

Tauchflex-R 750 V, blue, submersible-pump cable



Technical data

- Special cables corresponding adapted to DIN VDE 0250/DIN VDE 0285-525-2-21/DIN EN 50525-2-21
- **Temperature range** (max. temperature for the outer surface) -40°C to +80°C
- **Temperature limit in water:** max. +40°C, max. +60°C with limited duration of life
- **Temperature limit in air:** flexible -25°C to +80°C fixed installation -40°C to +80°C
- Permissible **operating temperature** at conductor +90°C
- **Nominal voltage** U_0/U 450/750 V
- **Operating voltage** at alternating and three-phase currents U_0/U 413/825 V at direct currents U_0/U 619/1238 V
- **Test voltage** 2,5 kV, 15 min
- Max. permitted **tensile stress** per mm² conductor 15 N
- **Minimum bending radius flexing** up to 8 mm cable Ø: 3x cable Ø > 8-12 mm cable Ø: 4x cable Ø > 12 mm cable Ø: 5x cable Ø
- **fixed installation** up to 12 mm cable Ø: 3x cable Ø > 12 mm cable Ø: 4x cable Ø

Cable structure

- Bare copper-conductor, to DIN VDE 0295 cl.5, fine-wire, BS 6360 cl.5, IEC 60228 cl.5
- Core insulation to EPR
- Core identification to DIN VDE 0293
- GN-YE conductor, 3 cores and above
- Cores stranded in layers with optimal lay-length
- Outer sheath of special EPR
- Sheath colour blue

Properties

- Good insulation properties when submerged in water
- Minimal weight gain under water
- The mechanical stability of the insulation materials remains constant even when submerged
- As rotor-connection cable for motors up to 1000 V with protected fixed installation in tubes.

Note

- G = with green-yellow conductor
- x = without green-yellow conductor
- AWG sizes are approximate equivalent values. The actual cross-section is in mm².

Application

Tauchflex-R is a special cable for use as a connecting and control cable for submersible motor pumps, underwater floodlights, floating switch and has proven its worth for constant use in drinking water, process water and service water up to an immersion depth of 300 m.

Tauchflex-R can also be installed for use in dry, damp and humid areas as well as in the open air. Not suitable for the installation in hazardous areas.

CE = The product is conformed with the EC Low-Voltage Directive 2006/95/EC.

Part no.	No.cores x cross-sec. mm ²	Outer Ø approx. mm	Cop. weight kg / km	Weight approx. kg / km	AWG-No.
37100	1 x 1,5	6,0	14,0	54,0	16
37101	1 x 2,5	6,7	24,0	76,0	14
37102	1 x 4	7,2	38,0	105,0	12
37103	1 x 6	7,9	58,0	135,0	10
37104	1 x 10	9,5	96,0	200,0	8
37105	1 x 16	11,5	154,0	290,0	6
37106	1 x 25	13,5	240,0	400,0	4
37107	1 x 35	15,0	336,0	560,0	2
37108	1 x 50	17,5	480,0	730,0	1
37109	1 x 70	20,0	672,0	1000,0	2/0
37110	1 x 95	22,5	912,0	1250,0	3/0
37111	1 x 120	24,0	1152,0	1650,0	4/0
37112	1 x 150	25,2	1440,0	2000,0	300 kcmil
37113	1 x 185	27,6	1776,0	2460,0	350 kcmil
37114	1 x 240	30,6	2304,0	3050,0	500 kcmil
37115	1 x 300	33,5	2880,0	3700,0	600 kcmil
37116	2 x 1,5	8,5	29,0	130,0	16
37117	2 x 2,5	10,2	48,0	190,0	14
37118	2 x 4	11,8	77,0	260,0	12
37119	2 x 6	13,1	115,0	350,0	10
37120	2 x 10	17,7	192,0	550,0	8
37121	2 x 16	20,2	307,0	900,0	6
37122	2 x 25	24,3	480,0	1300,0	4
37123	3 G 1,5	9,5	43,0	150,0	16
37124	3 G 2,5	11,0	72,0	205,0	14
37125	3 G 4	13,0	115,0	330,0	12
37126	3 G 6	14,5	173,0	470,0	10

Part no.	No.cores x cross-sec. mm ²	Outer Ø approx. mm	Cop. weight kg / km	Weight approx. kg / km	AWG-No.
37127	3 G 10	19,0	288,0	750,0	8
37128	3 G 16	23,5	461,0	1110,0	6
37129	3 G 25	28,5	720,0	1450,0	4
37130	3 G 35	32,0	1008,0	2150,0	2
37131	3 G 50	37,0	1440,0	2800,0	1
37132	3 G 70	42,0	2016,0	3750,0	2/0
37133	3 G 95	43,3	2736,0	4590,0	3/0
37134	3 G 120	49,0	3456,0	5400,0	4/0
37135	4 G 1,5	10,7	58,0	190,0	16
37136	4 G 2,5	12,3	96,0	270,0	14
37137	4 G 4	14,0	154,0	380,0	12
37138	4 G 6	15,5	230,0	520,0	10
37139	4 G 10	21,0	384,0	955,0	8
37140	4 G 16	25,5	614,0	1400,0	6
37141	4 G 25	31,0	960,0	1950,0	4
37142	4 G 35	35,0	1344,0	2650,0	2
37143	4 G 50	41,0	1920,0	3600,0	1
37144	4 G 70	46,5	2688,0	4890,0	2/0
37145	4 G 95	51,6	3648,0	6180,0	3/0
37146	4 G 120	56,1	4608,0	7200,0	4/0
37147	5 G 1,5	11,2	72,0	225,0	16
37148	5 G 2,5	13,3	120,0	335,0	14
37149	5 G 4	15,6	192,0	470,0	12
37150	5 G 6	17,5	288,0	645,0	10
37151	5 G 10	22,9	480,0	1150,0	8
37152	5 G 16	26,4	768,0	1690,0	6
37153	5 G 25	32,0	1200,0	2400,0	4

Dimensions and specifications may be changed without prior notice. (RI01)