MINING TEXOPRENE™ – TRM

HIGHLY FLEXIBLE MINING CABLE ACCORDING TO VDE0250, NOMINAL VOLTAGE 1000V
IT COMPLIES WITH THE MINERAL ACT NO. 50/1991 AND IT'S REGULATION FOR
MINES AND WORKS NO. 27 OF 1956. Users must observe the Mines Health & Safety Act 29 of 1996

HEAVY TO VERY HEAVY MECHANICAL STRESSES

CA 45

CONSTRUCTION

Conductor of copper, tinned, finely stranded – 3/4G insulation of dielectrical and thermal high quality, ozone resistant, extruded and coloured cores – laid up in a short lay – interstice filling bedding – concentrical copper screen of up to 90% – outer sheath of chlorinated rubber like polychloroprene, oil resistant, flame retardant, uv-stabilised, yellow.

Please Note: Powermite Mining Texoprene is also available with super fine stranding, cradle centre, individual and collective screening (woven or helically applied) in different sheath colours and qualities.

CORE IDENTIFICATION to VDE 0293

Cable description bearing – O without earth core
Cable description bearing – J with green/yellow earth core
Core 1-5, coloured
Core 6 and more, numbered.

APPLICATION:

Mining Texoprene – **TRM** is designed to endure very heavy stresses as required for Mines, Shaftsinking, Harbours, Steelmills, Quarries and Oil Rigs. It is suitable to operate in dry, wet, seawater, explosion proof, cold and warm environments on platforms, welding equipment and mobile plant. It is not designed for Cable reeling drum use (please refer to pages 7,8,9)

For individually screened Mining Cable, see pages 10, 16 and 17

TECHNICAL DATA

1. Max. operating Voltage AC : 690 V / 1150 V
2. Max. operating Voltage DC : 1040 V / 1730 V
3. Test Voltage AC : 3000 V
4. Max. Conductor resistance : to DIN/VDE 0295 Class 5
5. Temperature range : mobile – 25 °C to + 80 °C
   fixed – 40 °C to + 80 °C
6. Current Capacity : see Table 3 page 52 VDE 0100
7. Derating : see Table 3 page 52 VDE 0100
8. Specification : according to VDE 0250
9. Min. bending radius : mobile 5 x cable O.D.
   fixed 4 x cable O.D.
10. Tensile stress : not to exceed 15N/mm² of total powercore cross section
11. Marking : printed or embossed

No. of cores and rated cross section mm²	conductor diameter approx. mm	wall thickness of insulation max. mm	wall thickness of sheath mm	overall diameter approx. mm	weight approx. kg/m	maximum conductor resistance at 20 °C Class 5 Ω /km	*current rating continuous at ambient temp. 25 °C A
4 x 1,5	1,8	0,8	1,6	16,0	0,40	13,7	20
4 x 2,5	2,6	0,9	2,0	19,0	0,50	8,21	27
4 x 4	3,2	1,0	2,0	21,0	0,60	5,09	36
4 x 6	3,9	1,0	2,0	22,0	0,90	3,39	47
4 x 10	5,1	1,2	2,2	24,0	1,20	1,95	65
4 x 16	6,3	1,2	2,5	31,0	1,50	1,24	87
4 x 25	7,8	1,4	3,0	38,0	2,10	0,795	115
4 x 35	9,2	1,4	3,0	40,0	2,85	0,565	143
4 x 50	11,0	1,6	3,5	49,0	3,95	0,393	178
4 x 70	13,1	1,6	3,5	53,5	4,60	0,277	220
4 x 95	15,1	1,8	4,0	58,0	6,30	0,210	265
4 x 120	17,0	1,8	4,0	60,0	7,50	0,164	310
3 x 120/120+	17,0	1,8	4,0	62,0	8,00	0,164	310
7 x 2,5	2,6	0,9	2,0	22,0	0,80	8,21	27
7 x 4	3,2	1,0	2,2	27,0	0,85	5,09	36
7 x 6	3,9	1,0	2,2	31,0	1,25	3,39	47
12 x 2,5	2,6	0,9	2,2	28,0	0,90	8,21	27
12 x 4	3,2	1,0	2,5	31,0	1,30	5,09	36
12 x 6	3,9	1,0	3,0	36,0	1,95	3,39	47
16 x 1	1,5	0,8	3,0	25,0	0,80	20,0	16
19 x 2,5	2,6	0,9	2,5	34,0	1,30	8,21	27
19 x 4	3,2	1,0	2,0	37,0	2,10	5,09	36

Above sizes may require minimum quantities
All quoted data is approximate and not binding

* does not take cable length (voltage drop) into consideration.
\+ Type TRMC-J cable with individually screened power cores and a collective screen overall