



Mining trailing & reeling cables

(N)TMCGETMPU / RIT- (N)TMCGETMPU / (N)TMCETMPU (6/10–14/25 kV)

(N)TMCGETMPU MV Portable Trailing PUR Cable

6/10, 8.7/15 & 14/25 kV 3-core mining trailing & reeling cable with 5.5 mm TPU jacket



VDE 0250-813 · IEC 60502

6/10, 8.7/15 & 14/25 kV

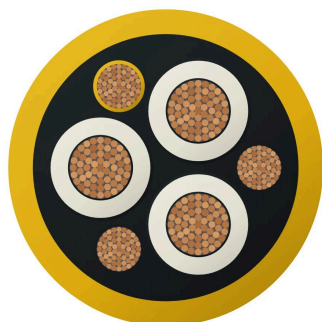
5.5 mm Yellow TPU · 7.5 × D Reel

Application

Medium-voltage 3-conductor portable trailing and reeling cable (6/10, 8.7/15 and 14/25 kV, 50–185 mm²) based on DIN VDE 0250-813 and IEC 60502, featuring 3 EPR phase cores, 2 grounding conductors, 1 yellow PP ground-check core and a 5.5 mm yellow TPU jacket.

Typical uses: Opencast electric shovels, draglines & drills, Underground continuous miners & shuttle cars, Self-driven mining loaders & cutting machines, Mining dredges & quarry mobile crushers, Heavy MV mobile substation & reel feeds

Construction



Cross-section, not to scale

1	Power conductors	IEC 60228 Class 5
2	Conductor shield	DIN VDE 0250-813 · IEC 60502
3	EPR core insulation	DIN VDE 0207-20
4	Insulation shield	DIN VDE 0250-813
5	Mixed Cu/textile core braid ((N)TMCETMPU)	
6	Grounding conductors (2 × G)	IEC 60228
7	Ground-check conductor (GC)	IEC 60228
8	Overall binder tape	
9	Outer jacket (TPU / PUR)	DIN VDE 0250-813

Technical data

Typical values

Rated voltage U0/U	6/10 kV · 8.7/15 kV · 14/25 kV three-conductor portable trailing & reeling cable	5-minute AC test voltage	17 kV AC for 6/10 kV · 24 kV AC for 8.7/15 kV · 36 kV AC for 14/25 kV (5 min duration)
Grounding & ground-check circuit	2 finely stranded tinned Cu grounding cores (2×16 to 2×70 mm²) + 1 yellow polypropylene-insulated ground-check core (10, 16 or 35 mm²)	Conductor temperature ratings	+90 °C continuous · +130 °C short-time overload (2 h) · +250 °C short-circuit (+200 °C on RIT series)
Low-temperature flexibility	Flexible down to -30 °C	Minimum bending radius	≥ 4 × D fixed installation · ≥ 7.5 × D free bending on reeling drum
Jacket thickness & torsion lock	5.5 mm extra-heavy-duty yellow thermoplastic polyurethane (TPU) jacket (integral filled on RIT series for higher torsion resistance)	Abrasion, tear, oil & flame	Extra-heavy TPU jacket with high tear/impact resistance, oil resistance, UV/ozone resistance and MSHA flame reference
Insulation wall systems	Standard wall (3.4 / 4.5 / 6.8 mm EPR) vs RIT Reduced Insulation Thickness (2.9 / 3.7 / 5.5 mm high-grade EPR, better than 3GI3)	Standards	Based on DIN VDE 0250-813 · IEC 60502 · IEC 60228 Class 5 (0.40 mm fine tinned copper wires)

Sizes

24 standard constructions

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

Designation Series & Size	Voltage kV	Wall Type	Phase mm ²	Phase strand N × mm	2×Earth + 1×GC mm ²	Insul. mm	TPU Jacket mm	Nom. OD mm	DC Res. 20°C Ω/km	Ampacity 30°C A	Mass ≈ kg/km
☐ (N)TMCGETMPU · 6/10 kV · 3×70+2×35+1×35	6/10	Standard	70	514×0.4	2×35 + 1×35	3.4	5.5	54.3	0.277	250	5,334
☐ (N)TMCGETMPU · 6/10 kV · 3×95+2×35+1×35	6/10	Standard	95	684×0.4	2×35 + 1×35	3.4	5.5	62.1	0.210	301	6,701
☐ (N)TMCGETMPU · 6/10 kV · 3×120+2×50+1×35	6/10	Standard	120	870×0.4	2×50 + 1×35	3.4	5.5	65.8	0.164	352	7,267
☐ (N)TMCGETMPU · 6/10 kV · 3×185+2×70+1×35	6/10	Standard	185	1325×0.4	2×70 + 1×35	3.4	5.5	75.1	0.108	461	10,900
☐ (N)TMCGETMPU · 8.7/15 kV · 3×70+2×35+1×35	8.7/15	Standard	70	514×0.4	2×35 + 1×35	4.5	5.5	62.7	0.277	265	5,900
☐ (N)TMCGETMPU · 8.7/15 kV · 3×95+2×35+1×35	8.7/15	Standard	95	684×0.4	2×35 + 1×35	4.5	5.5	67.7	0.210	319	6,900
☐ (N)TMCGETMPU · 8.7/15 kV · 3×120+2×50+1×35	8.7/15	Standard	120	870×0.4	2×50 + 1×35	4.5	5.5	71.7	0.164	371	8,200
☐ (N)TMCGETMPU · 8.7/15 kV · 3×185+2×70+1×35	8.7/15	Standard	185	1325×0.4	2×70 + 1×35	4.5	5.5	76.2	0.108	488	11,900
☐ (N)TMCGETMPU · 14/25 kV · 3×70+2×35+1×35	14/25	Standard	70	514×0.4	2×35 + 1×35	6.8	5.5	69.2	0.277	265	7,800
☐ (N)TMCGETMPU · 14/25 kV · 3×95+2×35+1×35	14/25	Standard	95	684×0.4	2×35 + 1×35	6.8	5.5	74.8	0.210	319	8,800
☐ (N)TMCGETMPU · 14/25 kV · 3×120+2×50+1×35	14/25	Standard	120	870×0.4	2×50 + 1×35	6.8	5.5	77.8	0.164	371	9,200
☐ (N)TMCGETMPU · 14/25 kV · 3×185+2×70+1×35	14/25	Standard	185	1325×0.4	2×70 + 1×35	6.8	5.5	85.8	0.108	488	13,800
☐ RIT-(N)TMCGETMPU · 6/10 kV · 3×70+2×35+1×35	6/10	RIT Reduced	70	514×0.4	2×35 + 1×35	2.9	5.5	53.2	0.277	250	5,050
☐ RIT-(N)TMCGETMPU · 6/10 kV · 3×95+2×35+1×35	6/10	RIT Reduced	95	684×0.4	2×35 + 1×35	2.9	5.5	61.0	0.210	301	6,401
☐ RIT-(N)TMCGETMPU · 6/10 kV · 3×120+2×50+1×35	6/10	RIT Reduced	120	870×0.4	2×50 + 1×35	2.9	5.5	64.7	0.164	352	7,067
☐ RIT-(N)TMCGETMPU · 6/10 kV · 3×185+2×70+1×35	6/10	RIT Reduced	185	1325×0.4	2×70 + 1×35	2.9	5.5	74.0	0.108	461	10,300
☐ RIT-(N)TMCGETMPU · 8.7/15 kV · 3×70+2×35+1×35	8.7/15	RIT Reduced	70	514×0.4	2×35 + 1×35	3.7	5.5	61.0	0.277	265	5,300
☐ RIT-(N)TMCGETMPU · 8.7/15 kV · 3×95+2×35+1×35	8.7/15	RIT Reduced	95	684×0.4	2×35 + 1×35	3.7	5.5	66.0	0.210	319	6,300
☐ RIT-(N)TMCGETMPU · 8.7/15 kV · 3×120+2×50+1×35	8.7/15	RIT Reduced	120	870×0.4	2×50 + 1×35	3.7	5.5	70.0	0.164	371	7,600
☐ RIT-(N)TMCGETMPU · 8.7/15 kV · 3×185+2×70+1×35	8.7/15	RIT Reduced	185	1325×0.4	2×70 + 1×35	3.7	5.5	77.5	0.108	488	11,300
☐ RIT-(N)TMCGETMPU · 14/25 kV · 3×70+2×35+1×35	14/25	RIT Reduced	70	514×0.4	2×35 + 1×35	5.5	5.5	67.4	0.277	265	7,200
☐ RIT-(N)TMCGETMPU · 14/25 kV · 3×95+2×35+1×35	14/25	RIT Reduced	95	684×0.4	2×35 + 1×35	5.5	5.5	73.0	0.210	319	8,200
☐ RIT-(N)TMCGETMPU · 14/25 kV · 3×120+2×50+1×35	14/25	RIT Reduced	120	870×0.4	2×50 + 1×35	5.5	5.5	76.0	0.164	371	8,600
☐ RIT-(N)TMCGETMPU · 14/25 kV · 3×185+2×70+1×35	14/25	RIT Reduced	185	1325×0.4	2×70 + 1×35	5.5	5.5	84.0	0.108	488	13,200

- All 24 configurations in this view use 254×0.4 mm (35 mm²) ground-check conductors with yellow polypropylene insulation and a 5.5 mm yellow TPU outer jacket.

- RIT-(N)TMCGETMPU uses reduced EPR insulation thickness (2.9 / 3.7 / 5.5 mm vs 3.4 / 4.5 / 6.8 mm) and an integral filled TPU jacket to reduce cable diameter and mass by ~300–600 kg/km.

(N)TMCETMPU Cu/Textile Braid-Screened

15 sizes

Designation (N)TMCETMPU	Voltage kV	Phase mm ²	Phase strand N × mm	2×Earth + 1×GC mm ²	Insul. mm	TPU jacket mm	Nom. OD mm	DC Res. 20°C Ω/km	Ampacity 30°C A	Mass ≈ kg/km
(N)TMCETMPU · 6/10 kV · 3×50+2×16+1×10	6/10	50	364×0.4	2×16 + 1×10	3.4	5.5	54.0	0.393	202	4,307
(N)TMCETMPU · 6/10 kV · 3×70+2×35+1×10	6/10	70	514×0.4	2×35 + 1×10	3.4	5.5	54.8	0.277	250	5,534
(N)TMCETMPU · 6/10 kV · 3×95+2×35+1×16	6/10	95	684×0.4	2×35 + 1×16	3.4	5.5	62.6	0.210	301	6,901
(N)TMCETMPU · 6/10 kV · 3×120+2×50+1×10	6/10	120	870×0.4	2×50 + 1×10	3.4	5.5	66.3	0.164	352	7,467
(N)TMCETMPU · 6/10 kV · 3×185+2×70+1×35	6/10	185	1325×0.4	2×70 + 1×35	3.4	5.5	75.6	0.108	461	11,100
(N)TMCETMPU · 8.7/15 kV · 3×50+2×16+1×10	8.7/15	50	364×0.4	2×16 + 1×10	4.5	5.5	60.3	0.393	215	4,900
(N)TMCETMPU · 8.7/15 kV · 3×70+2×35+1×10	8.7/15	70	514×0.4	2×35 + 1×10	4.5	5.5	63.2	0.277	265	6,100
(N)TMCETMPU · 8.7/15 kV · 3×95+2×35+1×16	8.7/15	95	684×0.4	2×35 + 1×16	4.5	5.5	68.2	0.210	319	7,100
(N)TMCETMPU · 8.7/15 kV · 3×120+2×50+1×10	8.7/15	120	870×0.4	2×50 + 1×10	4.5	5.5	72.2	0.164	371	8,400
(N)TMCETMPU · 8.7/15 kV · 3×185+2×70+1×35	8.7/15	185	1325×0.4	2×70 + 1×35	4.5	5.5	76.7	0.108	488	12,100
(N)TMCETMPU · 14/25 kV · 3×50+2×16+1×10	14/25	50	364×0.4	2×16 + 1×10	6.8	5.5	65.1	0.393	215	6,800
(N)TMCETMPU · 14/25 kV · 3×70+2×35+1×10	14/25	70	514×0.4	2×35 + 1×10	6.8	5.5	69.7	0.277	265	8,000
(N)TMCETMPU · 14/25 kV · 3×95+2×35+1×16	14/25	95	684×0.4	2×35 + 1×16	6.8	5.5	75.3	0.210	319	9,000
(N)TMCETMPU · 14/25 kV · 3×120+2×50+1×10	14/25	120	870×0.4	2×50 + 1×10	6.8	5.5	78.3	0.164	371	9,400
(N)TMCETMPU · 14/25 kV · 3×185+2×70+1×35	14/25	185	1325×0.4	2×70 + 1×35	6.8	5.5	86.3	0.108	488	14,000

– (N)TMCETMPU adds a mixed braid of tinned copper wires and coloured textile identification threads (black, white, red) over each triple-extruded EPR power core.

Standards and approvals

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.

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Typical values for this cable type, based on DIN VDE 0250-813 · IEC 60502 · IEC 60228 Class 5. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.