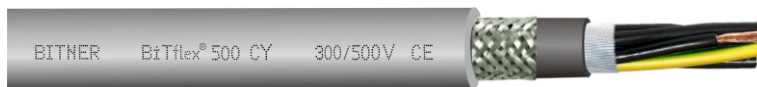


BITflex® 500 CY



Drag chain cables

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



Technical data:

Thermal parameters:

Operating temperature:

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

Electrical parameters:

Operating voltage: $U_0/U = 300/500$ V

Test voltage (50 Hz): 3000 V

Insulation resistance: 20 MΩ x km

Mechanical parameters:

Min. bending radius:

flexible connections: 10 x Ø
fixed installation: 5 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

Inner sheath:

Screen:

tinned copper wire braid, coverage ≥85%, special wrapping with separating tape beneath the screen, around the screen special reinforcing fleece tape

Outer sheath:

PVC compound, oil resistant (cf. chemical resistance table), self-extinguishing and flame retardant acc. to EN 60332-1-2; colour: grey

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. Common screen of tinned copper wire braid ensures very good protection against external electromagnetic field especially in industrial environment. Suitable for flexible connections in industrial devices, technological lines and machines operating in dry and damp rooms. Cables classified according to EN 50575 (CPR).

Cat. no.	n x mm ²	Outer diameter [mm]	Approximate cable weight [kg/km]
S55300	2x0,5	6,9	73,0
S55301	3G0,5	7,2	82,0
S55302	4G0,5	7,9	103,0
S55303	5G0,5	8,3	117,0
S55304	7G0,5	9,3	145,0
S55305	12G0,5	11,5	215,0
S55306	14G0,5	11,9	235,0
S55307	18G0,5	13,6	303,0
S55308	24G0,5	15,3	370,0
S55309	2x0,75	7,2	82,0
S55310	3G0,75	7,5	93,0
S55311	4G0,75	8,3	117,0
S55312	5G0,75	9,2	142,0
S55313	7G0,75	9,7	165,0
S55314	12G0,75	12,1	150,0
S55315	18G0,75	14,4	354,0
S55316	24G0,75	16,7	455,0

Cat. no.	n x mm ²	Outer diameter [mm]	Approximate cable weight [kg/km]
S55317	2x1,0	7,6	92,0
S55318	3G1,0	8,2	115,0
S55319	4G1,0	9,1	142,0
S55320	5G1,0	9,7	163,0
S55321	7G1,0	10,3	192,0
S55322	12G1,0	12,9	293,0
S55323	18G1,0	15,3	415,0
S55324	24G1,0	17,8	535,0
S55325	2x1,5	9,2	137,0
S55326	3G1,5	9,6	158,0
S55327	4G1,5	10,4	188,0
S55328	5G1,5	11,0	215,0
S55329	7G1,5	12,0	263,0
S55330	12G1,5	16,0	438,0
S55331	3G2,5	10,8	213,0
S55332	4G2,5	11,9	263,0
S55333	5G2,5	12,7	305,0
S55334	7G2,5	14,3	395,0

*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