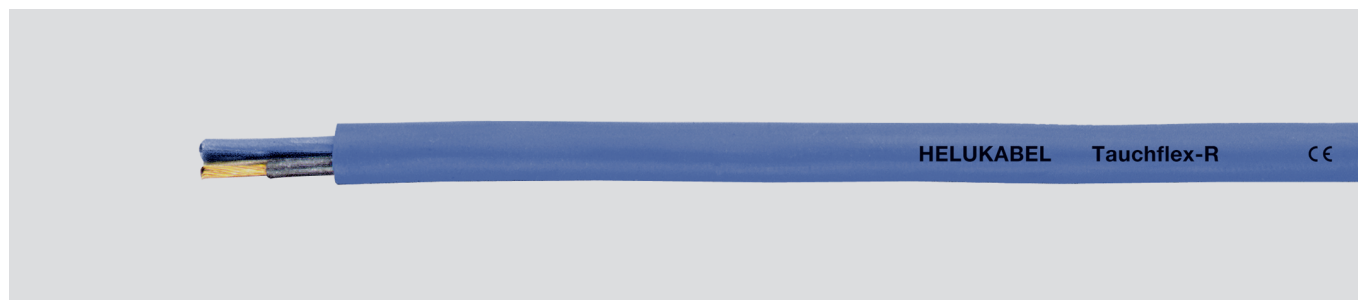


# Tauchflex-R

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
- Max. permissible **operating voltage**
  - 3-Phase and single phase operation 413/825 V
  - DC operation 619/1238 V
- **Test voltage** 2,5 kV, 15 min
- Max. permitted **tensile stress** per mm<sup>2</sup> 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 GN-YE conductor
- x = without GN-YE conductor
- AWG sizes are approximate equivalent values. The actual cross section is in mm<sup>2</sup>.

## 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 = Product conforms with Low-Voltage Directive 2014/35/EU.

Part no.	No. cores x cross-sec. mm <sup>2</sup>	Outer Ø app. mm	Cop. factor per km	Weight app. kg / km	AWG-No.	Part no.	No. cores x cross-sec. mm <sup>2</sup>	Outer Ø app. mm	Cop. factor per km	Weight app. kg / km	AWG-No.
37100	1 x 1,5	6,0	14,0	54,0	16	37127	3 G 10	19,0	288,0	750,0	8
37101	1 x 2,5	6,7	24,0	76,0	14	37128	3 G 16	23,5	461,0	1110,0	6
37102	1 x 4	7,2	38,0	105,0	12	37129	3 G 25	28,5	720,0	1450,0	4
37103	1 x 6	7,9	58,0	135,0	10	37130	3 G 35	32,0	1008,0	2150,0	2
37104	1 x 10	9,5	96,0	200,0	8	37131	3 G 50	37,0	1440,0	2800,0	1
37105	1 x 16	11,5	154,0	290,0	6	37132	3 G 70	42,0	2016,0	3750,0	2/0
37106	1 x 25	13,5	240,0	400,0	4	37133	3 G 95	43,3	2736,0	4590,0	3/0
37107	1 x 35	15,0	336,0	560,0	2	37134	3 G 120	49,0	3456,0	5400,0	4/0
37108	1 x 50	17,5	480,0	730,0	1	37135	4 G 1,5	10,7	58,0	190,0	16
37109	1 x 70	20,0	672,0	1000,0	2/0	37136	4 G 2,5	12,3	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 G 1,5	9,5	43,0	150,0	16	37150	5 G 6	17,5	288,0	645,0	10
37124	3 G 2,5	11,0	72,0	205,0	14	37151	5 G 10	22,9	480,0	1150,0	8
37125	3 G 4	13,0	115,0	330,0	12	37152	5 G 16	26,4	768,0	1690,0	6
37126	3 G 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)