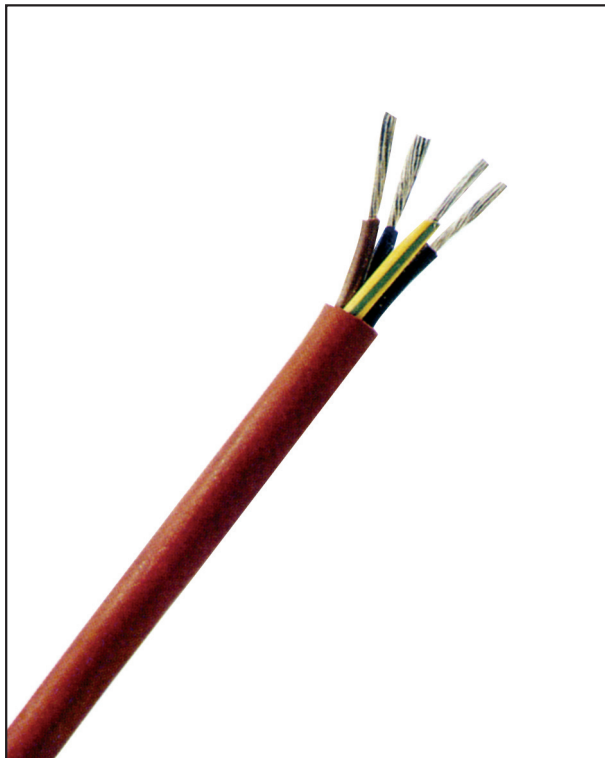
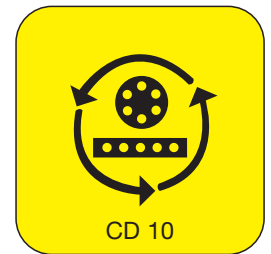


# TEXOSIL<sup>TM</sup> CABLE – TSB

FLEXIBLE SILICONE RUBBER CABLE ACC. TO VDE 0250, OPERATING VOLTAGE 600V

**FOR HIGH AMBIENT TEMPERATURE –  
LOW MECHANICAL STRESS or \*\* for "KK"**



## CONSTRUCTION

Conductor of copper, finely stranded, class 5 – insulation of dielectrical and thermal high quality silicone rubber, extruded and marked – cores laid up – sheathing of ozone and ray resistant silicone rubber which is also water repellent and anti adhesive.

Please Note: Powermite TSB cables are available in different voltages, colours, super fine stranding bare or tinned, high tension ignition insulation, individual and collective braiding with a variety of materials which offer different mechanical properties, i.e. increased tear resistance. (See pages 31-35).

## CORE IDENTIFICATION to VDE 0293

Up to 5 cores : mostly coloured  
6 cores and more : mostly black with white numbers  
Cable description bearing – O without earth core  
Cable description bearing – J with green/yellow earth core

## APPLICATION:

**TSB** cables can be used for wide ranging industrial applications where very hot and cold temperatures have to be accommodated. Silicone's ability not to cling to adhesive surfaces is often needed. This cable finds use in foundries, steel works, saunas, ships and aircrafts, chemical and certain foodstuff factories, mines and other such industries. It is available as power, control and instrumentation cable for use in the wiring of switchgear, sockets, lamps, heaters, electrical machinery or other such gear. If cable is installed in tubes it must be ensured that tube ends are open and properly ventilated, otherwise mechanical properties are reduced.

**\*\*The "KK" quality can provide an increased tear resistance on cores and/or sheath. (please specify)**

For chemical resistance table refer to page 57 table 12

Cables and wires for a temp.range of up to +1550 °C on request, see page 40

## TECHNICAL DATA

1. Max. operating Voltage AC	: 360 V/600 V	7. Insulation	: low smoke emission, no flame propagation, no corrosive gases
2. Max. operating Voltage DC	: 540 V/900 V	7a. Zero Halogen	: acc. to VDE 0472 Part 815
3. Test Voltage AC	: 2000 V	8. Specification	: according to VDE 0250, conforms where applicable to SABS 1574 & 1411
4. Conductor resistance	: to VDE 0295 Class 5	9. Min. bending radius	: mobile 15 x cable O.D. fixed 8 x cable O.D.
5. Temperature range	: mobile – 25 °C to + 180 °C fixed – 50 °C to + 250 °C + +radiating heat at intervals	10. Tensile stress	: not to exceed 15N/mm <sup>2</sup>
6. Current Capacity	: see Table 3 page 52, for increased ambient temperature		

No. of cores and rated cross section	max. diameter of single strands	max. outer dimension	weight approx.	No. of cores and rated cross section	max. diameter of single strands	max. outer dimension	weight approx.
mm <sup>2</sup>	mm	mm	kg/km	mm <sup>2</sup>	mm	mm	kg/km
<b>TSB-O (specify colour)*</b>				<b>TSB-O (specify colour)*</b>			
1 x 0,50	0,21	2,1	7,9	1 x 25,0	0,41	10,3	292,2
1 x 0,75	0,21	2,2	11,0	1 x 35,0	0,41	11,6	392,0
1 x 1,0	0,21	2,3	13,6	1 x 50,0	0,41	13,9	562,0
1 x 1,5	0,26	2,7	20,3	1 x 70,0	0,41	16,0	762,0
1 x 2,5	0,26	3,4	32,4	1 x 95,0	0,509	18,5	1042,0
1 x 4,0	0,31	4,0	48,7	1 x 120,0	0,509	20,0	1297,0
1 x 6,0	0,31	4,6	70,1	1 x 150,0	0,509	23,0	1612,0
1 x 10,0	0,41	7,0	124,0	1 x 185,0	0,509	24,5	1980,0
1 x 16,0	0,41	8,8	188,0	1 x 240,0	0,509	27,0	2560,0
				1 x 300,0	0,509	30,0	3200,0

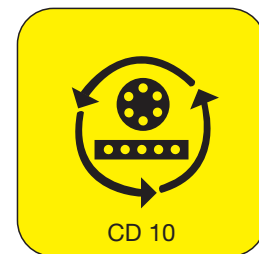
\*Please specify your core colour requirement by stating  
01 – red, 02 – black, 03 – blue, 28 – green/yellow, 05 – yellow, 06 – white

Sizes, cores and designs not stated here are available on request.

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

# TEXOSIL<sup>TM</sup> CABLE – TSB

FLEXIBLE SILICONE RUBBER CABLE ACC. TO VDE 0250, OPERATING VOLTAGE 600V



**FOR HIGH AMBIENT TEMPERATURE –  
LOW MECHANICAL STRESS or \*\* for “KK”**

No. of cores and rated cross section	max. diameter of single strands	max. outer dimension	weight approx.	No. of cores and rated cross section	max. diameter of single strands	max. outer dimension	weight approx.
mm <sup>2</sup>	mm	mm	kg/km	mm <sup>2</sup>	mm	mm	kg/km
<b>TSB-J</b>				<b>TSB-J</b>			
3 x 0,75	0,21	6,5	61,0	12 x 1,5	0,26	14,7	327,0
3 x 1,5	0,26	8,0	101,0	12 x 2,5	0,26	17,6	508,0
3 x 2,5	0,26	9,5	153,0	18 x 0,5	0,21	12,0	197,0
3 x 4,0	0,31	11,5	225,0	18 x 0,75	0,21	13,7	268,0
3 x 6,0	0,31	13,0	312,0	18 x 1,5	0,26	17,5	478,0
3 x 10,0	0,41	18,0	562,0	18 x 2,5	0,26	21,0	732,0
3 x 16,0	0,41	21,0	803,0	24 x 0,5	0,21	14,4	260,0
3 x 25,0	0,41	26,0	1246,0	24 x 0,75	0,21	16,4	352,0
3 x 35,0	0,41	29,0	1615,0	24 x 1,5	0,26	21,0	628,0
4 x 0,75	0,21	7,0	73,0	24 x 2,5	0,26	25,8	1003,0
4 x 1,5	0,26	9,0	128,0				
4 x 2,5	0,26	11,0	198,0				
4 x 4,0	0,31	12,5	278,0				
4 x 6,0	0,31	14,5	388,0				
4 x 10,0	0,41	20,5	705,0				
4 x 16,0	0,41	23,5	1023,0				
4 x 25,0	0,41	28,8	1557,0				
4 x 35,0	0,41	31,5	2030,0				
7 x 1,5	0,26	11,0	202,0				
7 x 2,5	0,26	13,5	313,0				
7 x 4,0	0,31	15,3	445,0				
7 x 6,0	0,31	18,0	632,0				
7 x 10,0	0,41	25,5	1159,0				
7 x 16,0	0,41	28,5	1662,0				

If you require cables without green/yellow earth core, type changes to TSB-O

Sizes, cores and designs not mentioned here are available on request.

\*\* The “KK” quality can indicate increased tear resistance on cores and sheath. – see page 29