



power connection cable series

NTMCWÖU

Extra-Flexible Single-Core MV Connection Cable

DIN VDE 0250-813 3.6/6–18/30 kV unscreened extra-flexible EPR/PCP MV jumper cable



DIN VDE 0250-813 NTMCWÖU

3.6/6 kV to 18/30 kV Unscreened

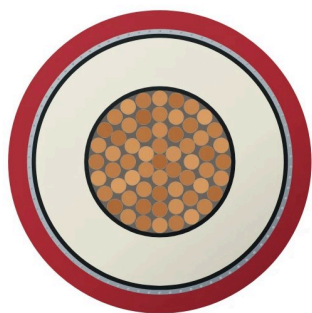
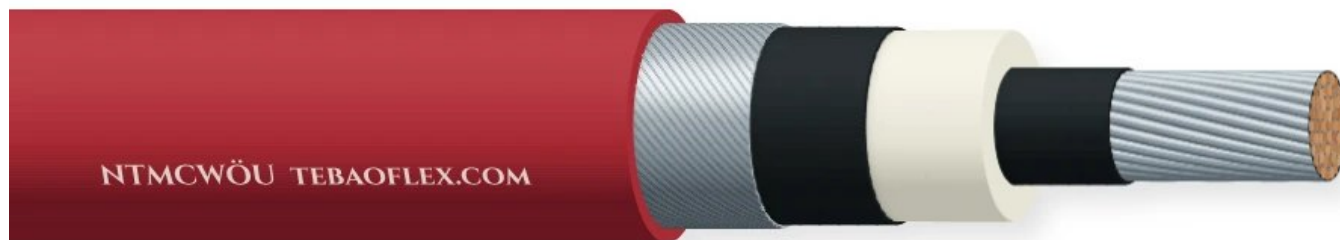
Class 5 Tinned Cu + EPR/PCP

Application

NTMCWÖU (and (N)TMCWÖU) Extra-Flexible Single-Core Medium-Voltage Connection Cable (3.6/6 kV, 6/10 kV, 12/20 kV & 18/30 kV; 16 mm² to 500 mm²) engineered to DIN VDE 0250-813 with Class 5 fine-stranded tinned copper conductor, inner.

Typical uses: Medium-Voltage Switchgear Internal Bus & Breaker Jumpers, 6 kV / 10 kV / 15 kV Industrial Motor Terminal Leads, Dry-Type & Oil-Filled Transformer Secondary Connections, Locomotive & Traction Converter High-Voltage Cubicles, Wind Turbine & Marine Propulsion MV Drive Cabinets

Construction



Cross-section, not to scale

- 1 Class 5 fine-stranded tinned copper conductor
- 2 Extruded inner semiconducting elastomer layer ('C')
- 3 3GI3 Ethylene Propylene Rubber (EPR) MV dielectric
- 4 5GM3 Polychloroprene ('WÖU') weather & oil-resistant sheath

Technical data

Typical values

Rated voltage tiers (U _o /U)	3.6/6 kV · 6/10 kV · 12/20 kV · 18/30 kV (U _{max} 7.2 / 12 / 24 / 36 kV)	Routine AC test voltage	11 kV (3.6/6) · 17 kV (6/10) · 29 kV (12/20) · 43 kV (18/30) for 5 min
Max. DC resistance @ 20 °C	0.798 Ω/km (25) · 0.393 Ω/km (50) · 0.206 Ω/km (95) · 0.0817 Ω/km (240)	Free-air ampacity (30 °C)	158 A (25) · 245 A (50) · 375 A (95) · 500 A (150) · 680 A (240)
Max. conductor temperature	+90 °C continuous operation	Short-circuit temperature	+250 °C (up to 5 s)
Ambient temperature range	-40 °C to +80 °C (fixed) · -25 °C to +80 °C (flexible)	Min. bend radius	5 × OD (fixed cubicle routing) · 10 × OD (flexible movement)
Max. tensile load	15 N / mm ² of copper conductor cross-section	Termination clearance	No outer screen strip-back needed; compact lug termination
Ozone & corona resistance	3GI3 EPR + 5GM3 PCP resists high-voltage surface ozone in air	Oil & chemical resistance	EN 60811-404 mineral & transformer oil resistant ('Ö')
Flame propagation	IEC 60332-1-2 / DIN EN 60332-1-2 self-extinguishing ('U')	Standards	DIN VDE 0250-813 (NTMCWÖU)

Sizes

6 standard constructions

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

VDE designation	Conductor & voltage	Outer Ø ≈ mm	Weight ≈ kg/km	Max. DC R Ω/km	Air 30°C A
6/10 kV NTMCWÖU Unscreened 4 sizes					
☐ NTMCWÖU 1×35 6/10kV	1 × 35 mm ² Cl.5 Tinned Cu · 6/10 kV	19.8	580	0.5650	198
☐ NTMCWÖU 1×70 6/10kV	1 × 70 mm ² Cl.5 Tinned Cu · 6/10 kV	23.6	965	0.2770	305
☐ NTMCWÖU 1×120 6/10kV	1 × 120 mm ² Cl.5 Tinned Cu · 6/10 kV	27.8	1,490	0.1640	430
☐ NTMCWÖU 1×240 6/10kV	1 × 240 mm ² Cl.5 Tinned Cu · 6/10 kV	35.2	2,760	0.0817	680
12/20 kV (N)TMCWÖU Unscreened 2 sizes					
☐ (N)TMCWÖU 1×50 12/20kV	1 × 50 mm ² Cl.5 Tinned Cu · 12/20 kV	25.4	890	0.3930	248
☐ (N)TMCWÖU 1×150 12/20kV	1 × 150 mm ² Cl.5 Tinned Cu · 12/20 kV	33.4	1,950	0.1320	500

– Also stocked in 3.6/6 kV and 18/30 kV (and 26/45 kV railway pantograph version) from 16 mm² to 500 mm².

Standards and approvals

- ✓ DIN VDE 0250-813 (NTMCWÖU)
- ✓ DIN VDE 0298-3 / 0298-4
- ✓ RoHS 2, REACH & CE

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/ntmcwoeu-extra-flexible-single-core-mv-connection-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.