

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 (with reference to)
Conductor material:	copper, bare
Conductor construction:	Class 5 = flexible
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 (CR) 5GM5
Colour of outer sheath:	black
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Oil-resistant:	EN 60811-2-1
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
Bending radius, fixed installation:	4 x Ø
Bending radius, moving application:	5 x Ø
Maximum tensile strength at the conductor:	20 N/mm ²
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.

(N)SHTOEU-J Trommelflex KSM-S

Nominal voltage U_o: 0.6 kV

Nominal voltage U: 1 kV

Maximum permitted operating voltage in 1.2 kV

three-phase systems:

Test voltage: 4 kV

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

part no.	part name	RI [Ohm/km]	I _{bl} [A]	Ø min. [mm]	Ø max. [mm]	Ø [mm]	F _{zp} [N]	Cu	G [kg]
053431	3x35 + 3x16/3	0.554	162		31.1	31.1	2100	1181	1876
052266	3X50 + 3X25/3	0.386	202	34	37	37	3000	1680	2550
052267	3X70 + 3X35/3	0.272	250	40	43	43	4200	2352	3460
052268	3X95 + 3X50/3	0.206	301	43	46	46	5700	3216	4340
052165	3X120 + 3X70/3	0.161	352	48	52	52	7200	4128	5630
052166	3X150 + 3X70/3	0.129	404	52	56	56	9000	4992	6500
052269	3X185 + 3X95/3	0.106	461	56	61	61	11100	6240	7910
052270	3X240 + 3X120/3	0.0801	540	64	70	70	14400	8064	10380

RI	Conductor resistance
I _{bl}	Ampacity in air (30 °C)
Ø min.	outer diameter min.
Ø max.	outer diameter max.
Ø	outer diameter approx.
F _{zp}	Tensile strength (permanent)
Cu	Copper weight (GER)
G	net weight per 1000