

BiTflex[®] 500



Highly flexible, PVC sheathed cables for drag chains, rated 300/500 V



Drag chain cables



Technical data:

Thermal parameters:

Operating temperature:

fixed installation: -40 °C to 80 °C
flexible connections: -5 °C to 80 °C

Electrical parameters:

Operating voltage: $U_i/U = 300/500$ V

Test voltage (50 Hz): 3000 V

Insulation resistance: 20 MΩ x km

Mechanical parameters:

Min. bending radius:

flexible connections: 7,5 x Ø
fixed installation: 4 x Ø

Design:

Conductors:

highly flexible, bare copper conductors, multi-stranded class 6 acc. to EN 60228

Insulation:

PVC compound

Core identification:

black, number coded conductors, cables with protective earth conductor marked G (e.g. 7G1,5)

Core arrangement:

cores twisted together in layers with short lay length, special wrapping of separating tape between each layer PVC compound, oil resistant (cf. chemical resistance table), self-extinguishing and flame retardant acc. to EN 60332-1-2; colour: grey

Outer sheath:

Application:

Highly flexible power/control cables for installations in drag chains suitable for continuous movements and multiple bending. Designed and tested to withstand at least 5 million bending cycles in a drag chain. Suitable for flexible connections in industrial devices, technological lines and machines operating in dry and damp rooms. Cables classified according to **EN 50755 (CPR)**.

Cat. no.	n x mm ²	Outer diameter* [mm]	Approximate cable weight [kg/km]
S55000	2x0,5	5,0	38,0
S55001	3G0,5	5,3	45,0
S55002	4G0,5	5,7	55,0
S55003	5G0,5	6,2	65,0
S55004	7G0,5	7,0	85,0
S55005	7x0,5	7,0	85,0
S55006	10G0,5	9,4	133,0
S55007	12G0,5	9,4	143,0
S55008	14G0,5	9,8	160,0
S55009	16G0,5	10,3	180,0
S55010	18G0,5	10,9	200,0
S55011	20G0,5	11,6	225,0
S55012	24G0,5	12,8	260,0
S55013	30G0,5	13,7	315,0
S55014	37G0,5	14,8	375,0
S55015	2x0,75	5,3	45,0
S55016	3G0,75	5,6	54,0
S55017	4G0,75	6,1	65,0
S55018	5G0,75	6,8	82,0
S55019	7G0,75	7,4	102,0
S55020	7x0,75	7,4	102,0
S55021	10G0,75	10,0	160,0
S55022	12G0,75	10,0	172,0
S55023	14G0,75	10,5	194,0
S55024	16G0,75	11,0	218,0
S55025	18G0,75	11,8	249,0
S55026	20G0,75	12,4	274,0
S55027	24G0,75	13,9	324,0

Cat. no.	n x mm ²	Outer diameter* [mm]	Approximate cable weight [kg/km]
S55028	2x1,0	5,7	51,6
S55029	3G1,0	6,1	64,2
S55030	4G1,0	6,8	80,7
S55031	5G1,0	7,4	98,2
S55032	7G1,0	8,0	122,4
S55033	7x1,0	8,0	122,4
S55034	10G1,0	10,8	193,7
S55035	12G1,0	10,8	207,8
S55036	14G1,0	11,5	240,0
S55037	16G1,0	12,2	271,2
S55038	18G1,0	12,8	301,5
S55039	20G1,0	13,6	339,4
S55040	24G1,0	15,1	393,1
S55041	2x1,5	6,9	77,0
S55042	3G1,5	7,3	95,0
S55043	4G1,5	8,0	118,0
S55044	5G1,5	9,1	150,0
S55045	7G1,5	9,9	188,0
S55046	10G1,5	13,1	188,0
S55047	12G1,5	13,1	308,0
S55048	2x2,5	8,0	113,0
S55049	3G2,5	8,5	142,0
S55050	4G2,5	9,7	187,0
S55051	5G2,5	10,6	225,0
S55052	7G2,5	11,8	291,0
S55053	10G2,5	16,0	454,0
S55054	12G2,5	16,0	495,0

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