Anhui Feichun Special Cable Co., Ltd.

安徽飞纯特种电缆有限公司

TECHNICAL SPECIFICATION

Type (N)SHTOEU-J Reeling Cable

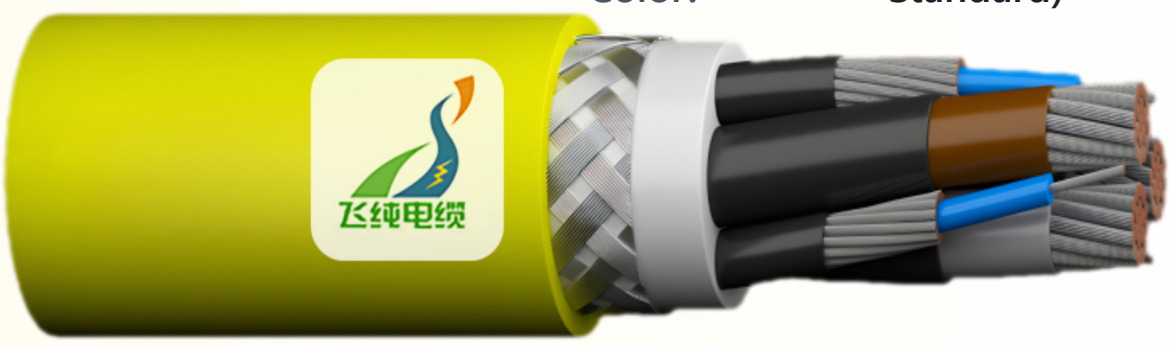
卷盘控制电缆 — Low Voltage Reeling Cable based on DIN VDE 0250-814

FEATURED SPECIFICATION

(N)SHTOEU-J 19×2.5+5×1

CE CERTIFIED

Conductor Structure:	19 cores × 2.5 mm^2 + 5 cores × 1 mm^2
Special Feature:	Individual screen with anti-torsion braid
Voltage Rating:	0.6/1 (1.2) kV
Outer Sheath Color:	Yellow (RAL Standard)



Standards & Compliance

VDE 0250 Part 814 | CE Certified | DIN VDE 0298-4 | DIN EN 60811-404

Electrical Parameters

Rated Voltage	0.6/1 kV (600/1000V)
Max. Operating Voltage AC	0.7/1.2 kV
Max. Operating Voltage DC	0.9/1.8 kV
AC Test Voltage	3.5 kV (5 minutes)
Current Carrying	Acc. to DIN VDE 0298-4

Thermal Parameters

Max. Conductor Temperature	90°C
Max. Short Circuit Temperature	250°C
Fixed Installation Range	−50°C to +80°C

Capacity	

Flexible Operation Range	−35°C to +80°C

Cable Construction

Conductor

Electrolytic bare copper, very finely stranded (Class FS) for maximum flexibility

Insulation

HEPR (High-Performance Ethylene Propylene Rubber) compound providing excellent stability, superior insulation resistance, and optimal gliding characteristics

Core Identification

Black colored insulation with light printed numbers; earth conductor green-yellow

Individual Screen

Braid screen made of tinned copper wires. Transfer impedance optimized at 30 MHz. Surface coverage: minimum 60% for shielded cores; minimum 80% for twisted pairs

Support Element

Central aramide support element to increase loading capability

Sheath System — PROTOFIRM Special (Sandwich Structure)

Inner Sheath: High-grade special compound based on PCP (chloroprene rubber), color: yellow
Anti-Torsion Braid: Reinforced braid made of polyester threads in vulcanized bond between sheaths
Outer Sheath: Abrasion and tear resistant special rubber compound based on PCP, color: yellow

Mechanical Parameters

Torsional Stress	± 50°/m
Min. Bending Radius	Acc. to DIN VDE 0298 Part 3
Min. S-Type Change Distance	20 × D (outer diameter)
Travel Speed (Vertical)	Up to 240 m/min

Environmental Resistance

Oil Resistance	Acc. to DIN EN 60811-404
Weather Resistance	Unrestricted indoor/outdoor use
UV Resistance	Yes
Ozone Resistance	Yes

Tensile Load	Increased through aramide support element

Flame Retardance	Single wire flame retardant
Water Resistance	Verified in long-term tests

Applications

- ✓ Heavy-duty rubber reeling cable for power supply and control
- ✓ High mechanical stress environments with simultaneous tensile and torsional loads
- ✓ Motor-driven mono spiral or cylindrical reels
- ✓ Spring-operated reels
- ✓ Indoor and outdoor installations
- ✓ Vertical reeling applications

Suitable Equipment

Stackers and reclaimers, container handling equipment in ports, stockyard handling systems, mobile industrial equipment, crane systems, and heavy material handling machinery.

Data Transmission Options

Available with special integrated elements for data transmission: **ASI-Bus**, **Profibus**, **CAN-Bus**, **Industrial Ethernet**. Alternatively available with fiber optics for transmitting all bus protocols.

Product Range — Technical Specifications

(N)SHTOEU-J Control Cables

Cores × Cross Section	Part Number	MLFB Number	Conductor Ø max. (mm)	Outer Ø min. (mm)	Outer Ø max. (mm)	Bend Radius min. (mm)	Weight (kg/km)	Tensile Force max. (N)	Conductor Res. 20°C (Ω/km)	Current Capacity (A)	Short Circuit (kA)
49×1	20004108	5DH3291	1.3	26.6	29.6	148	1250	3200	19.5	18	0.14
12×2.5	20004109	5DH3292	2	22	25	125	870	2700	7.98	30	0.36
24×2.5	20004112	5DH3295	2	26.2	29.2	146	1300	3600	7.98	30	0.36
30×2.5	20004113	5DH3296	2	29.4	32.4	162	1630	4100	7.98	30	0.36
44×2.5	20004115	5DH3298	2	34.1	37.1	186	2200	5100	7.98	30	0.36
56×2.5	20004107	5DH3290	2	40.1	43.1	216	2960	6000	7.98	30	0.36

(N)SHTOEU Composite Control Cables

Cores × Cross Section	Part Number	MLFB Number	Conductor Ø max. (mm)	Outer Ø min. (mm)	Outer Ø max. (mm)	Bend Radius min. (mm)	Weight (kg/km)	Tensile Force max. (N)	Conductor Res. 20°C (Ω/km)	Current Capacity (A)	Short Circuit (kA)
12×2.5+(4×0.5)C	20008558	5DH3262	2	19	22	110	770	2700	7.98	30	0.36
45×2.5+(4×0.5)C	20163404	5DH3286	2	42.9	45.9	230	2830	5175	7.98	30	0.36

(N)SHTOEU-J Control Cables with Fiber Optics

Cores × Cross Section	Part Number	MLFB Number	Conductor Ø max. (mm)	Outer Ø min. (mm)	Outer Ø max. (mm)	Bend Radius min. (mm)	Weight (kg/km)	Tensile Force max. (N)	Conductor Res. 20°C (Ω/km)	Current Capacity (A)	Short Circuit (kA)
22×2.5+4×(3G50)	20004111	5DH3294	2	28.2	31.2	156	1390	3450	7.98	30	0.36
22×2.5+2×(3G62.5)	20008607	5DH3261	2	26.2	29.2	146	1260	3450	7.98	30	0.36
24×2.5+6×(2G62.5)	20079358	5DH3981	2	29.4	32.4	162	1510	3600	7.98	30	0.36
28×2.5+2×(3G62.5)	20156011	5DH3308	2	29.4	32.4	162	1590	3900	7.98	30	0.36
28×2.5+2×(3G50)	20149375	5DH3305	2	29.4	32.4	162	1590	3900	7.98	30	0.36
36×2.5+8×(1G62.5)	20091976	5DH3978	2	34.1	37.1	186	2050	4500	7.98	30	0.36
38×2.5+6×(2G62.5)	20040061	5DH3259	2	34.1	37.1	186	2090	4650	7.98	30	0.36
41×2.5+3×(2G62.5)	20116888	5DH3301	2	34.1	37.1	186	2150	4875	7.98	30	0.36
41×2.5+3×(2G50)	20142021	5DH3304	2	34.1	37.1	186	2160	4875	7.98	30	0.36
42×2.5+2×(3G62.5)	20081032	5DH3980	2	34.1	37.1	186	2170	4950	7.98	30	0.36
44×2.5+3×(2G62.5)	20155500	5DH3314	2	35.5	38.5	193	2300	5100	7.98	30	0.36
44×2.5+4×(3G62.5)	20160144	5DH3315	2	35.5	38.5	193	2330	5100	7.98	30	0.36
44×2.5+3×(3G50)	20025456	5DH3300	2	35.5	38.5	193	2310	5100	7.98	30	0.36
44×2.5+3×(3G62.5)	20143212	5DH3313	2	35.5	38.5	193	2310	5100	7.98	30	0.36
50×2.5+6×(1G50)	20004095	5DH3269	2	40.1	43.1	216	2840	5550	7.98	30	0.36
52×2.5+4×(3G62.5)	20080536	5DH3979	2	40.1	43.1	216	2890	5700	7.98	30	0.36
56×2.5+3×(3G62.5)	20004096	5DH3270	2	41.3	44.3	222	3030	6000	7.98	30	0.36
56×2.5+4×(3G62.5)	20085758	5DH3258	2	41.3	44.3	222	3080	6000	7.98	30	0.36

FEICHUN SPECIAL CABLES

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