



Low-voltage rubber mining & trailing cables

TRM-J

0.69/1.15 kV Concentric-Screened Rubber Mining Trailing Cable

Tinned copper, 3GI3 EPR, $\geq 90\%$ copper braid screen & yellow 5GM3 rubber jacket



0.69/1.15 kV

DIN VDE 0250-812

 $\geq 90\%$ Tinned Cu Screen

Application

Heavy-duty 0.69/1.15 kV (640/1100 V) screened rubber mining and trailing cable (TRM-J) to DIN VDE 0250-812, featuring Class 5 tinned copper cores, 3GI3 EPR insulation, $\geq 90\%$ tinned copper braid screen, and yellow 5GM3 rubber outer sheath.

Typical uses: Underground hard-rock & coal mining, Open-pit quarries & aggregate conveyors, Tunnel boring & drill-jumbo feeders, Submersible & dewatering mine pumps, Mobile crushers, screens & stackers, Heavy civil engineering & shaft sinking

Construction



Cross-section, not to scale

- 1 Conductors
- 2 Core insulation
- 3 Inner sheath
- 4 Concentric copper braid screen
- 5 Outer sheath

Technical data

Typical values

Rated voltage U0/U (Um)	640/1100 V nominal · 0.69/1.15 kV max AC · Um = 1,270 V (max DC 1,000/1,800 V)	Voltage test	3.0 kV AC for 5 minutes
Ambient temperature — mobile / fixed	-25 to +80 °C mobile · -40 to +80 °C fixed	Max. conductor temperature	+90 °C continuous · +250 °C short-circuit
Permissible tensile load	15 N/mm ² of total phase conductor copper cross-section	Min. bending radius	10 × D mobile / trailing · 6 × D fixed installation
Standards	DIN VDE 0250-812 · VDE 0295 / IEC 60228 Class 5 · VDE 0207-20 (3GI3) · VDE 0207-21 (5GM3)	Standard packing	Heavy-duty wooden drums for mine & tunnel deployment

Sizes

17 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	Conductor stranding n × Ø mm	Nominal OD mm	Total weight ≈ kg/km	Min. bend R (mobile) mm	Max. pull (15 N/mm ²) N
4-core power (2.5–240 mm ²) 11 sizes						
☐ TRM-J 4 × 2.5	4 × 2.5	45 × 0.25	17.3	458	173	150
☐ TRM-J 4 × 4	4 × 4	51 × 0.30	18.9	557	189	240
☐ TRM-J 4 × 6	4 × 6	76 × 0.30	20.7	738	207	360
☐ TRM-J 4 × 10	4 × 10	74 × 0.40	24.3	1,065	243	600
☐ TRM-J 4 × 16	4 × 16	116 × 0.40	27.9	1,483	279	960
☐ TRM-J 4 × 25	4 × 25	180 × 0.40	33.2	2,130	332	1,500
☐ TRM-J 4 × 35	4 × 35	254 × 0.40	35.5	2,607	355	2,100
☐ TRM-J 4 × 50	4 × 50	364 × 0.40	42.6	3,536	426	3,000
☐ TRM-J 4 × 70	4 × 70	514 × 0.40	46.8	4,799	468	4,200
☐ TRM-J 4 × 95	4 × 95	684 × 0.40	55.5	6,322	555	5,700
☐ TRM-J 4 × 240	4 × 240	1752 × 0.40	77.7	13,727	777	14,400
Multi-core (7–19 cores) 6 sizes						
☐ TRM-J 7 × 2.5	7 × 2.5	45 × 0.25	21.1	696	211	262
☐ TRM-J 7 × 4	7 × 4	51 × 0.30	24.6	952	246	420
☐ TRM-J 7 × 6	7 × 6	76 × 0.30	26.1	1,438	261	630
☐ TRM-J 12 × 4	12 × 4	51 × 0.30	27.0	1,100	270	720
☐ TRM-J 16 × 1	16 × 1	29 × 0.20	24.0	800	240	240
☐ TRM-J 19 × 4	19 × 4	51 × 0.30	33.2	1,776	332	1,140

– All sizes include a green-yellow protective earth core (-J) plus an overall ≥ 90 % tinned copper braid screen.

Insulation & sheath wall thicknesses

17 sizes

Cores × mm ²	Conductor stranding n × Ø mm	3GI3 insulation wall mm	E14 inner sheath wall mm	5GM3 outer sheath wall mm	Nominal OD mm
4 × 2.5	45 × 0.25	0.9	1.2	2.0	17.3
4 × 4	51 × 0.30	1.0	1.2	2.0	18.9
4 × 6	76 × 0.30	1.0	1.2	2.0	20.7
4 × 10	74 × 0.40	1.2	1.4	2.2	24.3
4 × 16	116 × 0.40	1.2	1.6	2.5	27.9
4 × 25	180 × 0.40	1.4	1.8	3.0	33.2
4 × 35	254 × 0.40	1.4	1.8	3.0	35.5
4 × 50	364 × 0.40	1.6	2.0	3.5	42.6

Cores × mm ²	Conductor stranding n × Ø mm	3G13 insulation wall mm	E14 inner sheath wall mm	5GM3 outer sheath wall mm	Nominal OD mm
4 × 70	514 × 0.40	1.6	2.0	3.5	46.8
4 × 95	684 × 0.40	1.8	2.4	4.0	55.5
4 × 240	1752 × 0.40	2.4	3.2	5.0	77.7
7 × 2.5	45 × 0.25	0.9	1.2	2.0	21.1
7 × 4	51 × 0.30	1.0	1.4	2.2	24.6
7 × 6	76 × 0.30	1.0	1.4	2.2	26.1
12 × 4	51 × 0.30	1.0	1.6	2.0	27.0
16 × 1	29 × 0.20	0.8	1.2	3.0	24.0
19 × 4	51 × 0.30	1.0	1.6	2.5	33.2

– The 0.30 mm tinned copper wire braid is applied between the E14 inner sheath and 5GM3 outer sheath.

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.

WhatsApp / phone

+86 185 9591 3361

Email

info@tebaoflex.com

Web

tebaoflex.com/cables/trm-j-cable



Typical values for this cable type, based on DIN VDE 0250-812. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.