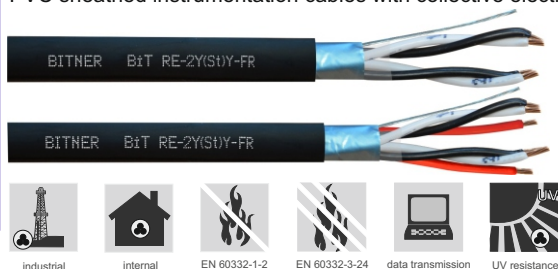


BiT RE-2Y(St)Y-FR



PVC sheathed 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

Technical data:

Thermal parameters:

Temperature range:
operating temperature: -40 °C to 80 °C
min. installation temperature: -5 °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
Insulation:	polyethylene (PE)*
Core identification:	
<u>Pairs:</u>	core A – black, core B – white (black numbering on the white core)
<u>Triples:</u>	core A – black, core B – white, core C – red (black numbering on the white core)
Core arrangement:	
<u>Pairs:</u>	cores twisted in pairs, pairs twisted together and wrapped with polyester tape (PET)
<u>Triples:</u>	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 mm ²)
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:

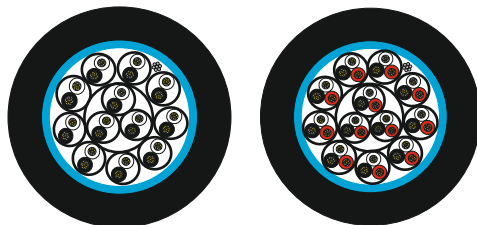
Cables designed for data transmission in numerical control systems ensuring optimum transmission of data up to 200 Kbit/s. Collective electrostatic screen protects against external interferences. Cables are suitable for application indoor and in dry and damp rooms. Outer sheath is UV resistant. Cables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

* Available also with XLPE insulation – BiT RE-2X(Si)Y-FR

** Cables with blue sheath have got extended catalogue numbers ending -06. E.g. Catalogue no. for BiT RE-2Y(Si)Y-FR 1x2x0,5 with black outer sheath is ID5000 Catalogue no. for IB-BiT RE-2Y(Si)Y 1x2x0,5 with blue outer sheath is ID5000.06. Cables are available also with oil resistant outer sheath (-OR ending). Catalogue no. for BiT RE-2Y(Si)Y-OR 1x2x0,5 is ID5000.OR

Electrical parameters:

	Capacitance [nF/km]	Conductor resistance [Ω/km]	Inductivity 1 mH/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		



BIT RE-2Y(St)Y-FR

PVC sheathed instrumentation cables with collective electrostatic screen, rated 500 V

paired cables

Cat. no.	n x 2 x mm ²	Outer diameter* [mm]	Approximate cable weight [kg/km]
ID5000	1x2x0,5	6,2	44
ID5001	2x2x0,5	9,7	88
ID5002	4x2x0,5	11,0	69
ID5003	5x2x0,5	12,3	146
ID5004	6x2x0,5	13,1	161
ID5005	8x2x0,5	14,4	199
ID5006	10x2x0,5	16,3	247
ID5007	12x2x0,5	16,9	282
ID5008	16x2x0,5	19,1	356
ID5009	20x2x0,5	21,3	445
ID5010	24x2x0,5	23,5	521
ID5011	1x2x0,75	6,7	52
ID5012	2x2x0,75	10,5	108
ID5013	4x2x0,75	12,3	149
ID5014	5x2x0,75	13,4	184
ID5015	6x2x0,75	14,4	204
ID5016	8x2x0,75	16,0	262
ID5017	10x2x0,75	17,9	316
ID5018	12x2x0,75	18,6	363
ID5019	16x2x0,75	21,2	473
ID5020	20x2x0,75	23,7	584
ID5021	24x2x0,75	26,0	685
ID5022	1x2x1,0	7,2	63
ID5023	2x2x1,0	11,1	124
ID5024	4x2x1,0	12,9	176
ID5025	5x2x1,0	14,2	218
ID5026	6x2x1,0	15,2	242
ID5027	8x2x1,0	16,9	312
ID5028	10x2x1,0	18,9	378
ID5029	12x2x1,0	19,8	446
ID5030	16x2x1,0	22,4	570
ID5031	20x2x1,0	25,0	706
ID5032	24x2x1,0	27,8	845
ID5033	1x2x1,3	7,5	72
ID5034	2x2x1,3	11,8	148
ID5035	4x2x1,3	13,5	210
ID5036	5x2x1,3	15,1	268
ID5037	6x2x1,3	16,1	300
ID5038	8x2x1,3	17,9	387
ID5039	10x2x1,3	20,0	470
ID5040	12x2x1,3	21,0	555
ID5041	16x2x1,3	23,8	712
ID5042	20x2x1,3	26,5	881
ID5043	24x2x1,3	29,5	1054
ID5044	1x2x1,5	7,8	76
ID5045	2x2x1,5	12,3	158
ID5046	4x2x1,5	14,4	231
ID5047	5x2x1,5	15,8	286
ID5048	6x2x1,5	16,9	320
ID5049	8x2x1,5	18,8	413
ID5050	10x2x1,5	21,2	512
ID5051	12x2x1,5	22,0	592
ID5052	16x2x1,5	25,2	773
ID5053	20x2x1,5	28,0	955
ID5054	24x2x1,5	31,0	1126

triple cables

Cat. no.	n x 3 x mm ²	Outer diameter* [mm]	Approximate cable weight [kg/km]
ID5055	1x3x0,5	6,5	52
ID5056	2x3x0,5	11,1	117
ID5057	4x3x0,5	13,2	164
ID5058	5x3x0,5	14,5	200
ID5059	6x3x0,5	15,9	238
ID5060	8x3x0,5	18,0	295
ID5061	10x3x0,5	20,6	350
ID5062	12x3x0,5	21,3	400
ID5063	16x3x0,5	24,2	535
ID5064	20x3x0,5	26,7	660
ID5065	24x3x0,5	30,0	763
ID5066	1x3x0,75	7,2	67
ID5067	2x3x0,75	12,2	144
ID5068	4x3x0,75	14,5	208
ID5069	5x3x0,75	16,0	254
ID5070	6x3x0,75	17,7	313
ID5071	8x3x0,75	19,8	378
ID5072	10x3x0,75	22,9	462
ID5073	12x3x0,75	23,7	531
ID5074	16x3x0,75	26,9	701
ID5075	20x3x0,75	29,7	871
ID5076	24x3x0,75	33,5	1026
ID5077	1x3x1,0	7,5	77
ID5078	2x3x1,0	13,1	175
ID5079	4x3x1,0	15,3	247
ID5080	5x3x1,0	16,8	303
ID5081	6x3x1,0	18,7	370
ID5082	8x3x1,0	20,9	453
ID5083	10x3x1,0	24,0	543
ID5084	12x3x1,0	25,0	641
ID5085	16x3x1,0	28,5	849
ID5086	20x3x1,0	31,6	1072
ID5087	24x3x1,0	35,4	1246
ID5088	1x3x1,3	7,8	90
ID5089	2x3x1,3	13,7	204
ID5090	4x3x1,3	16,3	306
ID5091	5x3x1,3	17,9	375
ID5092	6x3x1,3	19,8	454
ID5093	8x3x1,3	22,2	563
ID5094	10x3x1,3	25,5	678
ID5095	12x3x1,3	26,6	801
ID5096	16x3x1,3	30,2	1059
ID5097	20x3x1,3	33,6	1336
ID5098	24x3x1,3	37,7	1576
ID5099	1x3x1,5	8,2	96
ID5100	2x3x1,5	14,4	218
ID5101	4x3x1,5	17,1	326
ID5102	5x3x1,5	18,8	400
ID5103	6x3x1,5	20,8	483
ID5104	8x3x1,5	23,3	601
ID5105	10x3x1,5	27,0	738
ID5106	12x3x1,5	28,1	869
ID5107	16x3x1,5	31,9	1148
ID5108	20x3x1,5	35,5	1447
ID5109	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