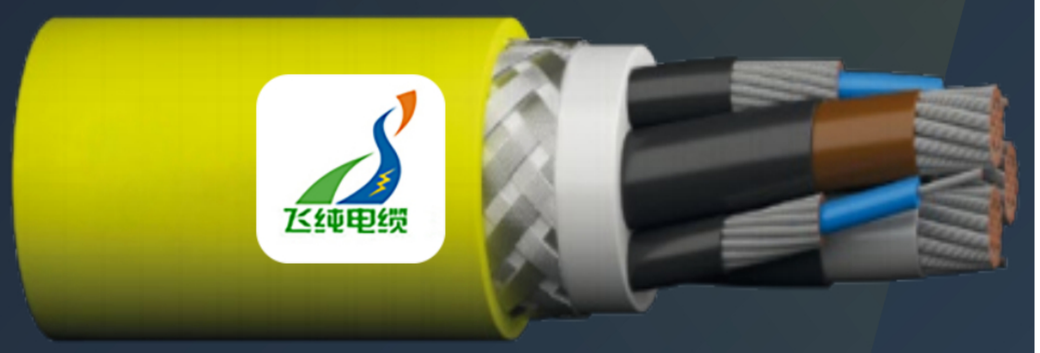
ANHUI FEICHUN SPECIAL CABLE CO., LTD.

安徽飞纯特种电缆有限公司

NSHTOEU-J Cable

Flexible Low Voltage Reeling Cable

3X150+2X70/2+1X10ST | 0.6/1kV



APPLICATION

Flexible low voltage reeling cable designed for application under high and very high mechanical stresses. Ideal for demanding industrial environments requiring exceptional durability and performance.

STANDARDS & CERTIFICATIONS

STANDARD	VDE REGISTRATION	ADDITIONAL APPROVAL
DIN VDE 0250-814	VDE Reg. Nr. 7519	GOST-R

DESIGN FEATURES

CONDUCTOR	Electrolytic copper tinned, very finely stranded class FS
INSULATION	PROTOLON MS - Special compound based on high-quality EPR (min. 3GI3); improved mechanical and electrical characteristics
CORE IDENTIFICATION	Light colored insulation with numbers printed in black for power and control cables, earth conductor green-yellow colored
INDIVIDUAL SCREEN	Braid screen made of tinned copper wires. Transfer impedance optimized at 30 MHz. Surface covered: at least 60% for shielded cores; at least 80% for twisted and shielded pairs
CORE ARRANGEMENT	Laid-up in a maximum of 3 layers
SHEATH SYSTEM	PROTOFIRM Special - Inner sheath: High grade special compound based on PCP, color: yellow; Anti-torsion braid: Reinforced braid made of polyester threads, in a vulcanized bond between the sheaths, resulting in a high strength of the sheath system; Outer sheath: Abrasion and tear resistant special rubber compound based on PCP, color: yellow
MARKING	CORDAFLEX (SMK) (N)SHTOEU-J/-O (number of cores) x (cross section)+VDE Reg.-Nr.

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 Min.)	**Data Transmission** ASI-Bus, Profibus, CAN-Bus, Industrial Ethernet, Fibre optics	**Current Carrying Capacity** Acc. to DIN VDE 0298-4

CHEMICAL & ENVIRONMENTAL PARAMETERS

Oil Resistance Acc. to DIN EN 60811-404	**Weather Resistance** Unrestricted outdoor/indoor use, resistant to ozone, UV and moisture	**Water Resistance** Verified in long-term tests

THERMAL PARAMETERS

Max Conductor Temperature 90°C	**Max Short Circuit Temperature** 250°C	**Ambient Temp (Fixed Installation)** -50°C to +80°C
Ambient Temp (Flexible Operation) -35°C to +80°C		

MECHANICAL PARAMETERS

Max Tensile Load on Conductor 30 N/mm²	**Torsional Stress** ± 50°/m	**Min Bending Radius** Acc. to DIN VDE 0298 part 3
Min Distance S-Type Changes 20 X D	**Travel Speed - Gantry** No restriction (consult for >240m/min)	**Travel Speed - Trolley** Up to 240 m/min
Additional Tests Reversed bending test, roller bending test, torsional stress test		



TECHNICAL SPECIFICATIONS - POWER CABLES (3-CORE DESIGN)

CORES X CROSS SECTION	PART NUMBER	MLFB	CONDUCTOR Ø MAX (MM)	OUTER Ø MIN (MM)	OUTER Ø MAX (MM)	BENDING RADIUS MIN (MM)	WEIGHT (KG/KM)	MAX TENSILE FORCE (N)	RESISTANCE AT 20°C (Ω/KM)	CURRENT CAPACITY (A)	SHORT CIRCU CURRE (KA)
3x35+3x16/3	20004037	5DH3121	8.4	28.7	31.7	159	1990	3150	0.57	162	5.01
3x50+3x25/3	20004038	5DH3122	10.3	34.4	37.4	187	2810	4500	0.39	202	7.15
3x70+3x35/3	20004039	5DH3123	12	39.7	42.7	214	3860	6300	0.28	250	10.01
3x95+3x50/3	20004040	5DH3124	14	44.3	47.3	237	4950	8550	0.21	301	13.59
3x120+3x70/3	20004041	5DH3125	15.8	51	55	275	6440	10800	0.16	352	17.16
3x150+3x70/3	**20004042**	**5DH3126**	**17.5**	**53.9**	**57.9**	**290**	**7500**	**13500**	**0.13**	**404**	**21.45**
3x185+3x95/3	20004043	5DH3127	19.4	58.9	62.9	315	8990	16650	0.11	461	26.46
3x240+3x120/3	20004044	5DH3128	22.5	67.4	71.4	357	11940	21600	0.08	540	34.32
3x300+3x150/3	20051390	5DH3119	25.2	75.6	79.6	398	14740	27000	0.07	620	42.9

Note: The highlighted specification 3X150+2X70/2+1X10ST represents a special configuration. Reference row 3x150+3x70/3 shown above.
Nominal current carrying capacity for rubber cables laid on a surface, at 30°C ambient temperature (see also VDE 0298-4, Table 15).

TECHNICAL SPECIFICATIONS - 4-CORE DESIGN

CORES X CROSS SECTION	PART NUMBER	MLFB	CONDUCTOR Ø MAX (MM)	OUTER Ø MIN (MM)	OUTER Ø MAX (MM)	BENDING RADIUS MIN (MM)	WEIGHT (KG/KM)	MAX TENSILE FORCE (N)	RESISTANCE AT 20°C (Ω/KM)	CURRENT CAPACITY (A)	SHORT CIRCUIT CURRENT (KA)
4x4	20004047	5DH3132	3	16	18	90	450	480	5.09	41	0.57
4x6	20004048	5DH3133	3.6	17.4	19.4	97	600	720	3.39	53	0.86
4x10	20004049	5DH3134	4.6	21.6	23.6	118	900	1200	1.95	74	1.43
4x16	20004050	5DH3135	5.6	23.7	26.7	134	1240	1920	1.24	99	2.29
4x25	20004051	5DH3136	7.3	28.5	31.5	158	1850	3000	0.8	131	3.58

TECHNICAL SPECIFICATIONS - 5-CORE DESIGN

CORES X CROSS SECTION	PART NUMBER	MLFB	CONDUCTOR Ø MAX (MM)	OUTER Ø MIN (MM)	OUTER Ø MAX (MM)	BENDING RADIUS MIN (MM)	WEIGHT (KG/KM)	MAX TENSILE FORCE (N)	RESISTANCE AT 20°C (Ω/KM)	CURRENT CAPACITY (A)	SHORT CIRCUIT CURRENT (KA)
5x4	20014479	5DH3151	3	17.4	19.4	97	550	600	5.09	41	0.57
5x6	20004056	5DH3152	3.6	19	21	105	690	900	3.39	53	0.86
5x10	20004057	5DH3153	4.6	23.4	25.4	127	1070	1500	1.95	74	1.43
5x16	20004058	5DH3154	5.6	26.1	29.1	146	1500	2400	1.24	99	2.29
5x25	20004059	5DH3155	7.3	33.7	36.7	184	2340	3750	0.8	131	3.58

FEICHUN SPECIAL CABLES

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