

FLEX-H POWER

0.6/1kV black

**Technical Data:**

- **Conductor material** Copper
- **Conductor Class** Class 5
- **Core Insulation** Special halogen free compound
- **Core identification** DIN VDE 0293: Black cores with white numerals
- **Stranding** Cores twisted in layers
- **Outer sheath** Special halogen free compound, self-extinguishing, flame retardant
- **Sheath colour** Black RAL 9005
- **Rated voltage [V]** 600/1000
- **Testing voltage [V]** 4000
- **Conductor resistance** <math>< 13.7 \text{ M}\Omega \times \text{km}</math>
- **Insulation resistance** >math>20 \text{ M}\Omega \times \text{km}</math>
- **Current carrying capacity** DIN VDE (see technical guidelines)
- **Min. bending radius fixed [xd]** 8xd
- **Min. bending radius moved [xd]** 12xd
- **Working temp fixed min/max [C]** -40°C up to +80°C
- **Working temp moved min/max [C]** -15°C up to +70°C
- **Temp at conductor max.** +70°C in operation, +160°C in case of short-circuit
- **Burning behaviour** EN 60332-1, IEC 60332-3, EN 60332-3
- **Approvals** Oil resistant: EN 60811-2-1

Construction:

- fine strands of bare copper conductor
- stranding acc. to EN 60228, class 5
- black cores with white numbers
- outer sheath of special halogen free compound, fire and oil resistant, resistant of UV - radiation
- sheath colour: black RAL 9005

Application:

Flex-H POWER can be installed in all electrical systems in dry and damp interiors, especially in industrial environments, and can also be used outside; underwater installation is not permitted. Not suitable for constant moving.

Flex-H POWER is suitable as measuring, monitoring and control cable in the machine tool and plant engineering, in heat and air conditioning systems and refrigeration plants, etc.

Part Number	No of cores x Cross section	Outer Ø ca. mm	Copper weight kg /100	Weight 100 kg/100
1002020050	2 x 0.5	7.8	0.96	8.5
100203000	3 G 0.5	8.2	1.44	9.5
1002040050	4 G 0.5	8.9	1.92	11.1
1002050050	5 G 0.5	9.5	2.4	12.8
1002070050	7 G 0.5	10.2	3.36	15.2
1002120050	12 G 0.5	12.8	5.76	22.8
1002180050	18 G 0.5	14.8	8.64	30.8
1002020075	2 x 0.75	8.3	1.44	9.5
1002030075	3 G 0.75	8.7	2.16	11
1002040075	4 G 0.75	9.1	2.88	12.9
1002050075	5 G 0.75	9.6	3.6	14.8
1002070075	7 G 0.75	10.3	5.04	17.6
1002120075	12 G 0.75	13.1	8.64	26.9
1002180075	18 G 0.75	15.1	12.96	36.7
10020100	2 x 1	8.6	1.92	10.4
1002030100	3 G 1	9.1	2.88	12.2
1002040100	4 G 1	9.7	3.84	14.3
1002050100	5 G 1	10.3	4.8	16.6
1002070100	7 G 1	11.1	6.72	19.8
1002120100	12 G 1	13.5	11.52	30.5
1002180100	18 G 1	16.1	17.28	42.2
1002020150	2 x 1.5	9.1	2.88	12.9
1002030150	3 G 1.5	9.7	4.32	15
1002040150	4 G 1.5	10.4	5.76	17.8
1002050150	5 G 1.5	11.1	7.2	20.9
1002070150	7 G 1.5	12.0	10.08	25.2
1002120150	12 G 1.5	14.7	17.28	39.3
1002180150	18 G 1.5	17.4	25.92	55

Part Number	No of cores x Cross section	Outer Ø ca. mm	Copper weight kg /100	Weight 100 kg/100
1002030250	3 G 2.5	11.1	7.2	19.5
1002040250	4 G 2.5	12.2	9.6	23.7
1002050250	5 G 2.5	13.1	12	28.1
1002070250	7 G 2.5	14.2	16.8	34.3
1002120250	12 G 2.5	18.4	28.8	54.2
1002180250	18 G 2.5	21.6	43.2	76.7
1002020250	2 x 2.5	10.6	4.8	16.4
1002020400	2 x 4	12.5	7.68	25.3
1002030400	3 G 4	13.2	11.52	30
1002040400	4 G 4	14.5	15.36	36.4
1002050400	5 G 4	15.6	19.2	43.2
1002070400	7 G 4	17	26.88	53.3
1002180400	18 G 4	26.3	69.12	129.5
1002030600	3 G 6	14.6	17.28	38.9
1002040600	4 G 6	16.1	23.04	47.5
1002050600	5 G 6	17.5	28.8	57.4
1002070600	7 G 6	18.9	40.32	70.9