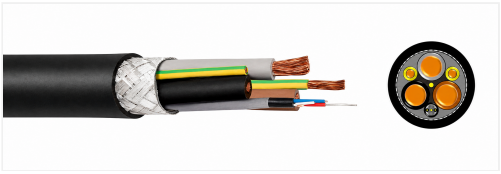
AnHui Feichun SpecialCable Co., Ltd
WhatsApp: +86 13855123218
Website: feichuncables.com | reelingcable.com

TROMMELFLEX KSM-S (N)SHTOEU

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



APPLICATION

Flexible low voltage reeling cable for power supply (also with integrated fiber optics), suitable for application under high mechanical stresses. The main application is reeling operation on **E-RTG's (Electrified Rubber Tyred Gantry cranes)**. Designed for maximum reliability in heavy-duty industrial environments.

GLOBAL DATA

Brand	TROMMELFLEX KSM-S
Type Designation	(N)SHTOEU-J / -O
Standard	Based on DIN VDE 0250-814

DESIGN FEATURES

Conductor	Plain copper, flexible class 5 acc. to DIN EN 60228 / DIN VDE 0295
Insulation	Rubber compound type 3GI3 acc. to DIN VDE 0207-20
Core Identification	Acc. to DIN VDE 0293-308
Core Arrangement	Cores laid up with short length of lay. Split earth conductor and optical element positioned in the interstices.
Sheath System	**Inner Sheath:** Rubber compound type 5GM3 acc. to DIN VDE 0207-21. **Reinforcement:** Wide-meshed polyester braid, embedded in the sheath. **Outer Sheath:** Extruded rubber compound type 5GM5 acc. to DIN VDE 0207-21. Abrasion and tear resistant, oil and flame resistant; Colour: black.

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	4 kV (5 Minutes)
Data Transmission	Fibre-optic element for trouble free data transmission.

THERMAL PARAMETERS

Max. Conductor Temperature	90 °C
Max. Short Circuit Temperature	250 °C
Ambient Temp (Fixed)	-40 °C to +80 °C
Ambient Temp (Flexible)	-40 °C to +80 °C

MECHANICAL PARAMETERS

Max. Tensile Load	20 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	Reeling operation: up to 180m/min

CHEMICAL PARAMETERS

Resistance to Fire	Acc. to IEC 60332-1 (EN 50265-2-1)
Resistance to Oil	Acc. to EN 60811-404; ASTM No. 2: 24h at 100 °C

COMPREHENSIVE SPECIFICATIONS

Cores x Cross Section	Cond. Dia (mm)	Outer Dia (mm)	Weight (kg/ km)	Tensile (N)	Resistance (Ω/km)	Capacity (A)
(N)SHTOEU-J power cables, 3-core design, earth conductor split in three						
3x50+3x25/3	9.6	34 - 37	2550	3000	0.39	202
3x95+3x50/3	12.6	43 - 46	4340	5700	0.21	301
3x70+3x35/3	11.1	40 - 43	3460	4200	0.27	250
3x120+3x70/3	14.8	51 - 56	5630	7200	0.16	352
3x150+3x70/3	16.0	52 - 56	6500	9000	0.13	404
3x185+3x95/3	17.7	56 - 61	7910	11100	0.11	461
3x240+3x120/3	20.2	64 - 70	10380	14400	0.08	540
3x300+3x150/3	22.7	70 - 76	13220	18000	0.06	620
3x400+3x240/3	27.0	82 - 88	20750	24000	0.05	715
(N)SHTOEU-J power cables, 3-core design with FO, earth conductor split in two						
3x35+2x16/2+12LWL	7.8	33.5 - 36.5	2110	2100	0.55	162
3x50+2x25/2+12G62.5	9.0	39.5 - 42.5	2910	3000	0.39	202
3x70+2x35/2+12LWL	11.1	40 - 43	3380	4200	0.27	250
3x95+2x50/2+12LWL	12.6	43 - 46	4230	5700	0.21	301
3x120+2x70/2+12G62.5	14.8	48.5 - 52.5	5650	7200	0.16	352
3x150+2x70/2+12G62.5	16.0	54 - 58	6570	9000	0.13	404
3x185+2x95/2+12G62.5	17.7	56 - 61	8010	11100	0.11	461
3x240+2x120/2+12G62.5	20.2	64 - 70	9980	14400	0.08	540
3x300+2x150/2+12LWL	22.7	70 - 76	12560	18000	0.06	620

WhatsApp

+86 13855123218

Australia Website

feichuncables.com

UAE Website

reelingcable.com

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