1600500	DATA SHEET	LAPP
valid from: 01.01.2019	NSSHÖU	

Application

NSSHÖU is a rubber cable for use at very high mechanical stress, for mining and surface mining and as well as industry.
Suitable for connection of moving equipment and machinery under extreme environmental conditions. For outdoor use as well as in dry and damp interiors. Also suitable for fixed installations e.g. on plaster. No direct burial except of lead-through through fire separations such as sand cups.

Design

Design	acc. to DIN VDE 0250-812 (VDE 0250-812)
Conductor	fine-wire strand made of tinned-copper acc. to IEC 60228 (VDE 0295), Class 5
Insulation	rubber compound 3GI3 acc. DIN VDE 0207-20 (VDE 0207-20)
Core identification code	up to 5 cores: colour-coded acc. to VDE 0293-308 (VDE 0293-308) with or without GN-YE ground conductor starting at 6 cores: black cores with white numbers acc. to EN 50334 (VDE 0293-334) Arrangement of conductors: NSSHÖU-J with PE conductor, NSSHÖU-O without PE conductor
Inner sheath	rubber compound GM1b or 5GM5 acc. DIN VDE 0207-21 (VDE 0207-21)
Outer sheath	rubber compound 5GM5 acc. DIN VDE 0207-21 (VDE 0207-21)

Electrical properties at 20°C

Rated voltage	U_0/U: 600/1000 V
Test voltage	A / A: 3000 V AC

Mechanical and thermal properties

Minimum bending radius	at free movement acc. DIN VDE 0298-3 (VDE 0298-3) D ≤ 8 mm²: 3 x outer diameter 8 mm² < D ≤ 12 mm²: 4 x outer diameter 12 mm² < D: 5 x outer diameter
Temperature range	at the conductor max. operating temperature: +90 °C at the surface fixed installation: -40 °C to +80 °C During installation: -25 °C to +80 °C
Flammability	acc. IEC 60332-1-2
Oil resistance	acc. EN 60811-404 (VDE 0473-811-404)
Tests	abrasion resistance: acc. DIN VDE 0472-605 (VDE 0472-605), Method A max. 300 mm³ Tear propagation resistance: acc. DIN VDE 0472-613 (VDE 0472-613) min. 30 N / mm The cable is characterized with the ⊲VDE⊳-sign or VDE-identification thread.
General requirements	These cables are conform to the EU-Directive 2014/35/EU (Low Voltage Directive)