

BiT RE-2Y(St)H

Sheathed with LSOH compound instrumentation cables with collective electrostatic screen, rated 500 V



industrial application



internal application



EN 60332-1-2



EN 60332-3-24



data transmission



UV resistance



low smoke emission
EN 61034



halogen-free
EN 60754

RoHS 2015/863/EU



LVD 2014/35/EU



CPR 305/2011



Technical data:

Thermal parameters:

Temperature range:

operating temperature: -40 °C to 80 °C

installation temperature: -5 °C to 80 °C

Electrical parameters:

Operating voltage (peak value): U = 500 V

Test voltage:

Core/core: 2000 V

Core/screen: 2000 V

Insulation resistance: > 5 GΩ x km

Mechanical parameters:

Min. bending radius: 7,5 x Ø

Design:

Conductors:

bare, stranded copper conductors class 2

acc. to EN 60228

polyethylene (PE)*

Insulation:

Core identification:

Pairs:

core A – black, core B – white (black numbering on the white core)

Triples:

core A – black, core B – white, core C – red (black numbering on the white core)

Core arrangement:

Pairs:

cores twisted in pairs, pairs twisted together and wrapped with polyester tape (PET)

Triples:

cores twisted in triples, triples twisted together and wrapped with polyester tape (PET)

Screen:

aluminum backed polyester tape with stranded tinned copper drain wire underneath (0.5 mm²)

Outer sheath:

special halogen-free polymer, self-extinguishing and flame retardant (as per EN 60332-1-2, EN 60332-3-24, IEC 60332-3 cat. C), UV resistant; colour: black, blue**

Application:

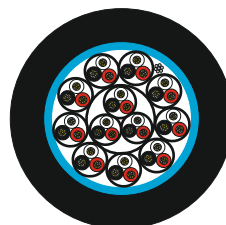
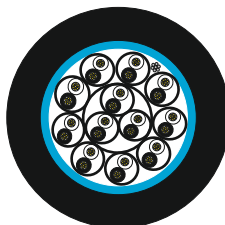
Cables designed for data transmission in numerical control systems ensuring optimum transmission of data up to 200 Kbit/s. Collective electrostatic screen protects against external interferences. Cables are suitable for application indoor and in dry and damp rooms. Outer sheath is UV resistant. Cables classified according to **EN 50575 (CPR)**.

* Available also with XLPE insulation – BiT RE-2Y(St)H

** Cables with blue sheath have got extended catalogue numbers ending -06. E.g. Catalogue no. for BiT RE-2Y(St)H 1x2x0,5 with black outer sheath is ID5850
Catalogue no. 1B-BiT RE-2Y(St)H 1x2x0,5 with blue outer sheath is ID5850.06

Electrical parameters:

	Capacitance [nF/km]	Conductor resistance [Ω/km]	Inductivity 1mH/km L/R [μH/Ω]
For one pair/triple:			
0,5 mm ²	100	36,7	25
0,75 mm ²	100	25,0	25
1,0 mm ²	100	18,5	25
1,3 mm ²	100	14,2	40
1,5 mm ²	100	12,3	40
Up to four pairs/triples:			
0,5 mm ²	75		
0,75 mm ²	75		
1,0 mm ²	75		
1,3 mm ²	85		
1,5 mm ²	85		
Over four pairs/triples:			
0,5 mm ²	65		
0,75 mm ²	65		
1,0 mm ²	65		
1,3 mm ²	75		
1,5 mm ²	75		



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paired cables

Cat. no.	n x 2 x mm ²	Outer diameter* [mm]	Approximate cable weight [kg/km]
ID5850	1x2x0,5	6,2	44
ID5851	2x2x0,5	9,7	88
ID5852	4x2x0,5	11,0	69
ID5853	5x2x0,5	12,3	146
ID5854	6x2x0,5	13,1	161
ID5855	8x2x0,5	14,4	199
ID5856	10x2x0,5	16,3	247
ID5857	12x2x0,5	16,9	282
ID5858	16x2x0,5	19,1	356
ID5859	20x2x0,5	21,3	445
ID5860	24x2x0,5	23,5	521
ID5861	1x2x0,75	6,7	52
ID5862	2x2x0,75	10,5	108
ID5863	4x2x0,75	12,3	149
ID5864	5x2x0,75	13,4	184
ID5865	6x2x0,75	14,4	204
ID5866	8x2x0,75	16,0	262
ID5867	10x2x0,75	17,9	316
ID5868	12x2x0,75	18,6	363
ID5869	16x2x0,75	21,2	473
ID5870	20x2x0,75	23,7	584
ID5871	24x2x0,75	26,0	685
ID5872	1x2x1,0	7,2	66
ID5873	2x2x1,0	11,1	124
ID5874	4x2x1,0	12,9	176
ID5875	5x2x1,0	14,2	218
ID5876	6x2x1,0	15,2	242
ID5877	8x2x1,0	16,9	312
ID5878	10x2x1,0	18,9	378
ID5879	12x2x1,0	19,8	446
ID5880	16x2x1,0	22,4	570
ID5881	20x2x1,0	25,0	706
ID5882	24x2x1,0	27,8	845
ID5883	1x2x1,3	7,5	72
ID5884	2x2x1,3	11,8	148
ID5885	4x2x1,3	13,5	210
ID5886	5x2x1,3	15,1	268
ID5887	6x2x1,3	16,1	300
ID5888	8x2x1,3	17,9	388
ID5889	10x2x1,3	20,0	470
ID5890	12x2x1,3	21,0	555
ID5891	16x2x1,3	23,8	712
ID5892	20x2x1,3	26,5	881
ID5893	24x2x1,3	29,5	1054
ID5894	1x2x1,5	7,8	76
ID5895	2x2x1,5	12,3	158
ID5896	4x2x1,5	14,4	231
ID5897	5x2x1,5	15,8	286
ID5898	6x2x1,5	16,9	320
ID5899	8x2x1,5	18,8	413
ID5900	10x2x1,5	21,2	512
ID5901	12x2x1,5	22,0	592
ID5902	16x2x1,5	25,2	773
ID5903	20x2x1,5	28,0	955
ID5904	24x2x1,5	31,0	1127

triple cables

Cat. no.	n x 3 x mm ²	Outer diameter* [mm]	Approximate cable weight [kg/km]
ID5905	1x3x0,5	6,5	52
ID5906	2x3x0,5	11,1	117
ID5907	4x3x0,5	13,2	164
ID5908	5x3x0,5	14,5	200
ID5909	6x3x0,5	15,9	238
ID5910	8x3x0,5	18,0	288
ID5911	10x3x0,5	20,6	350
ID5912	12x3x0,5	21,3	400
ID5913	16x3x0,5	24,2	535
ID5914	20x3x0,5	26,7	660
ID5915	24x3x0,5	30,0	763
ID5916	1x3x0,75	7,2	67
ID5917	2x3x0,75	12,2	144
ID5918	4x3x0,75	14,5	208
ID5919	5x3x0,75	16,0	254
ID5920	6x3x0,75	17,7	313
ID5921	8x3x0,75	19,8	370
ID5922	10x3x0,75	22,9	462
ID5923	12x3x0,75	23,7	531
ID5924	16x3x0,75	26,9	701
ID5925	20x3x0,75	29,7	871
ID5926	24x3x0,75	33,5	1026
ID5927	1x3x1,0	7,5	77
ID5928	2x3x1,0	13,1	175
ID5929	4x3x1,0	15,3	247
ID5930	5x3x1,0	16,8	303
ID5931	6x3x1,0	18,7	372
ID5932	8x3x1,0	20,9	444
ID5933	10x3x1,0	24,0	543
ID5934	12x3x1,0	25,0	641
ID5935	16x3x1,0	28,5	849
ID5936	20x3x1,0	31,6	1072
ID5937	24x3x1,0	35,4	1246
ID5938	1x3x1,3	7,8	90
ID5939	2x3x1,3	13,7	204
ID5940	4x3x1,3	16,3	306
ID5941	5x3x1,3	17,9	375
ID5942	6x3x1,3	19,8	459
ID5943	8x3x1,3	22,2	554
ID5944	10x3x1,3	25,5	678
ID5945	12x3x1,3	26,6	801
ID5946	16x3x1,3	30,2	1059
ID5947	20x3x1,3	33,6	1336
ID5948	24x3x1,3	37,7	1576
ID5949	1x3x1,5	8,2	96
ID5950	2x3x1,5	14,4	218
ID5951	4x3x1,5	17,1	326
ID5952	5x3x1,5	18,8	400
ID5953	6x3x1,5	20,8	491
ID5954	8x3x1,5	23,3	591
ID5955	10x3x1,5	27,0	738
ID5956	12x3x1,5	28,1	869
ID5957	16x3x1,5	31,9	1148
ID5958	20x3x1,5	35,5	1447
ID5959	24x3x1,5	39,9	1705

*Outer diameter tolerance: +/-5%

Cable Factory BITNER reserves the right to modify the specifications without prior notice

Note: on customer's request other cross sections or number of cores can be produced