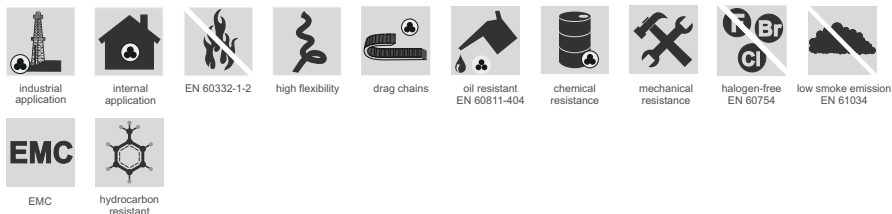


# BiTflex<sup>®</sup> 510 servo



Drag chain cables

Connecting cable between servo controller and motor for application in drag chains



## Technical data:

### Thermal parameters:

**Operating temperature:**  
fixed installation: -40 °C to 80 °C  
flexible connections: -30 °C to 80 °C

### Electrical parameters:

**Operating voltage:**  
power cores:  $U_p/U_n = 600/1000$  V  
control cores: 24 V AC/DC  
**Test voltage (50 Hz):**  
power cores (50 Hz): 4000 V  
control cores (50 Hz): 1000 V

### Mechanical parameters:

**Min. bending radius:**  
flexible connections:  
up to 16 mm<sup>2</sup>: 7,5 x Ø  
from 25 mm<sup>2</sup> up: 10 x Ø  
fixed installations: 4 x Ø

## Design:

**Conductors:** highly flexible, copper conductors, multi-stranded class 6 acc. to EN 60228  
**Insulation:** special halogen-free TPE  
**Screen:** tinned copper wire braid  
**Outer sheath:** special PUR compound, resistant to oils and industrial coolants, low adhesive; colour: orange

## Application:

Highly flexible servomotor and feedback cables for connections between servo controller and motor. Intended especially for use in power chains. Designed and tested to withstand at least 10 million bending cycles in a drag chain. Cables are oil, wear and tear resistant, halogen-free and cold flexible. Cables classified according to EN 50575 (CPR).

### motor cables

Cat. no.	n x mm <sup>2</sup>	Core marking	Outer diameter* [mm]	Approx. cable weight [kg/km]
SB5790	4G1,5		9,2	136
SB5791	4G2,5	U1	11,0	211
SB5792	4G4	V2	12,8	299
SB5793	4G6	W3	14,7	418
SB5794	4G10	green-yellow	17,3	611
SB5795	4G16		20,2	850

### servo cables

Cat. no.	n x mm <sup>2</sup>	Core marking	Outer diameter* [mm]	Approx. cable weight [kg/km]
SB5800	4G1,5+(2x1,5)	Power cores:	11,8	215
SB5801	4G2,5+(2x1,5)	U1	13,9	300
SB5802	4G4+(2x1,5)	V2	15,3	380
SB5803	4G6+(2x1,5)	W3	16,9	487
SB5804	4G10+(2x1,5)	green-yellow	18,9	665
SB5805	4G16+(2x1,5)	Control cores:	22,0	951
SB5806	4G25+(2x1,5)	BR1	26,4	1355
		BR2		

\*Outer diameter tolerance: +/- 5%  
Cable Factory BITNER reserves the right to modify specifications without prior notification  
Note: on customer's request other cross sections or number of cores can be produced