

(N)TSCGEWÖU extremely torsionally stiff

new



Technical data

- Medium voltage power cable according to VDE 0250 part 813
- **Temperature range**
flexing -20 °C to +60 °C
fixed installation -20 °C to +80 °C
- **Nominal voltages**
U₀/U 3,6/6kV, 6/10 kV, 8,7/15kV, 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 diameter

Cable structure

- Tinned copper conductor, fine wire stranded according to DIN VDE 0295 cl. 5, BS 6360 cl. 5 and IEC 60228 cl. 5
- Inner semi-conducting layer
- HEPR-insulation
- Outer semi-conducting layer
- Ground conductor with semi-conductive layer
- Cores concentrically stranded
- Inner jacket, jacket colour red
- Antitorsional protection
- Outer sheath: chloroprene rubber, compound 5GM3
- Jacket 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 ²	Outer Ø min. - max. mm	Permanent load N	Tensile strain max. N	Cop. weight kg / km	Weight approx. 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

6/10kV

Part no.	No. cores x cross-sec. mm ²	Outer Ø min. - max. mm	Permanent load N	Tensile strain max. N	Cop. weight kg / km	Weight approx. 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

8,7/15kV

Part no.	No. cores x cross-sec. mm ²	Outer Ø min. - max. mm	Permanent load N	Tensile strain max. N	Cop. weight kg / km	Weight approx. 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

12/20kV

Part no.	No. cores x cross-sec. mm ²	Outer Ø min. - max. mm	Permanent load N	Tensile strain max. N	Cop. weight kg / km	Weight approx. 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	1 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)