

BiT 1000[®]2(St) FR

Flexible, individually and collectively screened, highly flame retardant control cables, rated 0,6/1 kV



industrial application



internal application



external application



underground installation



EN 60332-1-2



EN 60332-3



oxygen index



high flexibility



UV resistance

Technical data:

Thermal parameters:

Operating temperature:

fixed installation: -40 °C to 80 °C
flexible connections: -5 °C to 80 °C

Electrical parameters:

Operating voltage: $U_0/U=0,6/1kV$

Test voltage (50Hz): 4000V

Insulation resistance: 20MΩxkm

Mechanical parameters:

Min. bending radius:

flexible connections: 12xØ
fixed installation: 6xØ

Design:

Conductors:

bare copper conductors, multi-stranded class 5 acc. to EN 60228

special PVC

Insulation:

black, numbered conductors

Core arrangement: twisted screened pairs

Individual screen: aluminium backed polyester tape with tinned copper drain wire

Collective screen: aluminium backed polyester tape with tinned copper drain wire

Outer sheath: special PVC, oil resistant (see table of chemical resistance), self-extinguishing and flame retardant (acc. to EN 60332-1-2, EN 60332-3-24, IEC 60332-3 cat. C), UV resistant, LOI>29; colour: black

Application:

BiT 1000[®]2(St) FR cables are designed for connections in control and signalling circuits, as well as in places exposed to vibrations. Insulation compounds and construction of BiT 1000[®]2(St) FR cable enable easy and fast connections and ensure their high durability. They are suitable for operation in dry and damp rooms, outdoor installations (outer sheath is UV resistant) as well as **direct burial in ground**. Designed especially for installation in industrial areas with increased fire safety requirements (limited flame propagation).

Cables classified according to **EN 50575 (CPR)**.

Cat. no.	n x mm ²	Outer diameter* [mm]	Approximate cable weight [kg/km]
BS1160	2x2x0,5	11,2	155
BS1161	3x2x0,5	12,4	176
BS1162	4x2x0,5	13,8	215
BS1163	5x2x0,5	14,3	255
BS1164	6x2x0,5	14,7	275
BS1165	7x2x0,5	16,4	315
BS1166	8x2x0,5	17,1	350
BS1167	10x2x0,5	18,3	415
BS1168	12x2x0,5	19,9	480
BS1169	14x2x0,5	21,1	545
BS1170	16x2x0,5	22,7	635
BS1171	18x2x0,5	23,6	685
BS1172	20x2x0,5	24,6	750
BS1173	24x2x0,5	26,5	875
BS1174	2x2x0,75	11,9	173
BS1175	3x2x0,75	13,1	200
BS1176	4x2x0,75	14,7	246
BS1177	5x2x0,75	15,2	295
BS1178	6x2x0,75	15,7	320
BS1179	7x2x0,75	17,5	365
BS1180	8x2x0,75	18,2	405
BS1181	10x2x0,75	19,5	485
BS1182	12x2x0,75	21,3	565
BS1183	14x2x0,75	22,8	650
BS1184	16x2x0,75	24,3	745
BS1185	18x2x0,75	25,3	805
BS1186	20x2x0,75	26,5	895
BS1187	24x2x0,75	28,6	1045

Cat. no.	n x mm ²	Outer diameter* [mm]	Approximate cable weight [kg/km]
BS1188	2x2x1,0	12,3	198
BS1189	3x2x1,0	13,7	229
BS1190	4x2x1,0	15,3	280
BS1191	5x2x1,0	15,9	345
BS1192	6x2x1,0	16,4	370
BS1193	7x2x1,0	18,3	425
BS1194	8x2x1,0	19,1	475
BS1195	10x2x1,0	20,4	565
BS1196	12x2x1,0	22,3	665
BS1197	14x2x1,0	23,9	765
BS1198	16x2x1,0	25,7	890
BS1199	18x2x1,0	26,8	965
BS1200	20x2x1,0	27,9	1055
BS1201	24x2x1,0	30,0	1240
BS1202	2x2x1,5	13,6	238
BS1203	3x2x1,5	15,2	275
BS1204	4x2x1,5	17,0	345
BS1205	5x2x1,5	17,7	425
BS1206	6x2x1,5	18,3	460
BS1207	7x2x1,5	20,4	530
BS1208	8x2x1,5	21,4	595
BS1209	10x2x1,5	23,1	720
BS1210	12x2x1,5	25,3	845
BS1211	14x2x1,5	27,0	980
BS1212	16x2x1,5	29,1	1140
BS1213	18x2x1,5	30,3	1235
BS1214	20x2x1,5	31,6	1350
BS1215	24x2x1,5	34,3	1605

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Cat. no.	nx2xmm ²	Outer diameter* [mm]	Approximate cable weight [kg/km]
BS1217	2x2x2,5	15,4	305
BS1218	3x2x2,5	17,2	360
BS1219	4x2x2,5	19,4	450
BS1220	5x2x2,5	20,1	565
BS1221	6x2x2,5	20,9	610

Cat. no.	nx2xmm ²	Outer diameter* [mm]	Approximate cable weight [kg/km]
BS1222	7x2x2,5	23,6	720
BS1223	8x2x2,5	24,7	805
BS1224	10x2x2,5	26,7	980
BS1225	12x2x2,5	29,5	1165
BS1226	14x2x2,5	31,3	1335
BS1227	16x2x2,5	33,7	1550

*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

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