

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



Technical data

- Special cables corresponding to DIN VDE 0250 and 0282 part 810
- **Temperature range** -40 °C to +80 °C (max. temperature for the outer surface)
- Permissible **operating temperature** at conductor +90C
- **Nominal voltage** U_0/U 450/750 V
- **Operating voltage** for alternating and three-phase currents U_0/U 413/825 V, for direct currents U_0/U 619/1238 V
- **Current rating** to DIN 57100 part 523/ VDE 0100 part 523
- **Test voltage** 15 min 2,5 kV
- Max. permitted **tensile stress** per mm² conductor 15 N

Cable structure

- Bare copper, fine wire conductors, bunch stranded to DIN VDE 0295 cl. 5, BS 6360 cl. 5 and IEC 60228 cl. 5
- Foil as separator
- EPR core insulation, compound type 3GI3 to DIN VDE 0207 part 20
- Colour code according to DIN VDE 0293
- Cores stranded in layers with optimal lay-length
- EPR outer sheath, blue, compound type 5GM3 adapted to DIN VDE 0207 part 21
- **Minimum bending radius flexing** up to 8 mm cond. \emptyset min. 3x cond. \emptyset above 8 mm to 12 mm cond. \emptyset min. 4x cond. \emptyset above 12 mm cond. \emptyset min. 5x cond. \emptyset
- **fixed installation** up to 12 mm cond. \emptyset min. 3x cond. \emptyset above 12 mm cond. \emptyset min. 4x cond. \emptyset
- **Temperature limit in water:** max. +40 °C, max. +60 °C with limited duration of life
- **in air:** flexible -50 °C to +80 °C stationary -30 °C to +80 °C

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
- **Not suitable for drinking water.**
- Cables for use in drinking water with BAM-certificate on request (BAM Bundesanstalt für Materialprüfung/Federal Institute for Materials Testing).
- Installation adaptability for machinery material of protection class II
- As rotor-connection cable for motors up to 1000 V with protected fixed installation in tubes.

Note

- G = with green-yellow earth core; x = without green-yellow earth core.
- AWG sizes are approximate equivalent values. The actual cross-section is in mm².
- **Please note:** halogen-free types available on request.

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 waste water or water for general use up to the depth of immersion of 500 m (50 bar) and under temperatures of up to 70 °C.

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/EG.

Part no.	No. cores x cross-sec. mm ²	Outer Ø approx. mm	Cop. weight kg / km	Weight approx. kg / km	AWG-No.	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	7,2	14,0	54,0	16	37127	3 x 10	19,0	288,0	750,0	8
37101	1 x 2,5	8,0	24,0	76,0	14	37128	3 x 16	23,5	461,0	1110,0	6
37102	1 x 4	7,2	38,0	105,0	12	37129	3 x 25	28,5	720,0	1450,0	4
37103	1 x 6	7,9	58,0	135,0	10	37130	3 x 35	32,0	1008,0	2150,0	2
37104	1 x 10	9,5	96,0	200,0	8	37131	3 x 50	37,0	1440,0	2800,0	1
37105	1 x 16	11,5	154,0	290,0	6	37132	3 x 70	42,0	2016,0	3750,0	2/0
37106	1 x 25	13,5	240,0	400,0	4	37133	3 x 95	43,3	2736,0	4590,0	3/0
37107	1 x 35	15,0	336,0	560,0	2	37134	3 x 120	59,0	3456,0	5400,0	4/0
37108	1 x 50	17,5	480,0	730,0	1	37135	4 G 1,5	13,4	58,0	190,0	16
37109	1 x 70	20,0	672,0	1000,0	2/0	37136	4 G 2,5	15,4	96,0	270,0	14
37110	1 x 95	22,5	912,0	1250,0	3/0	37137	4 G 4	14,0	154,0	380,0	12
37111	1 x 120	24,0	1152,0	1650,0	4/0	37138	4 G 6	15,5	230,0	520,0	10
37112	1 x 150	25,2	1440,0	2000,0	300 kcmil	37139	4 G 10	21,0	384,0	955,0	8
37113	1 x 185	27,6	1776,0	2460,0	350 kcmil	37140	4 G 16	25,5	614,0	1400,0	6
37114	1 x 240	30,6	2304,0	3050,0	500 kcmil	37141	4 G 25	31,0	960,0	1950,0	4
37115	1 x 300	33,5	2880,0	3700,0	600 kcmil	37142	4 G 35	35,0	1344,0	2650,0	2
37116	2 x 1,5	8,5	29,0	130,0	16	37143	4 G 50	41,0	1920,0	3600,0	1
37117	2 x 2,5	10,2	48,0	190,0	14	37144	4 G 70	46,5	2688,0	4890,0	2/0
37118	2 x 4	11,8	77,0	260,0	12	37145	4 G 95	51,6	3648,0	6180,0	3/0
37119	2 x 6	13,1	115,0	350,0	10	37146	4 G 120	56,1	4608,0	7200,0	4/0
37120	2 x 10	17,7	192,0	550,0	8	37147	5 G 1,5	11,2	72,0	225,0	16
37121	2 x 16	20,2	307,0	900,0	6	37148	5 G 2,5	13,3	120,0	335,0	14
37122	2 x 25	24,3	480,0	1300,0	4	37149	5 G 4	15,6	192,0	470,0	12
37123	3 x 1,5	9,5	43,0	150,0	16	37150	5 G 6	17,5	288,0	645,0	10
37124	3 x 2,5	11,0	72,0	205,0	14	37151	5 G 10	22,9	480,0	1150,0	8
37125	3 x 4	13,0	115,0	330,0	12	37152	5 G 16	26,4	768,0	1690,0	6
37126	3 x 6	14,5	173,0	470,0	10	37153	5 G 25	32,0	1200,0	2400,0	4

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