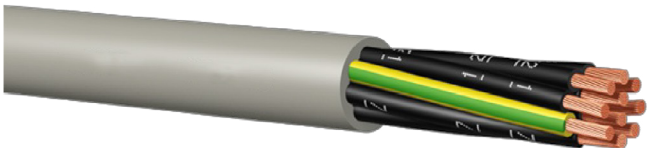
FLEX-JZ/OZ

Flexible control cable,
number coded



APPLICATION

- Used as connecting cable, as measuring, checking and control cable in machine tool manufacturing, plant engineering and on assembly lines and production lines to meet stringent safety requirements.
- Suitable for fixed installation or flexible applications with unrestricted mobility without forced movement control and without exposure to tensile load.
- Installation in dry and moist rooms; outdoor installation not permitted.
- Good chemical resistance, largely oil resistant.
- In power chains for a travelling distance up to 5 m. and 0,2 .. 1 million bending cycles, for following dimension: 0.5 to 2.5 mm2. and 2 to 7 conductors.

BENEFITS

- Space-saving installation due to small cable diameters
- Wide choice of standardized lengths and individual cuts
- Very broad range, items with up to 100 conductors

CONSTRUCTION

- Fine strands of bare copper conductor
- PVC core insulation black with continuous white figure imprint - stranding acc. to VDE 0295 class 5
- Earth conductor green/yellow in other layer
- PVC outer sheath grey, RAL 7001

TECHNICAL DATA

Conductor Material
Copper, Bare
Conductor Class
Class 5 according DIN VDE 0295, resp. IEC 60228
Core Insulation
PVC
Core Identification
According DIN VDE 0293 black cores with white numerals
Stranding
Cores twisted in layers
Outer Sheath
PVC
Sheath Colour
Grey, RAL 7001
Rated Voltage [V]
300/500
Testing Voltage [V]
4000
Conductor Resistance
DIN VDE 0295, resp. IEC 60228
Insulation Resistance
> 20 MΩ x km
Current Carrying Capacity
DIN VDE (see technical data)
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, +150°C in case of short-circuit
Burning Behaviour
IEC 60332-1: flame-retardant and self-extinguishing
Approvals
EN 50525-2-11

Contact : 087-053-0999

IPT-KABEL

Part No.	No. of cores x cross section	Outer Ø ca. mm	Copper weight kg/100m	Weight kg/100m
10020050	2 x 0.50 OZ	4.7	1	3.3
10020075	2 x 0.75 OZ	5.2	1.5	4.3
10020100	2 x 1 OZ	5.5	1.92	5
10020150	2 x 1.50 OZ	6.3	2.9	6.7
10020250	2 x 2.50 OZ	7.6	4.8	10.1
10020400	2 x 4 OZ	9.9	7.7	18.5
10030050	3 x 0.50	5.1	1.5	4.7
10030075	3 x 0.75	5.8	2.2	6.6
99030075	3 x 0.75 OZ	5.8	2.2	6.6
10030100	3 x1	6.2	2.9	6.8
99030100	3 x 1 OZ	6.2	2.9	6.4
99030150	3 x 1.50 OZ	6.8	4.3	9.5
10030150	3 x 1.50	6.8	4.3	9.5
10030250	3 x 2.50	8.3	7.2	14.8
99030250	3 x 2.50 OZ	8.3	7.2	14.8
10030400	3 x4	10.1	11.52	23.5
10030600	3 x6	11.7	17.3	41.5
10031000	3 x 10	14.7	28.8	68.2
10031600	3 x 16	20	46.1	82.7
10033500	3 x 35	25.9	100.8	158.5
10035000	3 x 50	31.5	144	255
10040050	4 x 0.50	5.5	1.92	5.8
10040075	4 x 0.75	6.35	2.9	7.8
99040075	4 x 0.75 OZ	6.3	2.9	7.8
10040100	4 x1	6.7	3.8	8.5
99040100	4 x 1 OZ	6.7	3.8	8.5
10040150	4 x 1.50	7.4	5.8	11.7
99040150	4 x 1.50 OZ	7.4	5.8	11.7
99040250	4 x 2.50 OZ	9.1	9.6	23.6
10040250	4 x 2.50	9.1	9.6	23.6
10040400	4 x4	11	15.4	29.9
10040600	4 x6	12.8	23	48
10041000	4 x 10	16.3	38.4	73.7
10041000	4 x 16	20.6	61.4	108.7
10042500	4 x 25	25.7	96	158.2
10043500	4 x 35	27.2	134.4	210.6

Part No.	No. of cores x cross section	Outer Ø ca. mm	Copper weight kg/100m	Weight kg/100m
10045000	4 x 50	36.7	192	296.3
10050050	5 x 0.50	6.2	2.4	7.5
99050050	5 x 0.50 OZ	6.2	2.4	7.5
10050075	5 x 0.75	6.9	3.6	9.1
99050075	5 x 0.75 OZ	6.9	3.6	9.1
99050100	5 x 1 OZ	7.3	4.8	11
10050100	5x 1	7.3	4.8	11
99050150	5 x 1.50 OZ	7.4	7.2	15.2
10050150	5 x 1.50	7.4	7.2	15.2
10050250	5 x 2.50	10.2	12	26.3
99050250	5 x 2.50 OZ	10.2	12	26.3
10050400	5x 4	12	19.2	36.3
10050600	5x 6	14.4	28.8	58.3
10051000	5 x 10	18.2	48	91.4
10051600	5 x 16	22.4	76.8	137
10052500	5 x 25	28.7	120	199.8
10053500	5 x 35	34.7	168	248.5
10055000	5 x 50	37	240	393.6
10060050	6 x 0.50	6.9	2.9	7.5
10060075	6 x 0.75	7.5	4.32	10.8
99060075	6 x 0.75 OZ	7.5	4.32	10.8
10060100	6x 1	8.1	5.8	13.5
10060150	6 x 1.50	8.5	8.6	18.3
10070050	7 x 0.50	6.8	3.4	9.3
99070050	7 x 0.50 OZ	6.8	3.4	9.3
10070075	7 x 0.75	7.5	5	12.4
99070075	7 x 0.75 OZ	7.5	5	12.4
99070100	7 x 1 OZ	8.7	6.7	14.6
10070100	7x 1	8.7	6.7	14.6
99070150	7 x 1.50 OZ	8.9	10.1	19.2
10070150	7 x 1.50	8.9	10.1	19.2
10070250	7 x 2.50	11.25	16.8	29.8
99070250	7 x 2.50 OZ	11.3	16.8	29.8
10070400	7x 4	13.6	26.9	48.8
10070600	7x 6	16	40.3	78.2
10071000	7 x 10	20.1	67.2	119.1

Contact : 087-053-0999

IPT-KABEL

Part No.	No. of cores x cross section	Outer Ø ca. mm	Copper weight kg/100m	Weight kg/100m
10071600	7 x 16	25.6	107.5	177.9
10072500	7 x 25	34	168	247.7
10080050	8 x 0.50	7.9	3.8	11.5
99080050	8 x 0.50 OZ	7.9	3.8	11.5
99080075	8 x 0.75 OZ	9	5.8	14.3
10080075	8 x 0.75	9	5.8	14.3
10080100	8 x1	9.7	7.7	14.8
10080150	8 x 1.50	10.9	11.5	20.5
10080250	8 x 2.50	13.2	19.2	33.9
10090075	9 x 0.75	9.8	6.5	16.2
10090100	9 x1	10.4	8.6	18.2
10090150	9 x 1.50	11.4	13	24.2
10100050	10 x 0.50	8.6	4.8	14.2
10100075	10 x 0.75	9.75	7.2	18.5
10100100	10 x 1	10.5	9.6	21
99100100	10 x 1 OZ	10.5	9.6	21
10100150	10 x 1.50	11.8	14.4	25.2
10100250	10 x 2.50	14.6	24	37.5
10110150	11 x 1.50	13.3	15.84	29.5
99120050	12 x 0.50 OZ	9.4	5.8	15
10120050	12 x 0.50	9.4	5.8	15
10120075	12 x 0.75	10.1	8.6	19.1
99120075	12 x 0.75 OZ	10.1	8.6	19.1
10120100	12 x 1	10.6	11.5	23.2
10120150	12 x 1.50	11.1	17.3	31.2
99120150	12 x 1.50 OZ	11.1	17.3	31.2
10120250	12 x 2.50	15	28.8	52.2
10120400	12 x 4	19.6	46.1	79
10140050	14 x 0.50	10.2	6.7	17.2
10140075	14 x 0.75	11	10.08	19.5
10140100	14 x 1	11.5	13.4	27.1
10140150	14 x 1.50	12.9	20.2	34.9
10140250	14 x 2.50	16.1	33.6	58.8
10150075	15 x 0.75	11.2	10.8	22.9
10160050	16 x 0.50	10.5	7.6	17.5
10160100	16 x 1	12	15.4	30

Part No.	No. of cores x cross section	Outer Ø ca. mm	Copper weight kg/100m	Weight kg/100m
10160150	16 x 1.50	13.7	23	40.3
10160250	16 x 2.50	18.4	38.4	66.5
10180050	18 x 0.50	11.5	8.6	21.6
10180075	18 x 0.75	12	13	28.3
10180100	18 x 1	13	17.3	32.8
99180100	18 x 1 OZ	13	17.3	32.8
10180150	18 x 1.50	14.65	25.9	45.6
10180250	18 x 2.50	18.1	43.2	74.9
10190100	19 x 1	13.9	18.3	34.6
10200075	20 x 0.75	14.26	14.4	32
10200100	20 x 1	13.7	19.2	35.7
99200100	20 x 1 OZ	13.7	19.2	35.7
10200150	20 x 1.50	16.4	28.8	50.7
10200250	20 x 2.50	20.8	48	83.2
10210050	21 x 0.50	12.8	10.1	24.9
10210075	21 x 0.75	13.3	15.1	29.3
10210100	21 x 1	14.4	20.2	44.4
10210150	21 x 1.50	16.4	30.2	57.3
10210250	21 x 2.50	21.9	50.4	92.8
10250050	25 x 0.50	13.3	12	25.7
10250075	25 x 0.75	14	18	38.8
10250100	25 x 1	14.9	24	53.1
10250150	25 x 1.50	17.2	36	63.8
10250250	25 x 2.50	21.1	60	102.4
10300050	30 x 0.50	14.4	14.4	31.2
10320075	32 x 0.75	15.5	23	54.1
10320150	32 x 1.50	20.82	46.1	82
10340050	34 x 0.50	15.75	16.3	39.8
10340075	34 x 0.75	16.2	24.5	44.8
10340100	34 x 1	17.5	32.6	54.9
10340150	34 x 1.50	19.7	49	72.8
10340250	34 x 2.50	24.7	81.6	115
10370100	37 x 1	16.8	35.52	70.1
10400050	40 x 0.50	17.1	19.2	45.1
10400250	40 x 2.50	29.2	96	149.9
10410075	41 x 0.75	17.9	29.6	53.3

Contact : 087-053-0999

Part No.	No. of cores x cross section	Outer Ø ca. mm	Copper weight kg/100m	Weight kg/100m
10410100	41 x 1	19.1	39.4	66.8
10420050	42 x 0.50	17.5	20.2	47
10420075	42 x 0.75	18	30.2	55.4
10420100	42 x 1	19.1	40.3	66.4
10420150	42 x 1.50	21.5	60.5	88.8
10420250	42 x 2.50	29.2	100.8	152.5
10500050	50 x 0.50	18.8	24	53.5
10500075	50 x 0.75	19.6	36	65.5
10500100	50 x 1	21	48	79.4
10500150	50 x 1.50	23.6	72	105.1
10500250	50 x 2.50	32.1	120	182.3
10520050	52 x 0.50	19.2	24.96	55.2
10560100	56 x 1	23.2	53.8	96.2
10610050	61 x 0.50	19.7	29.3	60.1
10610075	61 x 0.75	21.1	43.9	87.6
10610100	61 x 1	22.5	58.6	93.4
10610150	61 x 1.50	25.5	87.8	125.9
10610250	61 x 2.50	34.7	146.4	275
10650050	65 x 0.50	20.9	31.2	66.8
10650075	65 x 0.75	22.1	46.8	83.7
10650100	65 x 1	23.5	62.4	100.6
10650150	65 x 1.50	26	93.6	127.2
10800050	80 x 0.50	23.3	38.4	82.9
10800075	80 x 0.75	26.5	57.6	113
10800100	80 x 1	28.2	76.8	135.4
10800150	80 x 1.50	33	115.2	189
101000050	100 x 0.50	29	48	98
101000075	100 x 0.75	31.4	72	132
101000100	100 x 1	31.9	96	164.4
101000150	100 x 1.50	38.2	144	235
101000250	100 x 2.50	46	240	445

Contact : 087-053-0999