

BiT RE-2Y(St)YSWAY-FR

Steel wire armoured and PVC sheathed instrumentation cables with collective electrostatic screen, rated 500 V



industrial application



internal application



external application



underground installation



EN 60332-1-2



EN 60332-3-24



data transmission



UV resistance

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: 10 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)

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

aluminum backed polyester tape with stranded tinned copper drain wire underneath (0,5 mm²)

PVC compound

round galvanized steel wires

Screen:

Inner sheath:

Armour:

Outer sheath:

PVC compound, 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:

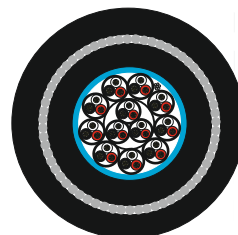
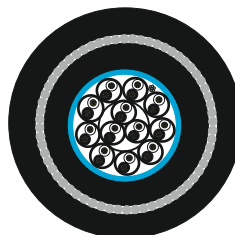
Cables designed for data transmission in numerical control systems ensuring optimum transmission of data up to 200 Kbit/s. Collective electrostatic screen protects against external interferences. Cables are suitable for application indoor and outdoor, in dry and damp rooms and also for direct burial as well as in conduits in places that are subject to mechanical stresses mainly from tensile forces. Outer sheath is UV resistant. Cables classified according to **EN 50575 (CPR)**.

* Available also with XLPE insulation – BiT RE-2X(St)YSWAY-FR

** Cables with blue sheath have got extended catalogue numbers ending -06. E.g. Catalogue no. for BiT RE-2Y(St)YSWAY-FR 1x2x0,5 with black outer sheath is ID5550. Catalogue no. for IB-BiT RE-2Y(St)YSWAY 1x2x0,5 with blue outer sheath is ID5550.06. Cables are available also with oil resistant outer sheath (-OR ending). Catalogue no. for BiT RE-2Y(St)YSWAY-OR 1x2x0,5 is ID5550.0R

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	Inner diameter [mm]	Outer diameter* [mm]	Approximate cable weight [kg/km]
ID5550	1x2x0,5	6,1	10,7	269
ID5551	2x2x0,5	9,5	14,1	412
ID5552	4x2x0,5	10,9	15,7	491
ID5553	5x2x0,5	12,2	17,0	561
ID5554	6x2x0,5	13,0	17,8	598
ID5555	8x2x0,5	14,3	19,1	676
ID5556	10x2x0,5	16,2	21,2	793
ID5557	12x2x0,5	16,8	21,8	847
ID5558	16x2x0,5	19,0	24,0	989
ID5559	20x2x0,5	21,2	26,4	1254
ID5560	24x2x0,5	23,4	29,0	1409
ID5561	1x2x0,75	6,6	11,2	292
ID5562	2x2x0,75	10,3	15,1	466
ID5563	4x2x0,75	12,2	17,0	564
ID5564	5x2x0,75	13,3	18,1	633
ID5565	6x2x0,75	14,3	19,1	682
ID5566	8x2x0,75	15,9	20,9	801
ID5567	10x2x0,75	17,8	22,8	913
ID5568	12x2x0,75	18,5	23,5	981
ID5569	16x2x0,75	21,1	26,7	1286
ID5570	20x2x0,75	23,6	29,2	1488
ID5571	24x2x0,75	26,0	32,2	1814
ID5572	1x2x1,0	7,1	11,7	325
ID5573	2x2x1,0	10,9	15,7	509
ID5574	4x2x1,0	12,8	17,6	611
ID5575	5x2x1,0	14,1	18,9	690
ID5576	6x2x1,0	15,1	19,9	742
ID5577	8x2x1,0	16,8	21,8	877
ID5578	10x2x1,0	18,8	23,8	1005
ID5579	12x2x1,0	19,7	24,7	1102
ID5580	16x2x1,0	22,3	27,9	1426
ID5581	20x2x1,0	24,9	30,7	1671
ID5582	24x2x1,0	27,7	33,9	2040
ID5583	1x2x1,3	7,4	12,0	336
ID5584	2x2x1,3	11,6	16,4	544
ID5585	4x2x1,3	13,4	18,2	663
ID5586	5x2x1,3	15,0	20,0	778
ID5587	6x2x1,3	16,0	21,0	842
ID5588	8x2x1,3	17,8	22,8	985
ID5589	10x2x1,3	19,9	25,5	1241
ID5590	12x2x1,3	20,9	26,5	1362
ID5591	16x2x1,3	23,8	29,6	1637
ID5592	20x2x1,3	26,5	32,9	2049
ID5593	24x2x1,3	29,4	35,8	2342
ID5594	1x2x1,5	7,7	12,3	357
ID5595	2x2x1,5	12,1	16,9	582
ID5596	4x2x1,5	14,3	19,3	737
ID5597	5x2x1,5	15,7	20,7	834
ID5598	6x2x1,5	16,8	21,8	903
ID5599	8x2x1,5	18,7	23,9	1072
ID5600	10x2x1,5	21,1	26,7	1350
ID5601	12x2x1,5	21,9	27,7	1475
ID5602	16x2x1,5	25,1	30,9	1772
ID5603	20x2x1,5	27,9	34,3	2213
ID5604	24x2x1,5	30,9	37,7	2641

triple cables

Cat. no.	n x 3 x mm ²	Inner diameter [mm]	Outer diameter* [mm]	Approximate cable weight [kg/km]
ID5605	1x3x0,5	6,4	11,0	278
ID5606	2x3x0,5	11,1	15,9	494
ID5607	4x3x0,5	13,2	18,0	588
ID5608	5x3x0,5	14,5	19,3	662
ID5609	6x3x0,5	15,9	20,7	739
ID5610	8x3x0,5	18,0	23,0	868
ID5611	10x3x0,5	20,6	25,6	999
ID5612	12x3x0,5	21,3	26,7	1169
ID5613	16x3x0,5	24,2	29,8	1402
ID5614	20x3x0,5	26,7	32,7	1749
ID5615	24x3x0,5	30,0	36,6	2138
ID5616	1x3x0,75	7,2	11,8	314
ID5617	2x3x0,75	12,2	17,0	552
ID5618	4x3x0,75	14,5	19,3	670
ID5619	5x3x0,75	16,0	20,8	758
ID5620	6x3x0,75	17,7	22,7	877
ID5621	8x3x0,75	19,8	24,8	1005
ID5622	10x3x0,75	22,9	28,3	1287
ID5623	12x3x0,75	23,7	29,3	1396
ID5624	16x3x0,75	26,9	32,9	1800
ID5625	20x3x0,75	29,7	36,3	2233
ID5626	24x3x0,75	33,5	40,1	2546
ID5627	1x3x1,0	7,5	12,1	333
ID5628	2x3x1,0	13,1	17,9	609
ID5629	4x3x1,0	15,3	20,1	731
ID5630	5x3x1,0	16,8	21,8	842
ID5631	6x3x1,0	18,7	23,7	965
ID5632	8x3x1,0	20,9	25,9	1112
ID5633	10x3x1,0	24,2	29,8	1438
ID5634	12x3x1,0	25,0	30,6	1551
ID5635	16x3x1,0	28,5	34,7	2023
ID5636	20x3x1,0	31,6	38,2	2515
ID5638	1x3x1,3	7,8	12,4	356
ID5639	2x3x1,3	13,7	18,5	657
ID5640	4x3x1,3	16,3	21,3	829
ID5641	5x3x1,3	17,9	22,9	946
ID5642	6x3x1,3	19,8	24,8	1086
ID5643	8x3x1,3	22,2	27,8	1377
ID5644	10x3x1,3	25,7	31,9	1760
ID5645	12x3x1,3	26,6	32,8	1903
ID5646	16x3x1,3	30,2	37,0	2459
ID5647	20x3x1,3	33,6	40,4	2929
ID5649	1x3x1,5	8,1	12,7	370
ID5650	2x3x1,5	14,4	19,2	689
ID5651	4x3x1,5	17,1	22,1	871
ID5652	5x3x1,5	18,8	23,8	996
ID5653	6x3x1,5	20,8	26,0	1158
ID5654	8x3x1,5	23,5	29,1	1471
ID5655	10x3x1,5	27,0	33,2	1857
ID5656	12x3x1,5	28,1	34,3	2031
ID5657	16x3x1,5	31,9	38,7	2623

*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