TECHNICAL DATA SHEET | 0.6/1 KV | EXTRA HEAVY DUTY | REELING & FESTOON

FC-NSHTÖU 3×(2×1.5) mm² Extra Heavy Duty Rubber Control Cable

EPR-insulated, polychloroprene double-sheathed, pair-stranded flexible control cable to DIN VDE 0250-814, for reclaimer, stacker and crane drum-reeling and festoon systems.

Doc No.: FC-TDS-NSH-2026-BA35 **Revision:** A **Date:** 23 October 2026

Prepared for: OTC Industrial Solutions Limited, Hong Kong

1 Enquiry Reference and Offered Product

0.6/1 kV
RATED VOLTAGE U_0/U

3×(2×1.5)
PAIRS × CORES × MM²

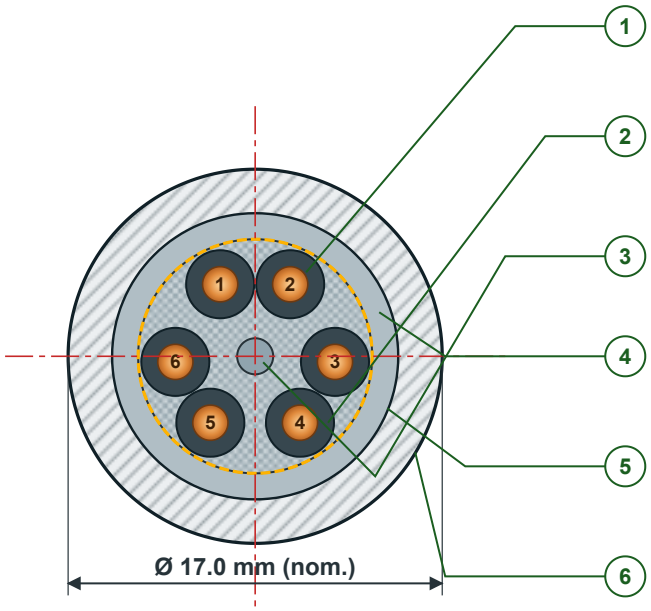
Ø 17.0 mm
NOMINAL OVERALL DIAMETER

−20 / +90 °C
OPERATING RANGE (FLEXING)

Item	Detail
Enquirer	OTC Industrial Solutions Limited, Suite C, Level 7, World Trust Tower, 50 Stanley Street, Central, Hong Kong (Attn: Obaid Mirza, Senior Procurement Executive)
Enquired type	NSHTÖU-J control cable, 3×(2×1.5) mm², extra heavy duty, 0.6/1 kV, polychloroprene inner and outer sheath (reference: Conductix-Wampfler NSHTÖU-J)
Application	Drum reeling / festoon cable for crane and stacker-reclaimer winding systems (SS reclaimer)
Enquired quantity	350 m
FeiChun designation	**FC-NSHTÖU 3×(2×1.5) mm² 0.6/1 kV**
FeiChun part number offered	**FC-NSHTOU-3P15-06**
Manufacturer	Anhui FeiChun Special Cable Co., Ltd., Hefei, Anhui Province, P.R. China
Country of origin	People's Republic of China
Production lead time	2–3 weeks after order confirmation and receipt of down payment
Warranty	Minimum 3 years on manufacturing defects

2 Cross-Section Drawing

FIG. 1



FEICHUN CABLES - CROSS-SECTION	
FC-NSHTOU 3x(2x1.5) 0.6/1 kV	
Doc no.: FC-TDS-NSH-2026-BA35A	
Scale: 6:1 (approx.)	Projection: transverse

Pos.	Element	Material / description
1	Conductor	Class 5 tinned copper, fine-wire stranded (IEC 60228 / VDE 0295)
2	Core insulation	EPR (VDE 0250-814 type 3GI3), black with white numerals 1-6
3	Pair twist / filler	Cores twisted in pairs; synthetic centre filler
4	Binder tape	Polyester tape over the laid-up assembly
5	Inner sheath	Polychloroprene (PCP) rubber, black, VDE 0250-814 type 5GM5
6	Outer sheath	Polychloroprene (PCP) rubber, black, VDE 0250-814 type 5GM5, hatched = section cut

Pair	Core numbers
P1	1 – 2
P2	3 – 4
P3	5 – 6

3 Construction

Element	Specification
Conductor	Class 5 flexible, tinned copper, 1.5 mm² per core, to VDE 0295 / IEC 60228
Core insulation	EPR (ethylene propylene rubber), VDE 0250-814 type 3GI3; nominal wall approx. 0.8 mm
Core identification	Black cores, white numerals 1 to 6
Core assembly	Cores twisted in 3 pairs; pairs laid up with synthetic filler; no earth core (configuration as enquired)
Binder	Polyester tape over assembly
Inner sheath	Polychloroprene rubber (PCP), VDE 0250-814 type 5GM5, black; nominal wall approx. 1.3 mm
Outer sheath	Polychloroprene rubber (PCP), VDE 0250-814 type 5GM5, black; nominal wall approx. 2.0 mm; heavy-duty, oil-, abrasion- and weather-resistant
Sheath marking	FEICHUN CABLES NSHTÖU 3x(2x1.5) 0.6/1kV, with sequential metre marking

4 Technical Data

4.1 Electrical

Parameter	Value
Rated voltage U_0/U	0.6/1 kV AC
Test voltage (core / routine)	3 kV AC, 5 min (3–4 kV range per enquiry)
Max. DC conductor resistance at 20 °C	13.7 Ω/km (tinned, class 5, 1.5 mm²)
Min. insulation resistance at 20 °C	20 MΩ·km
Current rating, 3 loaded cores (VDE 0298-4, 30 °C, free air)	approx. 16 A
Derating, 6 loaded cores	× 0.70 approx.; further derating applies to cable wound on a drum

4.2 Mechanical and Thermal

Parameter	Value
Nominal overall diameter	17.0 mm (tolerance ± 1.0 mm)
Approx. copper weight	80 kg/km
Approx. cable weight	340 kg/km
Min. bending radius, fixed installation	4 × overall diameter (approx. 70 mm)
Min. bending radius, flexing / festoon	7.5 × overall diameter (approx. 130 mm)
Min. bending radius, drum reeling	10 × overall diameter (approx. 170 mm)
Max. tensile load	15 N/mm² of copper cross-section (approx. 135 N)
Max. travelling / reeling speed	up to 120 m/min, guided drum or festoon
Operating temperature, flexing	−20 °C to +90 °C
Max. conductor temperature	90 °C
Flame behaviour	Flame-retardant, self-extinguishing (IEC 60332-1-2)

5 Applications

- ✓ Control and signalling circuits on bucket-wheel, stacker and ship-unloader reclaimers (SS reclaimer duty)
- ✓ Cable reel (drum-reeling) systems on cranes, gantries and winding gear
- ✓ Festoon systems on overhead cranes and travelling equipment
- ✓ Outdoor heavy-duty installation in ports, bulk-handling terminals, mines and steelworks

6 Standards

Reference	Scope
DIN VDE 0250-814 / HD 22.14	Rubber-insulated cables: PCP-sheathed, extra heavy-duty flexible cables
VDE 0295 / IEC 60228	Conductors of insulated cables, class 5
VDE 0293-308	Core identification of flexible cables
VDE 0298-4	Current-carrying capacity
IEC 60332-1-2	Vertical flame propagation, single cable

7 Indicative Packing and Logistics (350 m)

Parameter	Value
Quantity / delivery length	1 × 350 m continuous length (other lengths on request)
Packing	Export wooden drum, cable ends sealed, drum wrapped with weatherproof film
Approx. net weight	119 kg
Approx. gross weight	160 kg
Approx. drum dimensions	Ø 900 × 900 × 620 mm (≈ 0.50 m³)

Contact FeiChun Cables

Anhui FeiChun Special Cable Co., Ltd. | International Business Department

Technical enquiries: Tech@feichuncables.com

Mining & heavy industry: mining@feichuncables.com

Zihao Yang, Global Sales Manager: zihao.yang@feichuncables.com

WhatsApp: +86 138 5512 3218

Web: www.feichuncables.com

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