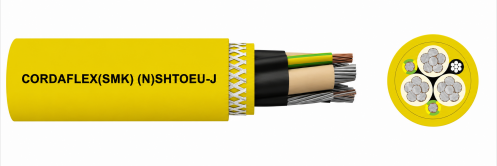
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CORDAFLEX(SMK) (N)SHTOEU

Low Voltage Reeling Cable for E-RTG's (0.6/1 kV)



APPLICATION

Flexible low voltage reeling cable for power supply, suitable for applications under high and very high mechanical stresses. The main application is reeling operation on **E-RTG's (Electrified Rubber Tyred Gantry cranes)**. Available with integrated fiber optics for high-speed, interference-free data transmission.

GLOBAL DATA

Type Designation	(N)SHTOEU-J / (N)SHTOEU-O
Standard	Based on DIN VDE 0250-814
Certifications	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; Earth conductor: Green-Yellow.
Sheath System	**Inner Sheath:** PROTOFORM Special - High grade PCP compound, yellow. **Anti-torsion Braid:** Reinforced polyester threads vulcanized between sheaths. **Outer Sheath:** PROTOFORM Special - Abrasion and tear resistant rubber compound (PCP), yellow.

ELECTRICAL PARAMETERS

Rated Voltage (Uo/U)	0.6/1 kV (600/1000V)
Max. Permissible AC Voltage	0.7/1.2 kV
Max. Permissible DC Voltage	0.9/1.8 kV
AC Test Voltage	3.5 kV (5 Minutes)
Data Transmission	Special design with fiber-optics for high data rates.

THERMAL PARAMETERS

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

MECHANICAL PARAMETERS

Max. Tensile Load	30 N/mm^2
Torsional Stress	± 50 °/m
Min. Bending Radius	Acc. to DIN VDE 0298 part 3
Min. Distance (S-type changes)	20 X D
Travel Speed	Up to 240 m/min (Gantry/Trolley)

CHEMICAL PARAMETERS

Resistance to Oil	Acc. to DIN EN 60811-404
Weather Resistance	Unrestricted use outdoors/indoors; UV, Ozone, Moisture resistant.

COMPREHENSIVE SPECIFICATIONS (18 MODELS)

Cores x Cross Section	Cond. Dia (mm)	Outer Dia (mm)	Weight (kg/ km)	Tensile (N)	Resistance (Ω/km)	Capacity (A)
(N)SHTOEU-J 3-core design, earth conductor split in three						
3x35+3x16/3	8.4	28.7 - 31.7	1990	3150	0.57	162
3x50+3x25/3	10.3	34.4 - 37.4	2810	4500	0.39	202
3x70+3x35/3	12.0	39.7 - 42.7	3860	6300	0.28	250
3x95+3x50/3	14.0	44.3 - 47.3	4950	8550	0.21	301
3x120+3x70/3	15.8	51.0 - 55.0	6440	10800	0.16	352
3x150+3x70/3	17.5	53.9 - 57.9	7500	13500	0.13	404
3x185+3x95/3	19.4	58.9 - 62.9	8990	16650	0.11	461
3x240+3x120/3	22.5	67.4 - 71.4	11940	21600	0.08	540
3x300+3x150/3	25.2	75.6 - 79.6	14740	27000	0.07	620
(N)SHTOEU-J 3-core design with FO, earth conductor split in two						
3x35+2x16/2+1x(6G62.5)	8.4	35.7 - 38.7	2390	3150	0.57	162
3x50+2x25/2+1x(6G62.5)	10.3	39.9 - 42.9	3220	4500	0.39	202
3x70+2x35/2+1x(6G62.5)	12.0	43.7 - 46.7	4200	6300	0.28	250
3x95+2x50/2+1x(6G62.5)	14.0	47.6 - 50.6	5220	8550	0.21	301
3x120+2x70/2+1x(6G62.5)	15.8	54.0 - 58.0	6700	10800	0.16	352
3x150+2x70/2+1x(6G62.5)	17.5	57.0 - 61.0	7750	13500	0.13	404
3x185+2x95/2+1x(6G62.5)	19.4	59.5 - 63.5	9200	16650	0.11	461
3x240+2x120/2+1x(6G62.5)	22.5	69.7 - 73.7	12320	21600	0.08	540
3x300+2x150/2+1x(6G62.5)	25.2	78.0 - 82.0	15000	27000	0.07	620

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Australia Website

https://www.feichuncables.com/

UAE Website

https://www.reelingcable.com/

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