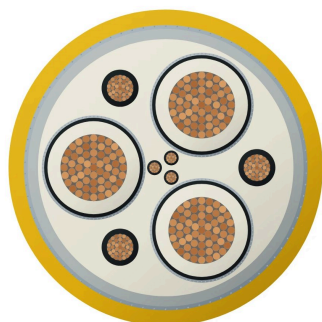
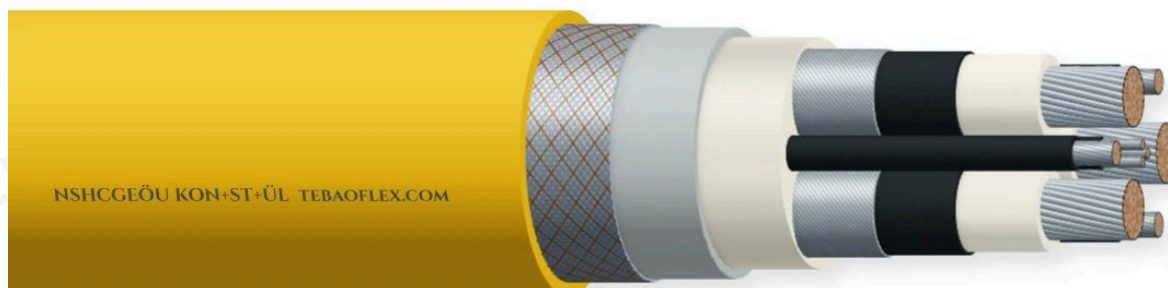
3GI3 EPR + 5GM5 PCP

Application

NSHCGEÖU KON+ST+ÜL is a heavy-duty DIN VDE 0250-812 0.6/1 kV (and 1.8/3 kV) underground mining trailing cable featuring semi-conductive field/fault screening (GE), an overall concentric copper/steel earth-and-monitoring screen (KON + ÜL), and integrated

Typical uses: Underground coal & potash mining, Roadheader & continuous miner feeders, Longwall gate-end distribution, Tunnel gallery excavation

Construction



Cross-section, not to scale

1	Phase & ST control conductors	DIN EN 60228 Class 5
2	Core insulation (3GI3)	DIN VDE 0207-20
3	Core & control lay-up	DIN VDE 0250-812
4	Inner sheath & GE layer	DIN VDE 0250-812
5	Concentric KON + ÜL screen	DIN VDE 0250-812
6	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)
AC test voltage (power / control)	3.0 kV rms / 2.0 kV rms (5 min)
Max. conductor operating temp.	+90 °C
Ambient temperature (flexing)	-25 °C to +60 °C
Max. tensile load on copper	15 N/mm ²
Min. bending radius (flexing)	10 × cable outer diameter
Oil resistance	DIN EN 60811-404 (5GM5 compound)
Abrasion & tear resistance	DIN VDE 0250-812 underground mining grade

Control & ÜL core voltage	230/400 V AC
Screen transfer impedance	Low-impedance concentric KON copper fault
Max. short-circuit temperature	+250 °C (5 s)
Ambient temperature (fixed)	-40 °C to +80 °C
Min. bending radius (fixed)	5 × cable outer diameter
Impact & crush protection	Concentric KON screen + semi-conductive GE
Flame retardancy	DIN EN 60332-1-2 self-extinguishing
Standards	DIN VDE 0250-812 (derived NSHCGEÖU design)

Sizes

8 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 NSHCGEÖU KON+ST+ÜL configurations 8 sizes						
☐ NSHCGEÖU 3×16+4×2.5ST+16KON+ÜL	3×16 + 4×2.5 ST + 16 KON + ÜL	16	31.5	740	1,460	189
☐ NSHCGEÖU 3×25+4×2.5ST+16KON+ÜL	3×25 + 4×2.5 ST + 16 KON + ÜL	25	35.0	1,005	1,850	210
☐ NSHCGEÖU 3×35+4×2.5ST+16KON+ÜL	3×35 + 4×2.5 ST + 16 KON + ÜL	35	38.2	1,295	2,260	229
☐ NSHCGEÖU 3×50+4×2.5ST+25KON+ÜL	3×50 + 4×2.5 ST + 25 KON + ÜL	50	43.0	1,825	2,980	258
☐ NSHCGEÖU 3×70+4×2.5ST+35KON+ÜL	3×70 + 4×2.5 ST + 35 KON + ÜL	70	47.8	2,510	3,910	287
☐ NSHCGEÖU 3×95+4×2.5ST+50KON+ÜL	3×95 + 4×2.5 ST + 50 KON + ÜL	95	53.4	3,430	5,060	320
☐ NSHCGEÖU 3×120+4×2.5ST+70KON+ÜL	3×120 + 4×2.5 ST + 70 KON + ÜL	120	58.0	4,380	6,240	348
☐ NSHCGEÖU 3×150+4×2.5ST+70KON+ÜL	3×150 + 4×2.5 ST + 70 KON + ÜL	150	62.5	5,240	7,380	375

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

Electrical & ampacity data

8 sizes

Configuration	Max. DCR @ 20 °C Ω/km	Current rating in air (A)	Current rating installed (A)	Mutual C pF/m≈	AC test V _{rms}
3×16 + 4×2.5 ST + 16 KON + ÜL	1.240	93	79	136	3,500
3×25 + 4×2.5 ST + 16 KON + ÜL	0.799	122	104	151	3,500
3×35 + 4×2.5 ST + 16 KON + ÜL	0.568	150	128	168	3,500
3×50 + 4×2.5 ST + 25 KON + ÜL	0.396	187	159	192	3,500
3×70 + 4×2.5 ST + 35 KON + ÜL	0.279	229	195	226	3,500
3×95 + 4×2.5 ST + 50 KON + ÜL	0.211	276	235	267	3,500
3×120 + 4×2.5 ST + 70 KON + ÜL	0.165	319	271	308	3,500
3×150 + 4×2.5 ST + 70 KON + ÜL	0.132	365	310	358	3,500

– 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
- ✓ RoHS / CE

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

+86 185 9591 3361

Email

info@tebaoflex.com

Web

tebaoflex.com/cables/nshcgeou-mining-trailing-cable-with-concentric-monitoring



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.