

(N)TSCGEWOEU SR Plus

Medium voltage reeling cable, 6/10 kV
+ 90°C service temperature, oil, UV, ozone and moisture resistant
DIN VDE 250 – 813

Application

Flexible medium voltage reeling cable for power supply with cable guidance in different levels, e.g. reel axis in travel direction. Especially for high and extreme mechanical stress. For connection of large material handling machines in open pit mines, different crane types in harbours, shipyards, stacker/reclaimers in stockyards and other industrial areas.

Construction



1. Conductor: Copper conductor, bare, flexible (class 5)
2. Insulation: EPR compound with improved electrical and mechanical characteristics based on DIN VDE 0207-20
- Identification: Natural colored insulation with black semiconductive layer
3. Electrical field control: Inner semi-conductive inner semi-conductive stress control layer
Outer semi-conductive insulation shield layer
4. Core arrangement: Three main cores laid up with optimized lay length, ground conductor cross-section split into 3 parts in the outer interstices.
5. Inner sheath: Heavy duty rubber compound, quality 5GM5 acc. to DIN VDE 0207-21, filling the interstices
6. Reinforcement: Braid made of synthetic threads, placed between inseparably bonded inner and outer sheath, acting as an anti-twist protection
7. Outer sheath: Heavy duty rubber compound, quality 5GM5acc. to DIN VDE 0207-21; colour: red;

Technical information

Rated voltage	kV	6/10
Max. operating voltage AC	kV	6,9/12
Max. operating voltage DC	kV	9/18
Test voltage AC	kV	17
Current carrying capacity		acc. to DIN VDE 0298-4

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Max. permissible temperature at conductor	+ 90 °C
Max. short circuit temperature of the conductor	+ 250 °C
Operating temperature	fix installed - 50 °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
Torsional stress	25°/m
Travel speed	up to 240 m/min

Additional parameters

Weather resistance	Unrestricted use outdoors and indoors, resistant to ozone, UV and moisture
Oil resistance	DIN EN/IEC 60811-404

N° of cores and cross section	Outer diameter min. – max.	Weight	Permissible tensile force static	Permissible tensile force dynamic
mm ²	approx. mm	approx. kg/km	N	N
6/10 kV				
3x25+3x25/3	40-43	2490	1125	1500
3x35+3x25/3	44-47	3020	1575	2100
3x50+3x25/3	47-50	3690	2250	3000
3x70+3x50/3	51-54	4575	3150	4200
3x95+3x50/3	56-59	5720	4275	5700
3x120+3x70/3	60-63	6790	5400	7200
3x150+3x70/3	64-67	8030	6750	9000
3x185+3x95/3	70-73	9590	8325	11100
3x240+3x120/3	77-80	12125	10800	14400

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