

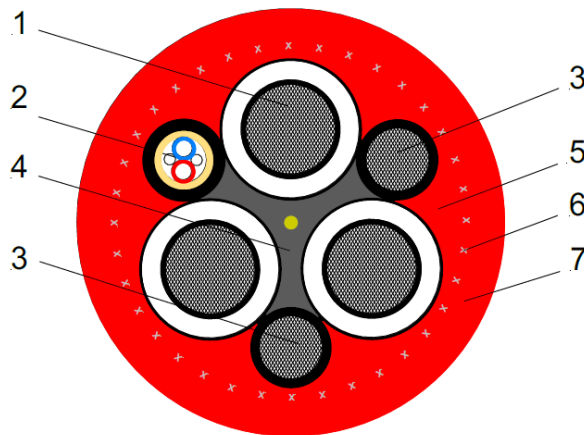
(N)TSKCGEWOEU-SR-Plus FO

Medium voltage reeling cable, 6/10 kV
+ 90°C service temperature, oil, UV, ozone and moisture resistant
adapted to DIN VDE 0250-813

Application

Flexible medium voltage reeling cable for the combined transmission of energy and data, under high or extreme mechanical stresses, e.g. high travel speeds, dynamic tensile loads, multiple changes of direction into different planes, churning on running over rollers and torsional stresses. Mainly for mobile equipment, e.g. fast-moving container cranes, cranes, large mobile equipment and excavators.

Construction



- | | |
|-------------------------|--|
| 1. Conductor: | Copper conductor, flexible (class 5) |
| Insulation: | EPR compound with improved electrical and mechanical characteristics based on DIN VDE 0207-20 |
| Electric field control: | Inner semiconductive stress control layer and outer semiconductive insulation shield layer
All three layers are applied and cross-linked in one process |
| 2. Optical fiber: | Fiber core diameter: 62,5, 50 or 9µm; diameter across the cladding: 125µm
Design available with 6,12, 18 or 24 fibers. |
| 3. Ground conductor: | Copper conductor, flexible (class 5) with semiconductive layer |
| 4. Core arrangement: | Power cores laid-up over a semi-conductive cradle separator with the divided ground conductor and the optical fiber element in the interstices |
| 5. Inner sheath: | Heavy duty rubber compound, type 5GM5 |
| 6. Anti-torsion braid: | Braid of synthetic threads in a vulcanized bond between inner and outer sheath |
| 7. Outer sheath: | Heavy duty rubber compound, type 5GM5 |

Technical information

Rated voltage	U_0/U	6/10 kV
Max. operating voltage	U_{max} AC	12 kV
Test voltage	AC	17 kV
Fiber specification	G62,5/125µm	IEC 60793-2-10 A1-OM1
Max. permissible temperature at conductor		+ 90 °C
Max. short circuit temperature of the conductor		+ 250 °C
Operating temperature	fixed installed	- 40 °C to + 80 °C
	flex operation	- 35 °C to + 80 °C
Min. bending radius mm		VDE 0298 Section 3
Min. distance with S-type directional changes		20 x D
Max. permanent tensile static		15 N/mm ²
Max. tensile load dynamic		30 N/mm ²
Travel speed		up to 240 m/min

(N)TSKCGEWOEU-SR-Plus FO

Medium voltage reeling cable, 6/10 kV
+ 90°C service temperature, oil, UV, ozone and moisture resistant
adapted to DIN VDE 0250-813

Safety parameters

Flame propagation single cable IEC 60332-1

Additional parameters

Weather resistance Unrestricted use outdoors and indoors, resistant to ozone, UV and moisture

Oil resistance DIN EN 60811-404

N° of cores and cross section mm ²	Outer diameter approx. mm	Weight approx. kg/km	Resistance at 20°C max. Ω/km	Current carrying capacity in air A	Short Circuit Current kA
6/10 kV					
3x35+2x25/2+2x(12G62,5)	48-51	3400	0,554	162	5,2

Current carrying capacity: single-core rubber-cables laid on surfaces at 30° C ambient temperature
Short circuit current for 1s (80 – 250 °C).

La version française de cette fiche technique est disponible sur demande.
De technische gegevens zijn op aanvraag in het Nederlands beschikbaar.