Reeling cable
(N)SHTOEU Trommelflex KSM-S

Application: These cables are intended for applications where frequent winding and unwinding is necessary during operation, in particular with simultaneous tensile strain and/or torsional stress and/or forced guidance of the cable. Where excessive stress, particularly high dynamic tensile force may be expected, e.g. as a result of high acceleration figures, the permissible stress limits have to be determined individually.

Construction and technical data:

Standard:	VDE 0250-814 (wih reference to)
Conductor material:	copper, bare
Conductor construction:	Class 5 = fine stranded - DIN EN IEC 60228 (VDE 0295)
Insulation:	rubber (EPR) 3GI3
Arrangement of protective conductors:	split in the outer interstices
Material inner sheath:	Gummi 5GM3
Torsion protection:	polyester braid
Torsion:	+/- 50 °/m
Sheathing material:	rubber 5GM5
Colour of outer sheath:	black
Flame-retardant:	DIN EN 60332-1-2 / VDE 0482-332-1 / IEC 60332-1-2
Oil-resistant:	DIN EN 60811-404 / VDE 0473-811-404 / IEC 60811-404
Max. temperature at conductor, °C:	90 °C
Permitted outer cable temperature, fixed, °C:	-40 - +80 °C
Permitted outer cable temperature, moved, °C:	-40 - +80 °C
Min. bending radius, fixed installation:	4 x Ø
Bending radius, moving application:	5 x Ø
Maximum tensile strength at the conductor:	20 N/mm²
Operating speed:	180 m/min.

The products and information presented here are for technical calculation only. They are subject to technical progress and in no way represent the ability of shipment. Outer diameters are approximately.

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(N)SHTOEU-J Trommelflex KSM-S

Nominal voltage Uo: 0.6 kV

Nominal voltage U: 1 kV

Maximum permitted operating voltage in three-phase systems: 1.2 kV

Test voltage: 4 kV

Core identification: colours acc. to VDE 0293 (HD308)

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ø min. [mm]	Ø max. [mm]	Fzp [N]	Cu	G [kg]
053431	3x35 + 3x16/3	0.554	162		31.1	2100	1181	1876
052266	3X50 + 3X25/3	0.386	202	34	37	3000	1680	2603
052267	3X70 + 3X35/3	0.272	250	40	43	4200	2352	3526
052268	3X95 + 3X50/3	0.206	301	43	46	5700	3216	4392
052165	3X120 + 3X70/3	0.161	352	48	52	7200	4128	5691
052166	3X150 + 3X70/3	0.129	404	52	56	9000	4992	6946
052269	3X185 + 3X95/3	0.106	461	56	61	11100	6240	8897
052270	3X240 + 3X120/3	0.0801	540	64	70	14400	8064	10705

Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Ø min.	outer diameter min.
Ø max.	outer diameter max.
Fzp	Tensile strength (permanent)
Cu	Copper weight (GER)
G	net weight per 1000

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