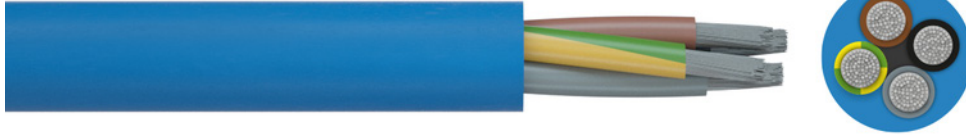


# Submersible pump cable TML



**Application:** For permanent use in drinking water and for connecting electrical equipment up to temperatures of 80 °C and a depth of 800 m. The pipe is resistant to domestic and saltwater.

## Construction and technical data:

<b>Conductor material:</b>	tinned copper
<b>Conductor construction:</b>	Class 5 = flexible
<b>Insulation:</b>	rubber
<b>Sheathing material:</b>	rubber
<b>Colour of outer sheath:</b>	blue
<b>Water-resistant:</b>	AD8
<b>For outdoor use:</b>	yes
<b>Max. temperature at conductor, °C:</b>	90 °C
<b>Max. short circuit temperature at conductor, °C:</b>	250 °C
<b>°C:</b>	
<b>Permitted outer cable temperature, fixed, °C:</b>	-25 - +80 °C
<b>Permitted outer cable temperature, moved, °C:</b>	-25 - +80 °C
<b>Bending radius, fixed installation:</b>	3 x Ø
<b>Bending radius, moving application:</b>	5 x Ø



*The products and information presented here are for technical calculation only. They are subject to technical progress and in no way represent the ability of shipment. Outer diameters are approximately.*

Submersible pump cable (-J) round**Nominal voltage U<sub>o</sub>:** 0.6 kV**Nominal voltage U:** 1 kV**Maximum permitted operating voltage in** 1.2 kV**three-phase systems:****Test voltage:** 4 kV**Protective conductor:** yes**Core identification:** colours acc. to VDE 0293 (HD 308);

more than 5 cores: gn-ye + numbers

part no.	part name	DI [mm]	RI [Ohm/km]	Wi [mm]	Ibl [A]	Ø [mm]	Fzv [N]	Cu	G [kg]
051573	03X1	1.3	20	0.8	15	8.9	45	29	90
050562	03X1.5	1.5	13.7	0.8	23	9.3	67	43	100
050501	03X2.5	2	8.21	0.9	32	10.9	112	72	160
051056	03X4	2.4	5.09	1	42	12.3	180	115.2	220
051057	03X6	3	3.39	1	54	14	270	173	300
051058	03X10	3.9	1.95	1.2	75	16.8	450	288	460
051059	03X16	4.9	1.24	1.2	100	19.1	720	461	650
051060	03X25	6.2	0.795	1.4	127	23.8	1125	720	980
051061	03X35	7.3	0.565	1.4	158	26.7	1575	1008	1310
051062	03X50	9	0.393	1.6	192	31.3	2250	1440	1880
051063	03X70	10.7	0.277	1.6	246	35.9	3150	2016	2590
051064	03X95	12.4	0.21	1.8	298	48.6	4275	2736	4174
050499	04X1.5	1.5	13.7	0.8	23	10.5	90	58	130
050502	04X2.5	2	8.21	0.9	32	12.3	150	96	200
050503	04X4	2.4	5.09	1	42	13.9	240	154	280
050549	04X6	3	3.39	1	54	15.7	360	230	390
050550	04X10	3.9	1.95	1.2	75	18.7	600	384	600
050504	04X16	4.9	1.24	1.2	100	21.2	960	614	840
050551	04X25	6.2	0.795	1.4	127	26.5	1500	960	1280
050753	04X35	7.3	0.565	1.4	158	29.4	2100	1344	1700
050653	04X50	9	0.393	1.6	192	34.8	3000	1920	2450
050754	04X70	10.7	0.277	1.6	246	39.9	4200	2688	3370
050993	04X95	12.4	0.21	1.8	298	45.9	5700	3648	4430
051093	04X120	14.3	0.164	1.8	346	50.7	7200	4608	5260
051594	05X1	1.5	20	0.8	15	9.3	75	48	110
051311	07X1.5	1.5	13.7	0.8	23	16.3	157	101	260
051404	07X4	2.4	5.09	1	42	21.4	420	269	500
051312	12X1.5	1.5	13.7	0.8	23	17.5	270	173	380
051171	07X2.5	2	8.21	0.9	32	19.1	262	168	380
051313	12X2.5	2	8.21	0.9	32	22.7	450	288	580

## Submersible pump cable (-O) round

<b>Nominal voltage U<sub>o</sub>:</b>	0.6 kV
<b>Nominal voltage U:</b>	1 kV
<b>Maximum permitted operating voltage in three-phase systems:</b>	1.2 kV
<b>Test voltage:</b>	4 kV
<b>Protective conductor:</b>	no
<b>Core identification:</b>	colours acc. to HD 308; more than 5 cores: numbers

part no.	part name	DI [mm]	RI [Ohm/km]	Wi [mm]	I <sub>bl</sub> [A]	Ø [mm]	F <sub>zv</sub> [N]	Cu	G [kg]
050498	01X1.5	1.5	13.7	0.8	24	5.8	21	14.4	35
050961	01X25	6.2	0.795	1.4	141	11.9	375	240	290
050903	01X50	9	0.393	1.6	216	15.5	750	480	560
050910	01X70	10.7	0.277	1.6	279	17.8	1050	672	780
050624	01X95	12.4	0.21	1.8	342	20.1	1425	912	1010
051154	01X120	14.3	0.164	1.8	400	22.6	1800	1152	1290
051155	01X150	15.6	0.132	2	464	27.9	2250	1440	1750
050928	01X185	17.1	0.106	2.2	533	30.3	2775	1776	2140
050929	01X240	19.6	0.0817	2.4	634	30.5	3600	2304	2550
051055	02X1	1.3	20	0.8	15	9.1	30	19.2	93

DI	diameter conductor
RI	Conductor resistance
Wi	Insulation wall thickness
I <sub>bl</sub>	Ampacity in air (30 °C)
Ø	outer diameter approx.
F <sub>zv</sub>	Tensile strength (during installation)
Cu	Copper weight (GER)
G	net weight per 1000