

BiTflex[®] 530 CPUR

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



industrial application



internal application



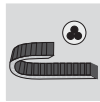
external application



EN 60332-1



high flexibility



drag chains



oil resistant
EN 60811-404



chemical resistance



mechanical resistance



halogen-free
EN 60754



low smoke emission
EN 61034



UV resistance



EMC

Technical data:

Operating temperature:

Fixed installation: -40°C to 80°C

Flexible connections: -30°C to 80°C

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

Test voltage (50Hz): 3000V

Insulation resistance (min): 100MΩxkm

Min. bending radius:

Flexible connections: 10xØ

Fixed installation: 5xØ

Construction:

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

Insulation: special halogen-free TPE or PP

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

Inner sheath: special halogen-free TPE

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

Outer sheath: special PUR compound, resistant to abrasion, oil, chemicals,

industrial coolants, flame retardant (as per 6033201), halogen-free and UV resistant

Outer sheath colour: grey, mat

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 10 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 installations in dry and damp rooms as well as outdoors – outer sheath is UV resistant. Cables classified according to **EN 50575 (CPR)**.

Cat. no.	n x mm ²	Outer diameter [mm]	Approximate cable weight [kg/km]	Cu [kg/km]
SB3900	2x0,5	6,8	67	38
SB3901	3G0,5	7,0	80	43
SB3902	4G0,5	7,4	94	51
SB3903	5G0,5	8,1	107	60
SB3904	6G0,5	8,7	120	64
SB3905	7G0,5	9,3	132	68
SB3906	12G0,5	10,8	175	104
SB3907	18G0,5	12,6	230	143
SB3908	20G0,5	13,5	270	156
SB3909	25G0,5	15,2	310	200
SB3910	30G0,5	15,7	408	225
SB3911	36G0,5	16,7	460	260
SB3912	2x0,75	7,3	80	42
SB3913	3G0,75	7,7	100	48
SB3914	4G0,75	8,2	115	60
SB3915	5G0,75	8,8	130	68
SB3916	7G0,75	10,2	160	89
SB3917	12G0,75	12,0	230	132
SB3918	18G0,75	14,4	330	198
SB3919	25G0,75	17,2	450	269
SB3920	36G0,75	19,1	600	356
SB3921	2 x1,0	7,7	90	45
SB3922	3G1,0	8,1	110	56

Cat. no.	n x mm ²	Outer diameter [mm]	Approximate cable weight [kg/km]	Cu [kg/km]
SB3923	4G1,0	8,7	125	69
SB3924	5G1,0	9,5	150	80
SB3925	7G1,0	11,0	200	110
SB3926	12G1,0	13,0	290	179
SB3927	18G1,0	15,6	420	252
SB3928	25G1,0	19,0	550	337
SB3929	30G1,0	19,6	630	381
SB3930	36G1,0	20,8	760	476
SB3931	2x1,5	8,3	120	59
SB3932	3G1,5	8,9	140	76
SB3933	4G1,5	9,6	160	90
SB3934	5G1,5	10,5	200	114
SB3935	7G1,5	12,2	250	145
SB3936	12G1,5	14,8	420	248
SB3937	18G1,5	17,2	560	356
SB3938	25G1,5	20,9	800	495
SB3939	36G1,5	23,2	1050	672
SB3940	3G2,5	10,7	200	112
SB3941	4G2,5	11,6	235	136
SB3942	5G2,5	12,7	290	184
SB3943	7G2,5	15,3	420	246
SB3944	12G2,5	18,5	630	382
SB3945	18G2,5	21,8	920	575
SB3946	25G2,5	26,3	1260	775

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