



DIN VDE 0250-812 / 813 mining trailing cables

NTSCGECCWÖU

Steel-Wire Armoured MV Trailing Cable

DIN VDE 0250-813 3.6/6 kV to 12/20 kV double-screened & wave-armoured (CCW) MV trailing



DIN VDE 0250-813

3.6/6 to 12/20 kV

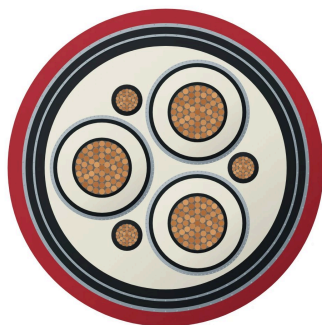
CCW Double Screen & SWA

Application

NTSCGECCWÖU is a medium-voltage (3.6/6 kV, 6/10 kV, and 12/20 kV) steel-wire armoured mining trailing cable per DIN VDE 0250-813 featuring individual CGE phase screens plus an overall wave-laid copper/galvanized-steel armour screen (CCW) and a 5GM5

Typical uses: Open-cast & underground mining, Medium-voltage mobile substations, Tunnel boring machine (TBM) feeders, Quarry crushers & draglines

Construction



Cross-section, not to scale

1	Phase conductors	DIN EN 60228 Class 5
2	Inner & outer semicon (GE)	DIN VDE 0250-813
3	MV EPR insulation (3GI3)	DIN VDE 0207-20
4	Individual phase screen (C)	DIN VDE 0250-813
5	Inner sheath	DIN VDE 0250-813
6	Wave-laid Cu/steel armour (CW)	DIN VDE 0250-813
7	Outer sheath (5GM5)	DIN VDE 0207-21

Technical data

Typical values

Rated voltage U ₀ /U	3.6/6 kV · 6/10 kV · 12/20 kV	AC routine test voltage	11 kV (3.6/6 kV) · 17 kV (6/10 kV) · 29 kV
Partial discharge level	≤ 20 pC at 2 U ₀	Dual metallic screening	Individual phase screen (C) + overall wave
Max. conductor operating temp.	+90 °C	Max. short-circuit temperature	+250 °C (5 s)
Ambient temperature (trailing)	-25 °C to +60 °C	Ambient temperature (fixed)	-40 °C to +80 °C
Armour system	Wave-laid galvanized steel + copper wires	Min. bending radius (fixed)	8 × D fixed · 12 × D trailing
Max. tensile load	20 N/mm ² of copper cross-section	Oil & chemical resistance	DIN EN 60811-404 (5GM5 compound)
Flame retardancy	DIN EN 60332-1-2 self-extinguishing	Weather & UV resistance	Suitable for permanent outdoor open-cast
Standards	DIN VDE 0250-813		

Sizes

10 standard constructions

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

Order designation	Configuration	Phase size mm ²	Outer Ø ≈ mm	Copper kg/km	Weight ≈ kg/km	Min. bend R fixed mm
Standard NTSCGECCWÖU configurations 10 sizes						
☐ NTSCGECCWÖU 3×25+25CW 3.6/6 kV	3×25 + 25CW (3.6/6 kV)	25	45.0	1,120	3,180	270
☐ NTSCGECCWÖU 3×35+25CW 3.6/6 kV	3×35 + 25CW (3.6/6 kV)	35	48.2	1,410	3,690	289
☐ NTSCGECCWÖU 3×50+25CW 3.6/6 kV	3×50 + 25CW (3.6/6 kV)	50	52.5	1,850	4,480	315
☐ NTSCGECCWÖU 3×70+35CW 3.6/6 kV	3×70 + 35CW (3.6/6 kV)	70	57.2	2,530	5,490	343
☐ NTSCGECCWÖU 3×95+50CW 3.6/6 kV	3×95 + 50CW (3.6/6 kV)	95	62.5	3,450	6,810	375
☐ NTSCGECCWÖU 3×120+70CW 3.6/6 kV	3×120 + 70CW (3.6/6 kV)	120	67.2	4,390	8,150	403
☐ NTSCGECCWÖU 3×35+25CW 6/10 kV	3×35 + 25CW (6/10 kV)	35	51.5	1,445	4,120	309
☐ NTSCGECCWÖU 3×50+25CW 6/10 kV	3×50 + 25CW (6/10 kV)	50	55.8	1,885	4,940	335
☐ NTSCGECCWÖU 3×70+35CW 6/10 kV	3×70 + 35CW (6/10 kV)	70	60.5	2,570	6,010	363
☐ NTSCGECCWÖU 3×50+25CW 12/20 kV	3×50 + 25CW (12/20 kV)	50	63.0	1,950	6,120	378

– Outer diameters and weights are nominal factory values subject to ±5 % manufacturing tolerance per DIN VDE 0250-813.

Electrical & ampacity data

10 sizes

Configuration	Max. DC R @ 20 °C Ω/km	Current rating in air (A)	Current rating installed (A)	Mutual C pF/m≈	AC test V _{rms}
3×25 + 25CW (3.6/6 kV)	0.799	122	104	151	11,000
3×35 + 25CW (3.6/6 kV)	0.568	150	128	168	11,000
3×50 + 25CW (3.6/6 kV)	0.396	187	159	192	11,000
3×70 + 35CW (3.6/6 kV)	0.279	229	195	226	11,000
3×95 + 50CW (3.6/6 kV)	0.211	276	235	267	11,000
3×120 + 70CW (3.6/6 kV)	0.165	319	271	308	11,000
3×35 + 25CW (6/10 kV)	0.568	150	128	168	17,000
3×50 + 25CW (6/10 kV)	0.396	187	159	192	17,000
3×70 + 35CW (6/10 kV)	0.279	229	195	226	17,000
3×50 + 25CW (12/20 kV)	0.396	187	159	192	30,000

– Current ratings apply at +30 °C ambient in free air; apply standard derating factors for elevated ambient or drum layers.

Standards and approvals

- ✓ DIN VDE 0250-813
- ✓ DIN EN 60332-1-2
- ✓ EN 10204 3.1

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

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Email

info@tebaoflex.com

Web

tebaoflex.com/cables/ntscgeccwoeu-steel-wire-armoured-mv-trailing-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.