

**(N)TSCGEWÖU** extremely torsionally stiff**Technical data**

- Medium voltage power cable adapted to VDE 0250 part 813
- **Temperature range**  
flexing -20°C to +60°C  
fixed installation -20°C to +80°C
- **Nominal voltages**  
U<sub>0</sub>/U 3,6/6 kV  
U<sub>0</sub>/U 6/10 kV  
U<sub>0</sub>/U 8,7/15 kV  
U<sub>0</sub>/U 12/20 kV
- **Operating voltages max.**  
3,6/6 kV = 4,2/7,2 kV  
6/10 kV = 6,9/12 kV  
8,7/15 kV = 10,4/18 kV  
12/20 kV = 13,9/24 kV
- **Test voltages**  
3,6/6 kV = 11 kV  
6/10 kV = 17 kV  
8,7/15 kV = 24 kV  
12/20 kV = 29 kV
- **Minimum bending radius**  
15x outer Ø

**Cable structure**

- Tinned copper-conductor, to DIN VDE 0295 cl.5, fine-wire, BS 6360 cl.5, IEC 60228 cl.5
- Inner semi-conducting layer
- Core insulation of HEPR
- Outer semi-conducting layer
- Ground conductor with semi-conductive layer
- Cores concentrically stranded
- Inner sheath, sheath colour red
- Antitorsional protection
- Outer sheath of chloroprene rubber compound type 5GM3
- Sheath colour red

**Properties**

- maximum permissible speed 200 m/min is allowed when operating drums in one direction
- extremely torsion resistant
- resistant against oils and fats, atmospheric exposure and UV-radiation

**Note**

- Further dimensions and special designs on request

**Application**

Reeling medium voltage supply train for use in high mechanical stresses, such as in container cranes or large mobile equipment as well as excavators in the mining industry for days, in dry, damp, wet areas and outdoors.

**3,6/6kV**

Part no.	No.cores x cross-sec. mm <sup>2</sup>	Outer Ø min. - max. mm	Permanent load N	Tensile strain max. N	Cop. weight kg / km	Weight app. kg / km
38533	3 x 25 + 3 x 10	37,0 - 40,0	1500	2200	1008,0	2280,0
38534	3 x 35 + 3 x 10	40,0 - 43,0	2000	3100	1292,0	2750,0
38535	3 x 50 + 3 x 10	44,0 - 47,0	3000	4300	1728,0	3400,0
38536	3 x 70 + 3 x 16	47,0 - 50,0	4100	5100	2477,0	4100,0
38537	3 x 95 + 3 x 16	52,0 - 56,0	5600	7000	3197,0	5450,0
38538	3 x 120 + 3 x 25	56,0 - 60,0	7100	8500	4176,0	6650,0

**8,7/15kV**

Part no.	No.cores x cross-sec. mm <sup>2</sup>	Outer Ø min. - max. mm	Permanent load N	Tensile strain max. N	Cop. weight kg / km	Weight app. kg / km
38545	3 x 25 + 3 x 10	43,0 - 46,0	1500	2200	1008,0	2750,0
38546	3 x 35 + 3 x 10	46,0 - 48,0	2000	3100	1292,0	3210,0
38547	3 x 50 + 3 x 10	49,0 - 52,0	3000	4300	1728,0	3950,0
39040	3 x 70 + 3 x 16	53,0 - 57,0	4100	5100	2477,0	5000,0
39041	3 x 95 + 3 x 16	58,0 - 62,0	5600	7000	3197,0	6150,0
39042	3 x 120 + 3 x 25	63,0 - 67,0	7100	8500	4176,0	7700,0

**6/10kV**

Part no.	No.cores x cross-sec. mm <sup>2</sup>	Outer Ø min. - max. mm	Permanent load N	Tensile strain max. N	Cop. weight kg / km	Weight app. kg / km
38539	3 x 25 + 3 x 10	39,0 - 42,0	1500	2200	1008,0	2400,0
38540	3 x 35 + 3 x 10	42,0 - 45,0	2000	3100	1292,0	2900,0
38541	3 x 50 + 3 x 10	45,0 - 48,0	3000	4300	1728,0	3450,0
38542	3 x 70 + 3 x 16	50,0 - 54,0	4100	5100	2477,0	4600,0
38543	3 x 95 + 3 x 16	54,0 - 58,0	5600	7000	3197,0	5770,0
38544	3 x 120 + 3 x 25	58,0 - 62,0	7100	8500	4176,0	6900,0

**12/20kV**

Part no.	No.cores x cross-sec. mm <sup>2</sup>	Outer Ø min. - max. mm	Permanent load N	Tensile strain max. N	Cop. weight kg / km	Weight app. kg / km
39043	3 x 25 + 3 x 10	46,0 - 49,0	1500	2200	1008,0	3040,0
39044	3 x 35 + 3 x 10	49,0 - 52,0	2000	3100	1292,0	3510,0
39045	3 x 50 + 3 x 10	53,0 - 57,0	3000	4300	1728,0	4410,0
39046	3 x 70 + 3 x 16	57,0 - 61,0	4100	5100	2477,0	5420,0
39047	3 x 95 + 3 x 16	62,0 - 66,0	5600	7000	3197,0	6750,0
39048	3 x 120 + 3 x 25	67,0 - 70,0	7100	8500	4176,0	8050,0

Dimensions and specifications may be changed without prior notice. (RQ03)



Suitable accessories can be found in Chapter X.

- Tool - HAM 1