

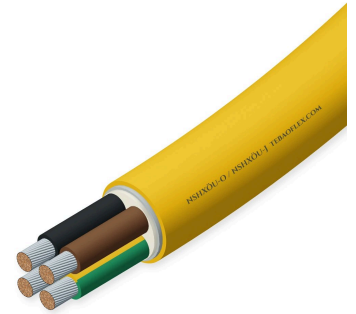


Heavy-duty rubber cables (NSSHÖU)

NSHXÖU-O / NSHXÖU-J

NSHXÖU Flexible Mining and Industrial Rubber

0.6/1 kV DIN VDE 0250-812 heavy-duty rubber cable with 3GI3 EPR cores and HX LSZH sheath



DIN VDE 0250-812

U0/U 0.6/1 kV

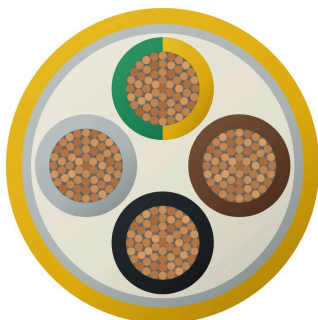
3GI3 EPR · HX LSZH Oil

Application

Extra-heavy-duty 0.6/1 kV flexible rubber cable built to DIN VDE 0250-812 with Class 5 tinned copper conductors, 3GI3 EPR core insulation, halogen-free inner bedding and an oil-resistant, flame-retardant halogen-free HX (HM5) elastomer outer sheath.

Typical uses: Underground mining & metro tunnelling, Power stations & switchgear halls, Airports, rail depots & public tunnels, Heavy manufacturing & steel plant, Shipbuilding & offshore modules

Construction



Cross-section, not to scale

- 1 Tinned copper conductor
- 2 3GI3 EPR core insulation
- 3 Halogen-free inner sheath
- 4 Halogen-free HX outer sheath

DIN VDE 0295 Class 5

DIN VDE 0207-20 3GI3

Technical data

Typical values

Rated voltage U ₀ /U	600/1000 V (0.6/1 kV) AC	Max. operating voltage AC / DC	700/1200 V AC · 900/1800 V DC
AC test voltage	3000 V AC (50 Hz, 5 min)	Conductor stranding	IEC 60228 / DIN VDE 0295 Class 5 tinned copper
Short-circuit-proof rating	Inherently short-circuit & earth-fault proof to 1000 V (VDE 0100-520)	Max. conductor temperature	+90 °C continuous operation
Short-circuit temperature	+250 °C max. (up to 5 s)	Temperature, flexing	–25 °C to +80 °C
Temperature, fixed	–40 °C to +80 °C	Min. bending radius, fixed	4 × overall diameter
Min. bending radius, moving	5 × OD (≤ 20 mm) · 6 × OD (> 20 mm)	Max. tensile load	15 N/mm ² of total copper cross-section
Mechanical duty class	Extra-heavy mechanical stress (dual-sheath rubber)	Halogen-free & acid gas	IEC 60754-1 / EN 60754-2 (pH ≥ 4.3, conductivity ≤ 10 µS/mm)
Low smoke emission	IEC 61034-2 / EN 61034-2 light transmittance ≥ 60 %	Flame retardance	IEC 60332-1-2 & bunched fire test IEC 60332-3-24 Cat. C
Oil & chemical resistance	EN 60811-404 mineral oil resistant ("Ö" designation)	Standards	DIN VDE 0250-812
Standard packing	Heat-treated ISPM-15 timber drums with sealed cable ends		

Sizes

22 standard constructions

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

Order designation	Cores × mm ²	AWG ≈	Outer Ø min mm	Outer Ø max mm	Copper kg/km	Weight ≈ kg/km	Min. bend R mm
NSHXÖU-O Single-core power & short-circuit-proof leads (25–240 mm ²) 5 sizes							
☐ NSHXÖU-O 1×25	1×25	4	11.8	12.8	240	345	51
☐ NSHXÖU-O 1×50	1×50	1	15.2	16.5	480	625	66
☐ NSHXÖU-O 1×95	1×95	3/0	19.7	21.4	912	1,135	86
☐ NSHXÖU-O 1×150	1×150	300 kcmil	23.9	26.0	1,440	1,740	104
☐ NSHXÖU-O 1×240	1×240	500 kcmil	29.4	32.0	2,304	2,710	128
NSHXÖU-J Multicore heavy-duty mining & industrial cables (3G1.5–4G95) 17 sizes							
☐ NSHXÖU-J 3×1.5	3G1.5	16	10.3	11.2	43	175	45
☐ NSHXÖU-J 4×1.5	4G1.5	16	11.2	12.2	58	215	49
☐ NSHXÖU-J 5×1.5	5G1.5	16	12.3	13.4	72	260	54
☐ NSHXÖU-J 3×2.5	3G2.5	14	11.8	12.8	72	240	51
☐ NSHXÖU-J 4×2.5	4G2.5	14	12.9	14.0	96	295	56
☐ NSHXÖU-J 5×2.5	5G2.5	14	14.2	15.4	120	360	62
☐ NSHXÖU-J 4×4	4G4	12	14.9	16.2	154	420	65
☐ NSHXÖU-J 5×4	5G4	12	16.4	17.8	192	515	71
☐ NSHXÖU-J 4×6	4G6	10	16.6	18.0	230	560	72
☐ NSHXÖU-J 5×6	5G6	10	18.4	20.0	288	690	80
☐ NSHXÖU-J 4×10	4G10	8	20.6	22.4	384	910	90
☐ NSHXÖU-J 4×16	4G16	6	23.7	25.8	614	1,260	103
☐ NSHXÖU-J 4×25	4G25	4	28.3	30.8	960	1,840	123
☐ NSHXÖU-J 4×35	4G35	2	31.8	34.6	1,344	2,410	138
☐ NSHXÖU-J 4×50	4G50	1	37.0	40.2	1,920	3,310	161
☐ NSHXÖU-J 4×70	4G70	2/0	41.8	45.4	2,688	4,420	182

Order designation	Cores × mm ²	AWG ≈	Outer Ø min mm	Outer Ø max mm	Copper kg/km	Weight ≈ kg/km	Min. bend R mm
☐ NSHXÖU-J 4×95	4G95	3/0	46.9	51.0	3,648	5,780	204

– Dimensions and weights are typical values per DIN VDE 0250-812. Minimum fixed bending radius shown is 4 × OD.

Electrical & current ratings

13 sizes

Cross-section mm ²	AWG ≈	Max. DC resistance 20 °C, Ω/km	1-core in air 30 °C, A	3–4 core in air 30 °C, A
1.5	16	13.7	23	18
2.5	14	8.21	30	25
4	12	5.09	41	34
6	10	3.39	53	44
10	8	1.95	74	61
16	6	1.24	99	82
25	4	0.795	131	108
35	2	0.565	162	135
50	1	0.393	202	168
70	2/0	0.277	250	207
95	3/0	0.21	301	250
150	300 kcmil	0.132	404	335
240	500 kcmil	0.082	540	453

– Current ratings at 30 °C ambient in free air per DIN VDE 0298-4 / EN 50565-1. Apply derating factors for elevated ambient temperature or reeling layer grouping.

Standards and approvals

✓ DIN VDE 0250-812

✓ CE · RoHS 2 (2011/65/EU) · REACH

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/nshxoeu-flexible-mining-and-industrial-rubber-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.