CORDAFLEX(SMK) (N)SHTOEU-J

Low Voltage Reeling Cable

Flexible low voltage reeling cable engineered for application under high and very high mechanical stresses. Designed for demanding industrial environments including port cranes, mining equipment, and heavy-duty machinery operations.



RATED VOLTAGE	MAX TEMPERATURE	STANDARD
0.6/1 kV	90°C	DIN VDE 0250-814

Design Features

Conductor
Electrolytic copper tinned, very finely stranded class FS

Insulation
Special compound based on high-quality EPR (min. 3G13)

Core Identification
Light colored insulation with numbers printed in black

Individual Screen
Braid screen made of tinned copper wires, impedance optimized at 30 MHz

Core Arrangement
Laid-up in a maximum of 3 layers

Sheath System
High-grade special compound based on PCP with anti-torsion braid

Technical Parameters

Electrical

RATED VOLTAGE
0.6/1 kV

MAX. OPERATING AC
0.7/1.2 kV

MAX. OPERATING DC
0.9/1.8 kV

TEST VOLTAGE
3.5 kV (5 Min.)

Thermal

MAX. CONDUCTOR TEMP.
90°C

SHORT CIRCUIT TEMP.
250°C

FIXED INSTALLATION
-50°C to +80°C

FLEXIBLE OPERATION
-35°C to +80°C

Mechanical

MAX. TENSILE LOAD
30 N/mm²

TORSIONAL STRESS
± 50 °/m

TRAVEL SPEED
up to 240 m/min

BENDING RADIUS
DIN VDE 0298 part 3

Complete Technical Specifications (60 Configurations)

3-Core Power Cables (Earth Conductor Split in Three)

Config	Cond. Ø	Ø Min	Ø Max	Bend R	Weight	Tensile	Ω/km	Current	SCC
3x35+3x16/3	8.4	28.7	31.7	159	1990	3150	0.57	162	5.01
3x50+3x25/3	10.3	34.4	37.4	187	2810	4500	0.39	202	7.15
3x70+3x35/3	12	39.7	42.7	214	3860	6300	0.28	250	10.01
3x95+3x50/3	14	44.3	47.3	237	4950	8550	0.21	301	13.59
3x120+3x70/3	15.8	51	55	275	6440	10800	0.16	352	17.16
3x150+3x70/3	17.5	53.9	57.9	290	7500	13500	0.13	404	21.45
3x185+3x95/3	19.4	58.9	62.9	315	8990	16650	0.11	461	26.46
3x240+3x120/3	22.5	67.4	71.4	357	11940	21600	0.08	540	34.32
3x300+3x150/3	25.2	75.6	79.6	398	14740	27000	0.07	620	42.9

4-Core Power Cables

Config	Cond. Ø	Ø Min	Ø Max	Bend R	Weight	Tensile	Ω/km	Current	SCC
4x4	3	16	18	90	450	480	5.09	41	0.57
4x6	3.6	17.4	19.4	97	600	720	3.39	53	0.86
4x10	4.6	21.6	23.6	118	900	1200	1.95	74	1.43
4x16	5.6	23.7	26.7	134	1240	1920	1.24	99	2.29
4x25	7.3	28.5	31.5	158	1850	3000	0.8	131	3.58

5-Core Power Cables

Config	Cond. Ø	Ø Min	Ø Max	Bend R	Weight	Tensile	Ω/km	Current	SCC
5x4	3	17.4	19.4	97	550	600	5.09	41	0.57
5x6	3.6	19	21	105	690	900	3.39	53	0.86
5x10	4.6	23.4	25.4	127	1070	1500	1.95	74	1.43
5x16	5.6	26.1	29.1	146	1500	2400	1.24	99	2.29
5x25	7.3	33.7	36.7	184	2340	3750	0.8	131	3.58

Control Cables (1.5mm²)

Config	Cond. Ø	Ø Min	Ø Max	Bend R	Weight	Tensile	Ω/km	Current	SCC
3x1.5	1.6	11.7	13.3	67	210	130	13.7	23	0.21
4x1.5	1.6	12.2	13.8	69	240	180	13.7	23	0.21
5x1.5	1.6	13	14.6	73	280	220	13.7	23	0.21
7x1.5	1.6	15.2	17.2	86	390	310	13.7	23	0.21
12x1.5	1.6	21.4	23.4	117	720	540	13.7	23	0.21
18x1.5	1.6	21.3	23.3	117	770	810	13.7	23	0.21
24x1.5	1.6	23.8	26.8	134	1020	1080	13.7	23	0.21
30x1.5	1.6	26.5	29.5	148	1240	1350	13.7	23	0.21
36x1.5	1.6	26.5	29.5	148	1290	1620	13.7	23	0.21
44x1.5	1.6	29.5	32.5	163	1530	1980	13.7	23	0.21
56x1.5	1.6	35.9	38.9	195	2040	2520	13.7	23	0.21

Control Cables (2.5mm²)

Config	Cond. Ø	Ø Min	Ø Max	Bend R	Weight	Tensile	Ω/km	Current	SCC
3x2.5	2	12.7	14.3	72	270	220	8.21	30	0.36
4x2.5	2	13.2	14.8	74	300	300	8.21	30	0.36
5x2.5	2	14.2	15.8	79	350	370	8.21	30	0.36
7x2.5	2	16.6	18.6	93	500	520	8.21	30	0.36
12x2.5	2	23.4	25.4	127	910	900	8.21	30	0.36
18x2.5	2	23.3	25.3	127	1010	1350	8.21	30	0.36
24x2.5	2	26.2	29.2	146	1340	1800	8.21	30	0.36
30x2.5	2	29.4	32.4	162	1660	2250	8.21	30	0.36
36x2.5	2	30.3	33.3	167	1750	2700	8.21	30	0.36
44x2.5	2	34.1	37.1	186	2180	3300	8.21	30	0.36
56x2.5	2	40.1	43.1	216	2870	4200	8.21	30	0.36

(N)SHTOEU-O Bus Cables

Config	Cond. Ø	Ø Min	Ø Max	Bend R	Weight	Tensile	Ω/km	Current	SCC
6x(2x0.5)C	0.9	23.1	25.1	126	885	180	40.1	**10**	0.07
3x(2x1)C	1.3	22	24	120	730	180	20	**18**	0.14
6x(2x1)C	1.3	28.9	31.9	160	1300	360	20	**18**	0.14
9x(2x1)C	1.3	39.3	42.3	212	2150	540	20	**18**	0.14
12x(2x1)C	1.3	38.9	40.9	205	2170	720	20	**18**	0.14
12x1(C)	1.3	22.9	25.9	130	880	360	20	**18**	0.14

(N)SHTOEU-J Combined Control Cables

Config	Cond. Ø	Ø Min	Ø Max	Bend R	Weight	Tensile	Ω/km	Current	SCC
12x2.5+12x1(C)	2	27.2	30.2	151	1280	900	8.21	**30**	0.36
19x2.5+5x1(C)	2	26.2	29.2	146	1310	1420	8.21	**30**	0.36
19x2.5+5x1.5(C)	2	31	34	170	1580	1420	8.21	**30**	0.36
25x2.5+5x1(C)	2	29.4	32.4	162	1640	1870	8.21	**30**	0.36

(N)SHTOEU-J Control Cables with Fiber Optics

Config	Cond. Ø	Ø Min	Ø Max	Bend R	Weight	Tensile	Ω/km	Current	SCC
24x1.5+6x(2G62.5)	1.6	26.6	29.6	148	1180	1080	13.7	**23**	0.21
24x1.5+6x(2G50)	1.6	26.6	29.6	148	1180	1080	13.7	**23**	0.21
24x1.5+12x(2xE9)	1.6	26.5	29.5	148	1200	1080	13.7	**23**	0.21
20x2.5+6x(3G62.5)	2	28.4	31.4	157	1280	1500	8.21	**30**	0.36
20x2.5+6x(3E9)	2	28.4	31.4	157	1290	1500	8.21	**30**	0.36
24x2.5+6x(2E9)	2	29.4	32.4	162	1520	1800	8.21	**30**	0.36
28x2.5+2x(3G50)	2	29.4	32.4	162	1590	2100	8.21	**30**	0.36
30x2.5+6x(3E9)	2	30.2	33.3	167	1640	2250	8.21	**30**	0.36

Chemical & Environmental Resistance

Oil Resistance

Acc. to DIN EN 60811-404; DIN VDE 0473-811-404

Weather Resistance

Unrestricted outdoor/indoor use, resistant to ozone, UV and moisture

Water Resistance

Given and verified in long-term tests

Anhui Feichun Special Cable Co., Ltd.

18+ years experience in high-performance cables for extreme environments.

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