

TEXOFLEX 500V TFXCY - OZ TEXOFLEX 500V TFXCY - JZ



Application

As control and supply cables for control units in metal working machines, transportation equipment, production lines, as well as for control and measuring systems at rated voltage U_0/U 300/500 V .

The cables are suitable for flexible applications for free, non-continuous returning movement, without tensile load as well as for fixed laying.

They are oil and chemical resistant under normal operation conditions and are suitable for use in dry, damp or wet interiors. These cables may only be laid outdoors with UV-protection and in observance of the temperature range.

Technical data

- rated voltage U_0/U : 300/500 V
- test voltage: 4 kV
- insulation resistance at 70 °C: min 20 GΩ x cm
- maximum conductor temperature: + 70 °C
- max. conductor temperature at short circuit for 5 s : + 160 °C
- temperature range:
occasional flexing: - 15 °C ** to +70 °C; fixed installation : -40 °C to +80 °C
** Tested according EN 60811-1-4: cold bending test, impact resistance test at low temperatures, elongation test at low temperatures.
- minimum temperature during installation: - 5 °C
- minimum bending radius for: mobile - 20 D;
fixed - 6 D (D - outer cable diameter)
- flame test: flame-retardant acc. to IEC 60332-1
- sheath colour: silver grey RAL7001

Cable design

- copper conductors class 5 according to IEC 60228
- insulation: PVC compound type TI2 according to HD 21.1
- inner covering: PVC compound type TM2 according to HD 21.1
- screen of tinned copper wire braiding: coverage 85±5%
- sheath: PVC compound type TM2 according to HD 21.1

Core identification in accordance to EN 50334

TFXCY - JZ - all cores black, with imprinted numbers and green-yellow protective conductor in the outer layer

TFXCY - OZ - all cores black, with imprinted numbers

Number of Conductors and Cross Section	Outer Diameter	Copper Weight		Number of Conductors and Cross Section	Outer Diameter	Copper Weight
No x mm ²	mm	kg/km		No x mm ²	mm	kg/km
2 x 0,5*	6,9	41,0		2 x 1,5*	8,3	66,0
3 x 0,5*	7,1	45,5		3 x 1,5*	8,9	83,0
4 x 0,5*	7,7	55,0		4 x 1,5*	9,4	100,0
5 x 0,5	8,2	66,0		5 x 1,5*	10,1	125,0
6 x 0,5	8,9	73,0		6 x 1,5	11,0	154,0
7 x 0,5	8,9	81,0		7 x 1,5*	11,0	163,0
10 x 0,5	10,6	115,0		10 x 1,5	13,9	211,0
12 x 0,5*	10,6	138,5		12 x 1,5*	13,9	280,0

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Number of Conductors and Cross Section	Outer Diameter	Copper Weight		Number of Conductors and Cross Section	Outer Diameter	Copper Weight
No x mm ²	mm	kg/km		No x mm ²	mm	kg/km
14 x 0,5	11,2	146,0		14 x 1,5	14,8	299,0
19 x 0,5	12,7	195,0		19 x 1,5	16,5	427,0
24 x 0,5	14,4	237,0		24 x 1,5	19,2	520,0
27 x 0,5	14,7	247,0		27 x 1,5	19,7	549,0
30 x 0,5	15,2	297,0		30 x 1,5	20,5	570,0
37 x 0,5	16,6	352,0		37 x 1,5	22,3	763,0
2 x 0,75*	7,5	46,0		2 x 2,5	9,8	112,0
3 x 0,75*	7,8	57,9		3 x 2,5*	10,4	146,0
4 x 0,75*	8,3	64,0		4 x 2,5*	11,2	167,0
5 x 0,75	9,1	77,4		5 x 2,5*	12,4	200,0
6 x 0,75	9,6	89,0		6 x 2,5	13,5	248,0
7 x 0,75*	9,6	102,0		7 x 2,5	13,5	288,0
10 x 0,75	12,1	140,0		10 x 2,5	16,9	402,0
12 x 0,75*	12,1	177,0		12 x 2,5	16,9	477,3
14 x 0,75	12,7	192,0		14 x 2,5	18,4	518,0
19 x 0,75	14,2	250,0		19 x 2,5	20,7	625,0
24 x 0,75	16,3	298,0				
25 x 0,75*	16,3	307,3		2 x 4,0	11,0	160,0
27 x 0,75	16,6	336,0		3 x 4,0	11,9	220,0
30 x 0,75	17,0	378,0		4 x 4,0*	12,8	294,0
37 x 0,75	19,1	452,0		5 x 4,0	14,0	328,0
				6 x 4,0	15,2	360,0
2 x 1,0*	7,8	56,0		7 x 4,0	15,2	388,0
3 x 1,0*	8,1	65,3				
4 x 1,0*	8,6	78,1		2 x 6,0	12,9	195,0
5 x 1,0	9,4	89,4		3 x 6,0	13,7	270,0
6 x 1,0	10,1	112,0		4 x 6,0*	14,9	361,0
7 x 1,0*	10,1	126,0		5 x 6,0	16,4	441,0
10 x 1,0	12,7	166,0		6 x 6,0	18,2	510,0
12 x 1,0*	12,7	188,1		7 x 6,0	18,2	452,0
14 x 1,0	13,5	215,0				
18 x 1,0*	14,9	286,0		2 x 10,0	17,0	330,0
19 x 1,0	15,0	297,0		3 x 10,0	18,5	475,0
24 x 1,0	17,1	362,0		4 x 10,0*	20,2	558,0
25 x 1,0*	17,2	388,5				
27 x 1,0	17,3	414,0		2 x 16,0	19,4	502,0
30 x 1,0	18,5	452,0		3 x 16,0	20,6	672,0
37 x 1,0	20,1	550,0		4 x 16,0	22,5	910,0
				2 x 25,0	23,0	750,0
				3 x 25,0	24,6	1020,0

* Indicates items which are available from stock.

Other sizes are available on request but will be subjected to minimum order quantities.

Roodepoort - 011 271 0000
Witbank - 013 692 3448/90
Rustenburg - 014 592 2209/10
email: info@powermite.co.za

Cape Town - 021 951 1505
Durban - 031 700 6830/4
Richards Bay - 035 751 1213