TECHNICAL DATA SHEET
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NSHTÖU 3 × 70 + 3 × 35/3 mm² · 0.6/1 kV

Heavy-duty rubber reeling cable · supplied 90 m in one continuous length · for VAHLE cable reel

3×70 + 3×35/3	0.6/1 kV	≈ 42.2 mm	90 m
MM² · POWER + EARTH CORES	RATED VOLTAGE U_0/U	OUTER DIAMETER	ONE CONTINUOUS LENGTH

1 Product Overview

NSHTÖU is a flexible, heavy-duty rubber-insulated and rubber-sheathed power cable designed for repeated winding and unwinding on cable reels and drums. The cable carries three 70 mm² power cores and three earth cores of 35/3 mm² (35 mm² total protective-earth cross-section divided into three cores, laid in the outer interstices), providing a symmetrical, mechanically stable construction under reeling stress.

This offer covers **one length of 90 m**, manufactured without joints and with an outside diameter of approximately **42.2 mm**, dimensioned for installation on the **VAHLE cable reel** supplied/specified by the customer.

Typical applications

- Power supply of mobile machinery through motor-driven or spring-driven cable reels
- Cable-reel systems on cranes, port equipment, mining and industrial handling plant
- Indoor and outdoor use with high tensile, torsional and abrasion stress

2 Standards & Conformity

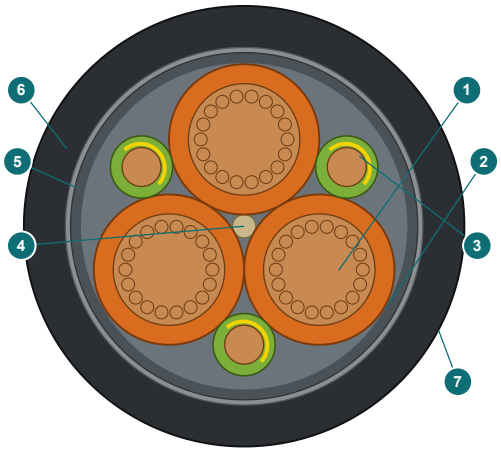
Design standard	DIN VDE 0250-814 (NSHTÖU reeling-cable family); conductors to IEC 60228 / DIN VDE 0295 Class 5
CE – Low Voltage Directive	LVD 2014/35/EU, EN 50525-1:2011+A1:2022 – attestation by UDEM International Certification (Ankara), No. M.2025.206.C116598, valid until 01.04.2030; annex includes NSHTOEU
Manufacturing & testing	Routine and sample tests performed in the manufacturer’s in-house laboratory; factory test report supplied with the shipment on request

3 Marking & Packing

- Sheath marking: FEICHUN · NSHTÖU 3×70+3×35/3 mm² · 0.6/1 kV · year · metre marks
- Cable wound on a robust export reel / wooden drum, both ends sealed against moisture; export packing

Notice. VAHLE is a trademark of its respective owner and is referenced solely to identify the compatible cable reel; FeiChun Cables is not affiliated with or endorsed by the owner. NSHTÖU is a standardised cable designation (DIN VDE 0250). FC® is a registered mark of Anhui FeiChun Special Cable Co., Ltd. Data are nominal and subject to manufacturing tolerances.

4 Construction & Cross-Section



Schematic cross-section – not to scale

No.	Element
1	**Power conductor** – 70 mm², fine-wire bare copper, Class 5 (×3)
2	**Core insulation** – EPR rubber compound (×3)
3	**Earth core** – 35/3 mm², fine-wire copper, insulated, green-yellow (×3, in outer interstices)
4	**Central filler** – rubber / textile element
5	**Inner sheath** – rubber compound
6	**Reinforcement** – textile braid
7	**Outer sheath** – heavy-duty CR-type rubber, oil-resistant, flame-retardant, black

5 Technical Data

Designation	NSHTÖU 3 × 70 + 3 × 35/3 mm²
Rated voltage U_0/U	0.6/1 kV AC
Test voltage	3 kV AC
Max. DC resistance of 70 mm² conductor at 20 °C	0.268 Ω/km (IEC 60228 Class 5)
Approx. outer diameter	42.2 mm
Copper cross-section total	3 × 70 + 35 = 245 mm² (≈ 2.2 kg Cu per metre)
Max. conductor temperature (operation)	+90 °C
Min. ambient temperature, flexing	−25 °C
Min. bending radius, reeling	12 × OD ≈ 506 mm (design guidance)

6 Delivery Length & VAHLE Reel Compatibility

Delivery length	**90 m**, one continuous length (no joints)
Cable outside diameter	≈ 42.2 mm
Reel	VAHLE cable reel as per customer's attached drawing
Drum core diameter / flange diameter / winding width	*To be confirmed against the reel drawing*
Minimum drum core diameter for this cable	≥ 2 × minimum bending radius ≈ 1,010 mm

Cable length, outside diameter and bending radius are matched to the reel; final winding capacity is verified against the reel's core, flange and width dimensions before shipment.

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Prepared by	Technical approval	Customer acceptance / date
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