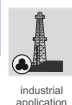
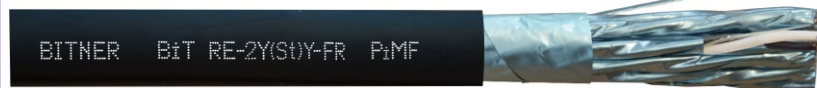


# BIT RE-2Y(St)Y-FR PiMF

PVC sheathed instrumentation cables with collective electrostatic screen and individually screened pairs, 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

### Insulation:

polyethylene (PE)\*

### Core identification:

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

### Core arrangement:

screened pairs twisted together

### Individual screen:

each pair screened with aluminum backed polyester tape and drain wire (0,6 mm) under each screen

### Collective screen:

aluminum backed polyester tape with stranded tinned copper drain wire underneath (0,5 mm<sup>2</sup>)

### 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:

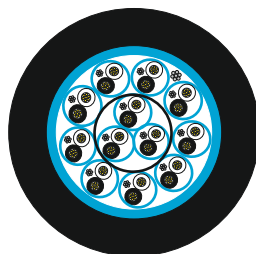
Cables designed for data transmission in numerical control systems ensuring optimum transmission of data up to 200 Kbit/s. Screened pairs twisted together ensure very good crosstalk attenuation and collective electrostatic screen protects against external interferences. Cables are suitable for application 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 PiMF

\*\*Cables with blue sheath have got extended catalogue numbers ending -06. E.g. Catalogue no. for BIT RE-2Y(Si)Y-FR PiMF 2x2x0,5 with black outer sheath is ID5280. Catalogue no. for IB-BIT RE-2Y(Si)Y PiMF 2x2x0,5 with blue outer sheath is ID5280.06. Cables are available also with oil resistant outer sheath (-OR ending). Catalogue no. for BIT RE-2Y(Si)Y-OR PiMF 2x2x0,5 OR is ID5280.OR.

### Electrical parameters:

	Capacitance [nF/km]	Conductor resistance [Ω/km]	Inductivity 1mH/km L/R [μH/Ω]
0,5 mm <sup>2</sup>	100	36,7	25
0,75 mm <sup>2</sup>	100	25,0	25
1,0 mm <sup>2</sup>	100	18,5	25
1,3 mm <sup>2</sup>	100	14,2	40
1,5 mm <sup>2</sup>	100	12,3	40



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PVC sheathed instrumentation cables with collective electrostatic screen and individually screened pairs, rated 500 V

Cat. no.	n x 2 x mm <sup>2</sup>	Outer diameter* [mm]	Approximate cable weight [kg/km]
ID5280	2x2x0,5	10,0	100
ID5281	4x2x0,5	11,7	143
ID5282	5x2x0,5	12,8	175
ID5283	6x2x0,5	13,7	195
ID5284	8x2x0,5	15,2	251
ID5285	10x2x0,5	17,2	311
ID5286	12x2x0,5	17,8	356
ID5287	16x2x0,5	20,1	453
ID5288	20x2x0,5	22,4	559
ID5289	24x2x0,5	24,9	669
ID5290	2x2x0,75	11,1	126
ID5291	4x2x0,75	12,7	174
ID5292	5x2x0,75	14,2	221
ID5293	6x2x0,75	15,1	247
ID5294	8x2x0,75	16,6	309
ID5295	10x2x0,75	18,8	383
ID5296	12x2x0,75	19,5	441
ID5297	16x2x0,75	22,3	575
ID5298	20x2x0,75	24,8	711
ID5299	24x2x0,75	27,6	850
ID5300	2x2x1,0	11,6	145
ID5301	4x2x1,0	13,4	201
ID5302	5x2x1,0	14,9	256
ID5303	6x2x1,0	15,9	286
ID5304	8x2x1,0	17,7	369

Cat. no.	n x 2 x mm <sup>2</sup>	Outer diameter* [mm]	Approximate cable weight [kg/km]
ID5305	10x2x1,0	19,8	448
ID5306	12x2x1,0	20,7	528
ID5307	16x2x1,0	23,4	676
ID5308	20x2x1,0	26,2	836
ID5309	24x2x1,0	29,1	1001
ID5310	2x2x1,3	12,2	162
ID5311	4x2x1,3	14,2	242
ID5312	5x2x1,3	15,6	299
ID5313	6x2x1,3	16,9	346
ID5314	8x2x1,3	18,7	446
ID5315	10x2x1,3	20,9	542
ID5316	12x2x1,3	22,0	639
ID5317	16x2x1,3	25,0	834
ID5318	20x2x1,3	27,9	1030
ID5319	24x2x1,3	30,9	1230
ID5320	2x2x1,5	12,7	173
ID5321	4x2x1,5	14,8	257
ID5322	5x2x1,5	16,5	326
ID5323	6x2x1,5	17,6	367
ID5324	8x2x1,5	19,6	474
ID5325	10x2x1,5	22,1	587
ID5326	12x2x1,5	23,0	679
ID5327	16x2x1,5	26,2	886
ID5328	20x2x1,5	29,2	1095
ID5329	24x2x1,5	32,4	1308

\*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