

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:

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|--|----------------------------------|
| 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

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| Nominal voltage U_o: | 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 | RI [Ohm/km] | I _{bl} [A] | Ø min. [mm] | Ø max. [mm] | Ø [mm] | F _{zp} [N] | Cu | G [kg] |
|----------|-----------------|-------------|---------------------|-------------|-------------|--------|---------------------|------|--------|
| 053431 | 3x35 + 3x16/3 | 0.55 | 162 | | 31.1 | 31.1 | 2100 | 1181 | 1876 |
| 052266 | 3X50 + 3X25/3 | 0.39 | 202 | 34 | 37 | 37 | 3000 | 1680 | 2550 |
| 052267 | 3X70 + 3X35/3 | 0.27 | 250 | 40 | 43 | 43 | 4200 | 2352 | 3460 |
| 052268 | 3X95 + 3X50/3 | 0.21 | 301 | 43 | 46 | 46 | 5700 | 3216 | 4340 |
| 052165 | 3X120 + 3X70/3 | 0.16 | 352 | 48 | 52 | 52 | 7200 | 4128 | 5630 |
| 052166 | 3X150 + 3X70/3 | 0.13 | 404 | 52 | 56 | 56 | 9000 | 4992 | 6500 |
| 052269 | 3X185 + 3X95/3 | 0.11 | 461 | 56 | 61 | 61 | 11100 | 6240 | 7910 |
| 052270 | 3X240 + 3X120/3 | 0.08 | 540 | 64 | 70 | 70 | 14400 | 8064 | 10380 |

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|-----------------|------------------------------|
| 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 |

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