

FLEX-JZ POWER

0,6/1kV black



APPLICATION

- Flex-JZ 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.
- Suitable for measuring, monitoring and control cable in the machine tool and plant engineering, in heat and air conditioning systems and refrigeration plants, etc.
- Suitable for torsional applications which are typical for the loop in wind turbine generators (WTG)

Special features:

- Flex-JZ POWER black is to a large extent resistant against oil and chemicals, rough but extremely flexible.
- All cables with three cores or more are included the green/yellow conductor arranged in the outer layer.
- Numbering distance approx. 20 - 50 mm. To avoid mistakes all numbers have a basic line.
- UV & weather-resistant, and ozone-resistant
- Suitable for outdoor applications

BENEFITS

- High electrical performance due to 4 kv test voltage

CONSTRUCTION

- Fine strands of bare copper conductor
- Stranding acc. to VDE 0295, class 5
- Black cores with white numbers
- JZ = earth conductor green/yellow in outer layer - OZ = without earth conductor
- Outer sheath of special PVC, fire and oil resistant, resistant of UV - radiation - sheath colour: black RAL 9005



TECHNICAL DATA

Conductor Material

Copper, bare

Conductor Class

Class 5 according DIN VDE 0295, resp. IEC 60228

Core Insulation

Special PVC

Core Identification

DIN VDE 0293: Black cores with white numerals

Stranding

Cores twisted in layers

Outer Sheath

Special PVC

Sheath Colour

Black RAL 9005

Rated Voltage [V]

600 /1000

Testing Voltage [V]

4000

Conductor Resistance

< 13,7 MΩ x km

Insulation Resistance

> 20 MΩ x km

Current Carrying Capacity

DIN VDE [see technical guidelines]

Min. Bending Radius Fixed [xd]

4 x outer diameter

Min. Bending Radius Moved [xd]

15 x outer diameter

Working Temp Fixed Min/Max [C]

-40°C up to +80

Working Temp Moved Min/Mac [C]

-15°C up to +80

Temp at Conductor Max.

+70°C in operation, +160°C in case of short-circuit

Burning Behaviour

VDE 0482-332-1-2/IEC 60332-1: flame-retardant and self-extinguishing

Approvals

Oil resistant: EN 60811-2-1

Part No.	No. of cores x cross section	Outer Ø ca. mm	Copper weight kg/100m	Weight kg/100m
101020050	2 x 0.50	6.3	0.9	5.5
101020075	2 x 0.75 OZ	6.8	1.4	6.3
101020100	2 x 1 OZ	7.4	1.9	7.3
101020150	2 x 1.50 OZ	8.5	2.9	9.9
101020250	2 x 2.50 OZ	9.8	4.8	14.2
101030050	3 x 0.50	6.7	1.5	7.6
101030075	3 x 0.75	7.5	2.2	9.1
101030100	3 x1	7.6	2.9	9.8
101030150	3 x 1.50	9.2	4.3	12.2
101030250	3 x 2.50	10.4	7.2	17.6
101030400	3 x4	12.6	11.52	22.5
101030600	3 x6	14.2	17.3	36.5
101040075	4 x 0.75	7.9	2.9	12
101040100	4 x1	8.2	3.9	11
101040050	4 x 0.50	7.3	1.9	10
101040150	4 x 1.50	9.9	5.8	15
101040250	4 x 2.50	11.5	9.6	22.4
101040400	4 x4	14	15.4	31.4
101040600	4 x6	15.7	23.3	42.8
101041000	4 x 10	18.5	38.2	75.9
101041600	4 x 16	21.9	61.4	110.1
101042500	4 x 25	27.2	96.8	162.4
101043500	4 x 35	29.8	134.1	240.3
101045000	4 x 50	37.1	193.1	340.2
101047000	4 x 70	41.9	270.3	435.4
101049500	4 x 95	48.4	364.1	601.2
1010412000	4 x 120	53.8	460.4	750.3
101050075	5 x 0.75	8.7	3.6	13.4
101050100	5 x1	9.6	4.8	13.8
101050050	5 x 0.50	8	2.5	11.6
101050150	5 x 1.50	11.1	7.2	17.6
101050250	5 x 2.50	12.8	12	25.3
101050400	5 x4	15.3	19.1	40.3
101050600	5 x6	17.9	28.9	60.2
101051000	5 x 10	20.5	48.5	92.7
101051600	5 x 16	25.6	77.8	161.7

Part No.	No. of cores x cross section	Outer Ø ca. mm	Copper weight kg/100m	Weight kg/100m
101052500	5 x 25	29.5	120.3	207.4
101053500	5 x 35	33.5	168.2	289.7
101070075	7 x 0.75	9.8	5.1	17.7
101070100	7x 1	10.6	6.7	17.9
101070050	7 x 0.50	9	3.4	13.6
101070150	7 x 1.50	12	10.3	22
101070250	7 x 2.50	15.2	16.9	33.7
101070400	7x 4	16.7	27	52.4
101070600	7x 6	19.7	40.4	80.2
101071000	7 x 10	23	67.5	129.3
101071600	7 x 16	27.1	107.9	187.3
101072500	7 x 25	33	168	294.6
101120075	12 x 0.75	12.7	8.7	24.8
101120100	12 x 1	13.7	11.5	28.1
101120050	12 x 0.50	11.6	5.9	20
101120150	12 x 1.50	15.8	17.5	41.1
101120250	12 x 2.50	18.2	28.9	55.1
101180075	18 x 0.75	14.9	13.2	35
101180100	18 x 1	16	17.4	40.8
101180050	18 x 0.50	14	8.9	28.3
101180150	18 x 1.50	19	25.8	54.7
101180250	18 x 2.50	21.7	43.5	79
101250075	25 x 0.75	17.7	18	47.7
101250100	25 x 1	19.4	24.1	56.7
101250050	25 x 0.50	16.6	12	38.9
101250150	25 x 1.50	22.8	36.3	77.1
101250250	25 x 2.50	26	60	110.1
101340075	34 x 0.75	21.5	24.5	62.6
101340100	34 x 1	23.5	32.6	76.4
101340150	34 x 1.50	26.6	49	99.6
101410075	41 x 0.75	23.1	29.6	73.3
101410100	41 x 1	25.6	39.4	89.1
101500075	50 x 0.75	25.3	36	87.1
101500100	50 x 1	26.8	48	107.6
101500150	50 x 1.50	30.4	72	142.7