



TML Cable - Type A for Process Water, Type B Drinking Water



Product application :

As connection cable for submersible electric motors (pumps) for the permanent use in process and drinking water up to a temperature of 70°C. In addition DIN VDE 0298 T.300 has to be respected.

Product characteristic:

Construction:

- Fine stranded bare copper conductor
- EPR insulation
- EPR outer sheath

Technical:

Characteristics at 20°C:

- Rated voltage : 600/1000V
- Maximum admissible operating voltage:
 - in 1 ph and 3 ph systems : 720 / 1200V
 - in D C systems : 1800 V
- conductor resistance to DIN / VDE 0295
- Test voltage 50Hz, 5 min : 2500 V

Temperature range:

- Maximum admissible conductor temperature in operation 90°C
- Short circuit temperature 250°C
- Fixed : -40°C up to + 80°C In motion : -25°C up to + 80°C
- Tensile stress : maximum 15 N each sqmm conductor cross section



High Temperature Special Cables

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Properties:

- Adapted to DIN VDE 0250 and DIN VDE 0282
- Excellent insulation properties in water
- Very low water absorption
- Preservation of the mechanical strength
- BAM* certificate VI.31/10904/01 - confirming the suitability of TML type B in drinking water.

Product specification:

AWG	No. of Cores	Conductor cross section mm ²	O .D. mm		Gross Copper weight kg/km	Gross Weight kg/km
			Min	Max.		
16	1	1.5	5.8	7.2	14.4	54
14	1	2.5	6.4	8	24	76
12	1	4	7.4	9	38	105
10	1	6	8	11	58	135
8	1	10	9.8	12.5	96	200
6	1	16	11	14.5	154	290
4	1	25	12.5	16.5	240	410
2	1	35	14	18.5	336	560
1	1	50	16.5	21	480	740
2/0	1	70	18.5	23.5	672	1000
3/0	1	95	21	26	912	1300
4/0	1	120	23.5	28.5	1152	1650
300kcmil	1	150	26	31.5	1440	2000
350kcmil	1	185	27.5	34.5	1776	2500
-	1	240	30.5	38	2304	3100
-	1	300	33.5	41.5	2880	3700
16	2	1.5	9	11.5	29	130
14	2	2.5	10.5	13.5	48	190
12	2	4	12	15	77	260
10	2	6	13.5	18.5	115	350
8	2	10	18.5	24	192	550
6	2	16	21	27.5	307	900
4	2	25	25	31.5	480	1300



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AWG	No. of Cores	Conductor cross section mm ²	O .D. mm		Gross Copper weight kg/km	Gross Weight kg/km
			Min	Max.		
16	3	1.5	9.6	12.5	43	150
14	3	2.5	11.5	14.5	72	220
12	3	4	13	16	115	340
10	3	6	14.5	20	173	480
8	3	10	20	25.5	288	750
6	3	16	22.5	29.5	461	1100
4	3	25	26.5	34	720	1450
2	3	35	29.5	38	1008	2100
1	3	50	34.5	44	1440	2800
2/0	3	70	39	49.5	2016	3800
3/0	3	95	44	54.6	2736	4600
4/0	3	120	47.5	59	3456	5400
16	4	1.5	10.5	13.5	58	190
14	4	2.5	12.5	15.5	96	280
12	4	4	14.5	18	154	390
10	4	6	16.5	22	230	520
8	4	10	22.5	24.5	384	950
6	4	16	26.5	28.5	614	1400
4	4	25	32	34	960	1950
2	4	35	33	42.5	1344	2700
1	4	50	38	48.5	1920	3600
2/0	4	70	43	54.5	2688	4900
3/0	4	95	50	60.5	3648	6200
4/0	4	120	53	65.5	4608	7200
16	5	1.5	11.5	15	72	230
14	5	2.5	13.5	17	120	340
12	5	4	16	19.5	192	470
10	5	6	18	24.5	288	640
8	5	10	24	30.5	480	1150
6	5	16	27	35.5	768	1700