

BiT RE-2Y(St)Yv-FR



PVC sheathed instrumentation cables with collective electrostatic screen and reinforced outer sheath, rated 500 V



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
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:

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:

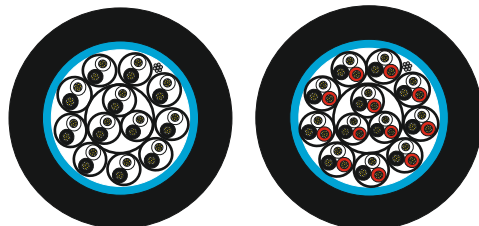
Cables designed for data transmission in numerical control systems ensuring optimum transmission of data up to 200 Kbit/s. Collective electrostatic screen protects against external interferences. Cables are suitable for application indoor and outdoor, in dry and damp rooms as well as for direct burial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

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

** Cables with blue sheath have got extended catalogue numbers ending -06. E.g. Catalogue no. for BiT RE-2Y(St)Yv-FR 1x2x0,5 with black outer sheath is ID5150; Catalogue no. for IB-BiT RE-2Y(St)Yv 1x2x0,5 with blue outer sheath is ID5150.06. Cables are available also with oil resistant outer sheath (-OR ending). Catalogue no. for BiT RE-2Y(St)Yv-OR 1x2x0,5 is ID5150.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		



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paired cables

Cat. no.	n x 2 x mm ²	Outer diameter* [mm]	Approximate cable weight [kg/km]
ID5150	1x2x0,5	8,2	82
ID5151	2x2x0,5	11,5	135
ID5152	4x2x0,5	12,8	168
ID5153	5x2x0,5	13,9	198
ID5154	6x2x0,5	14,7	216
ID5155	8x2x0,5	16,0	259
ID5156	10x2x0,5	17,7	306
ID5157	12x2x0,5	18,3	342
ID5158	16x2x0,5	20,5	424
ID5159	20x2x0,5	22,5	505
ID5160	24x2x0,5	24,7	587
ID5161	1x2x0,75	8,7	92
ID5162	2x2x0,75	12,3	159
ID5163	4x2x0,75	13,9	201
ID5164	5x2x0,75	15,0	241
ID5165	6x2x0,75	16,0	264
ID5166	8x2x0,75	17,4	320
ID5167	10x2x0,75	19,3	380
ID5168	12x2x0,75	20,0	429
ID5169	16x2x0,75	22,4	537
ID5170	20x2x0,75	24,7	644
ID5171	24x2x0,75	27,1	752
ID5172	1x2x1,0	9,0	101
ID5173	2x2x1,0	12,9	177
ID5174	4x2x1,0	14,5	230
ID5175	5x2x1,0	15,8	277
ID5176	6x2x1,0	16,8	305
ID5177	8x2x1,0	18,3	373
ID5178	10x2x1,0	20,3	446
ID5179	12x2x1,0	21,0	507
ID5180	16x2x1,0	23,6	639
ID5181	20x2x1,0	26,0	769
ID5182	24x2x1,0	28,6	901
ID5183	1x2x1,3	9,3	111
ID5184	2x2x1,3	13,4	198
ID5185	4x2x1,3	15,1	267
ID5186	5x2x1,3	16,5	322
ID5187	6x2x1,3	17,5	358
ID5188	8x2x1,3	19,1	442
ID5189	10x2x1,3	21,2	531
ID5190	12x2x1,3	22,0	608
ID5191	16x2x1,3	24,8	772
ID5192	20x2x1,3	27,3	934
ID5193	24x2x1,3	30,1	1098
ID5194	1x2x1,5	9,6	117
ID5195	2x2x1,5	13,9	210
ID5196	4x2x1,5	15,8	283
ID5197	5x2x1,5	17,2	343
ID5198	6x2x1,5	18,3	381
ID5199	8x2x1,5	20,0	471
ID5200	10x2x1,5	22,2	566
ID5201	12x2x1,5	23,0	648
ID5202	16x2x1,5	26,0	824
ID5203	20x2x1,5	28,6	997
ID5204	24x2x1,5	31,6	1173

triple cables

Cat. no.	n x 3 x mm ²	Outer diameter* [mm]	Approximate cable weight [kg/km]
ID5205	1x3x0,5	8,5	90
ID5206	2x3x0,5	12,9	174
ID5207	4x3x0,5	14,8	220
ID5208	5x3x0,5	16,1	261
ID5209	6x3x0,5	17,5	304
ID5210	8x3x0,5	19,4	360
ID5211	10x3x0,5	22,0	423
ID5212	12x3x0,5	22,7	476
ID5213	16x3x0,5	25,4	595
ID5214	20x3x0,5	27,9	741
ID5215	24x3x0,5	31,0	839
ID5216	1x3x0,75	9,0	103
ID5217	2x3x0,75	14,0	205
ID5218	4x3x0,75	16,1	269
ID5219	5x3x0,75	17,6	320
ID5220	6x3x0,75	19,1	377
ID5221	8x3x0,75	21,2	449
ID5222	10x3x0,75	24,1	532
ID5223	12x3x0,75	24,9	603
ID5224	16x3x0,75	27,9	769
ID5225	20x3x0,75	30,7	946
ID5226	24x3x0,75	34,3	1093
ID5227	1x3x1,0	9,3	114
ID5228	2x3x1,0	14,7	232
ID5229	4x3x1,0	16,9	311
ID5230	5x3x1,0	18,4	372
ID5231	6x3x1,0	20,1	439
ID5232	8x3x1,0	22,3	528
ID5233	10x3x1,0	25,4	629
ID5234	12x3x1,0	26,2	717
ID5235	16x3x1,0	29,5	920
ID5236	20x3x1,0	32,4	1136
ID5237	24x3x1,0	36,2	1317
ID5238	1x3x1,3	9,7	129
ID5239	2x3x1,3	15,3	264
ID5240	4x3x1,3	17,7	364
ID5241	5x3x1,3	19,3	439
ID5242	6x3x1,3	21,0	520
ID5243	8x3x1,3	23,4	631
ID5244	10x3x1,3	26,7	756
ID5245	12x3x1,3	27,6	868
ID5246	16x3x1,3	31,0	1119
ID5247	20x3x1,3	34,2	1386
ID5248	24x3x1,3	38,1	1613
ID5249	1x3x1,5	10,0	136
ID5250	2x3x1,5	16,0	280
ID5251	4x3x1,5	18,5	387
ID5252	5x3x1,5	20,2	468
ID5253	6x3x1,5	22,0	554
ID5254	8x3x1,5	24,5	672
ID5255	10x3x1,5	28,0	806
ID5256	12x3x1,5	28,9	926
ID5257	16x3x1,5	32,5	1196
ID5258	20x3x1,5	36,1	1500
ID5259	24x3x1,5	40,5	1765

*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