



Heavy-duty rubber cables (NSSHÖU)

NTSCGERLWÖU

Armoured Submersible-Pump Cable

3.6/6 & 6/10 kV water-blocked steel-wire-armoured MV submersible pump rubber cable



DIN VDE 0250-813

3.6/6 kV & 6/10 kV

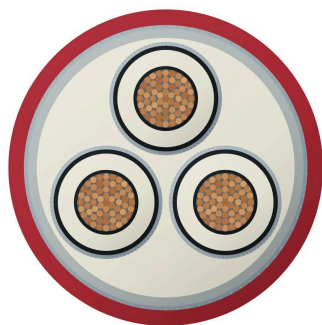
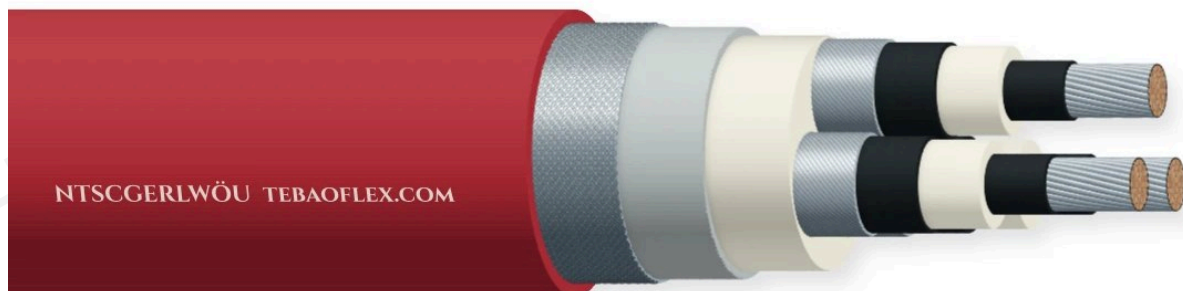
Water-Blocked LW · RWA

Application

Medium-voltage 3.6/6 kV and 6/10 kV submersible pump and mine shaft riser cable to DIN VDE 0250-813 with Class 5 tinned copper conductors, 3GI3 EPR dielectric, longitudinal/radial water-blocking (LW), galvanised steel wire armour (R) and 5GM5 sheath.

Typical uses: Deep-shaft mine dewatering pumps, Open-pit & quarry pontoon pumping, Offshore ballast & caisson pumps, Cavern & tunnel flood control, High-head raw-water intake shafts

Construction



Cross-section, not to scale

1	Tinned copper conductor	DIN VDE 0295 Class 5
2	Semiconductive field control	DIN VDE 0250-813
3	MV 3GI3 EPR dielectric	DIN VDE 0207-20 3GI3
4	Water-blocking barrier (LW)	
5	Elastomeric inner bedding	DIN VDE 0207-21
6	Round steel wire armour (R)	
7	Heavy-duty 5GM5 outer sheath	

Technical data

Typical values

Rated voltage U ₀ /U	3.6/6 kV (U _m 7.2 kV) or 6/10 kV (U _m 12 kV)	AC test voltage	11 kV AC (3.6/6 kV) · 17 kV AC (6/10 kV), 50 Hz, 5 min
Partial discharge level	≤ 20 pC at 2 × U ₀	Phase field control	Extruded inner ('C') & outer ('E') semiconductive elastomer layers
Protective earth conductor	Split into 3 symmetrical interstitial tinned-copper cores (3E)	Max. conductor temperature	+90 °C continuous operation
Short-circuit temperature	+250 °C max. on phase conductors (5 s)	Max. water temperature	+60 °C to +70 °C continuous submersion
Ambient temperature range	−25 °C to +80 °C flexing · −40 °C to +80 °C fixed	Min. bending radius, fixed	10 × overall diameter
Min. bending radius, deployment	15 × overall diameter	Vertical suspension tensile load	30–50 N/mm ² carried by galvanised round steel wire armour ('R')
Crush & impact protection	Galvanised steel wire armour resists shaft rock-fall & clamp loads	Water tightness (LW)	Longitudinal & radial water-blocked construction for deep AD8 submersion
Oil & chemical resistance	EN 60811-404 oil, acidic mine water & slurry resistant (5GM5 'Ö')	Flame retardance	IEC 60332-1-2 / EN 60332-1-2 self-extinguishing
Weather & ozone	Ozone-immune 3GI3 core & UV-stabilised 5GM5 outer sheath	Standards	DIN VDE 0250-813 (with R armour & LW water-blocking)
Standard packing	Heat-treated ISPM-15 timber drums with sealed cable ends		

Sizes

14 standard constructions

Tick the sizes you need and send this page to info@tebaoflex.com or WhatsApp +86 185 9591 3361.

Order designation	Cores × mm ²	AWG ≈	Outer Ø min mm	Outer Ø max mm	Copper kg/km	Weight ≈ kg/km	Min. bend R mm
3.6/6 kV (U _m 7.2 kV) NTSCGERLWÖU Armoured Submersible Pump Cables 6 sizes							
☐ NTSCGERLWÖU 3×25+3×25/3E 3.6/6 kV	3×25+3×25/3E	4	40.9	44.5	960	3,150	445
☐ NTSCGERLWÖU 3×35+3×25/3E 3.6/6 kV	3×35+3×25/3E	2	44.0	47.8	1,248	3,680	478
☐ NTSCGERLWÖU 3×50+3×25/3E 3.6/6 kV	3×50+3×25/3E	1	47.4	51.5	1,680	4,420	515
☐ NTSCGERLWÖU 3×70+3×35/3E 3.6/6 kV	3×70+3×35/3E	2/0	51.7	56.2	2,352	5,490	562
☐ NTSCGERLWÖU 3×95+3×50/3E 3.6/6 kV	3×95+3×50/3E	3/0	56.1	61.0	3,216	6,780	610
☐ NTSCGERLWÖU 3×120+3×70/3E 3.6/6 kV	3×120+3×70/3E	4/0	60.2	65.4	4,128	8,120	654
6/10 kV (U _m 12 kV) NTSCGERLWÖU Armoured Submersible Pump Cables 8 sizes							
☐ NTSCGERLWÖU 3×25+3×25/3E 6/10 kV	3×25+3×25/3E	4	43.4	47.2	960	3,480	472
☐ NTSCGERLWÖU 3×35+3×25/3E 6/10 kV	3×35+3×25/3E	2	46.4	50.4	1,248	4,010	504
☐ NTSCGERLWÖU 3×50+3×25/3E 6/10 kV	3×50+3×25/3E	1	49.9	54.2	1,680	4,790	542
☐ NTSCGERLWÖU 3×70+3×35/3E 6/10 kV	3×70+3×35/3E	2/0	54.3	59.0	2,352	5,880	590
☐ NTSCGERLWÖU 3×95+3×50/3E 6/10 kV	3×95+3×50/3E	3/0	58.7	63.8	3,216	7,210	638
☐ NTSCGERLWÖU 3×120+3×70/3E 6/10 kV	3×120+3×70/3E	4/0	62.7	68.2	4,128	8,590	682
☐ NTSCGERLWÖU 3×150+3×70/3E 6/10 kV	3×150+3×70/3E	300 kcmil	66.7	72.5	4,992	9,850	725
☐ NTSCGERLWÖU 3×185+3×95/3E 6/10 kV	3×185+3×95/3E	350 kcmil	71.2	77.4	6,240	11,680	774

– Dimensions and weights are typical values per DIN VDE 0250-813. Minimum fixed bending radius shown is 10 × OD.

Electrical & current ratings

8 sizes

Cross-section mm ²	AWG ≈	Max. DC resistance 20 °C, Ω/km	1-core in air 30 °C, A	3–4 core in air 30 °C, A
25	4	0.795	131	108
35	2	0.565	162	135
50	1	0.393	202	168
70	2/0	0.277	250	207
95	3/0	0.21	301	250
120	4/0	0.164	352	292
150	300 kcmil	0.132	404	335
185	350 kcmil	0.108	461	382

– Current ratings at 30 °C ambient in free air per DIN VDE 0298-4 / EN 50565-1. Apply derating factors for elevated ambient temperature or reeling layer grouping.

Standards and approvals

- ✓ DIN VDE 0250-813
- ✓ CE · RoHS 2 (2011/65/EU) · REACH

Certifications



Management systems: ISO 9001, ISO 14001, ISO 45001

Request a quotation

Send the size, length and destination. An application engineer replies within 2 business hours.

WhatsApp / phone

+86 185 9591 3361

Email

info@tebaoflex.com

Web

tebaoflex.com/cables/ntscgerlwöu-armoured-submersible-pump-cable



Typical values for this cable type, based on DIN VDE 0250-813. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.