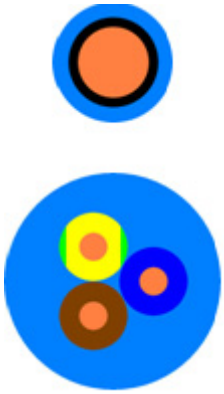
Submersible pump cable
TML round type B 0.6/1kV

Submersible pump cable TML...x...sqmm type B (application in potable water)



Application

For the permanent use in potable water, connecting electrical apparatus, e.g. submersible pumps up to temperature of 70°C and up to 400m immersion depth.

Reference standard

National		International	
DIN VDE 0250	corresponding parts	generally to IEC 60245	
DIN VDE 0282	part 1	generally to IEC 60245	
DIN VDE 0282	part 2		
DIN VDE 0282	part 16		
DIN EN 60228		IEC 60228	
DIN VDE 0298	part 300		
DIN VDE 0472	corresponding parts		
DIN VDE 0473	corresponding parts	IEC 60811	corresponding parts

Construction

Conductor
plain annealed copper, flexible class 5 acc. to DIN EN 60228

Separator
optional

Insulation
extruded rubber compound EI6 acc. to DIN VDE 0282 part 1

Colour code
acc. to DIN VDE 0293-308:

1 core:	black
3 core:	brown, black, grey (without ground)
	green / yellow, blue, brown (with ground)
4 core:	blue, brown, black, grey (without ground)
	green / yellow, brown, black, grey (with ground)

Filler element
central dummy where necessary

Outer sheath
extruded rubber compound EM6 acc. to DIN VDE 0282 part 1

Colour
Blue

Identification
Printing: e.g. TML-B 3 x 1,5 sqmm + manufacturers identification thread

Application properties

Conductor temperature
max. +90°C in operation
max. +250°C short circuit

Temperature range for operation
-40°C up to +70°C fixed
-25°C up to +70°C in motion

Resistance to water
DIN VDE 0282 part 16

Compatibility to drinking water
ACS and KTW

Minimum bending radius
Diameter of the cable in mm:

	≤8	≤12	>12
Fixed:	3xD	3xD	4xD
In motion:	3xD	4xD	5xD

D: Height of the flat cable

Electrical characteristics at 20°C

	Unit										
Conductor size	sqmm	nom.	1.5	2.5	4	6	10	16	25	35	50
Conductor resistance	Ω/km	max.	13.3	7.98	4.95	3.30	1.91	1.21	0.780	0.554	0.386
Test voltage	V	U_{rms}	3000								
Rated voltage	V	U_0/U	600 / 1000								

Geometrical Data

Number and size sqmm	Insulation nominal in mm	Outer sheath nominal in mm	Outer dimension approx. in mm	Weight approx. in kg/km
1 x 1.5	0.8	1.4	6.0	50
1 x 2.5	0.9	1.4	6.6	65
1 x 4	1.0	1.5	7.5	90
1 x 6	1.0	1.6	8.3	120
1 x 10	1.2	1.8	10.1	185
1 x 16	1.2	1.9	11.3	255
1 x 25	1.4	2.0	13.5	365
1 x 35	1.4	2.2	15.2	490
1 x 50	1.6	2.4	17.5	690
1 x 70	1.6	2.6	20.3	920
1 x 95	1.8	2.8	22.7	1210
1 x 120	1.8	3.0	24.5	1455
1 x 150	2.0	3.2	28.0	1825
1 x 185	2.2	3.4	30.0	2160
3 x 1.5	0.8	1.6	9.7	135
3 x 2.5	0.9	1.8	11.4	210
3 x 4	1.0	1.9	13.0	280
3 x 6	1.0	2.1	14.5	370
3 x 10	1.2	3.3	20.0	650
3 x 16	1.2	3.5	24.0	940
3 x 25	1.4	3.8	27.7	1320
3 x 35	1.4	4.1	31.0	1730
3 x 50	1.6	4.5	36.0	2440
4 G 1.5	0.8	1.7	10.7	165
4 G 2.5	0.9	1.9	12.6	235
4 G 4	1.0	2.0	14.4	335
4 G 6	1.0	2.3	16.2	460
4 G 10	1.2	3.4	21.9	800
4 G 16	1.2	3.6	26.2	1165
4 G 25	1.4	4.1	30.2	1650
4 G 35	1.4	4.4	34.5	2200
4 G 50	1.6	4.8	41.4	3260