

# BiT 1000<sup>°C</sup> OR

Flexible, screened, highly flame retardant, oil resistant control and power supply cables, rated 0,6/1 kV



industrial application



internal application



external application



underground installation



EN 60332-1-2



EN 60332-3-24



oxygen index



high flexibility

oil resistant  
EN 60811-404

UV resistance



EMC



hydrocarbon resistant



RoHS 2015/863/EU



LVD 2014/35/EU



CPR 305/2011



24 months warranty

## Technical data:

### Thermal parameters:

#### Operating temperature:

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

### Electrical parameters:

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

**Test voltage (50 Hz):** 4000 V

**Insulation resistance:** 20 MΩxkm

### Mechanical parameters:

#### Min. bending radius:

flexible connections: 12 x  $\varnothing$   
fixed installation: 6 x  $\varnothing$

## Design:

### Conductors:

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

### Insulation:

PVC compound

### Core identification:

black, number coded conductors, cables with protective earth conductor marked G (e.g. 7G1,5)

### Core arrangement:

cores twisted together or pairs twisted together

### Screen:

tinned copper wire braid, coverage  $\geq 85\%$

### Outer sheath:

PVC compound, oil resistant (EN 60811-404), self-extinguishing and flame retardant (acc. to EN 60332-1-2, EN 60332-3-24, cat. C), UV resistant, LOI>29; colour: black

## Application:

BiT 1000<sup>°C</sup> OR cables are designed for connections in control and signalling circuits, as power supply cables for mobile and portable devices in places exposed to vibrations. Insulation compounds and construction of BiT 1000<sup>°C</sup> OR cable enable easy and fast connections and ensure their high durability. They are suitable for fixed installations and for flexible connections in industrial devices, technological lines and machines operating in dry and damp rooms, especially in applications in places with increased fire safety requirements (limited flame propagation) and in places exposed to oil or industrial coolants. Cables suitable for outdoor installation - outer sheath is UV resistant. **Cables designed also for direct burial in ground.** Properly connected screen ensures full electromagnetic compatibility (EMC). Cables classified according to **EN 50575 (CPR)**.

| Cat. no. | n x mm <sup>2</sup> | Outer diameter* [mm] | Approximate cable weight [kg/km] |
|----------|---------------------|----------------------|----------------------------------|
| BS1300   | 2x0,5               | 8,6                  | 100                              |
| BS1301   | 3G0,5               | 9,0                  | 110                              |
| BS1302   | 3x0,5               | 9,0                  | 110                              |
| BS1303   | 4G0,5               | 9,6                  | 127                              |
| BS1304   | 4x0,5               | 9,6                  | 127                              |
| BS1305   | 5G0,5               | 10,2                 | 147                              |
| BS1306   | 5x0,5               | 10,2                 | 147                              |
| BS1307   | 6G0,5               | 11,0                 | 170                              |
| BS1308   | 7G0,5               | 11,0                 | 174                              |
| BS1309   | 7x0,5               | 11,0                 | 174                              |
| BS1310   | 8G0,5               | 11,9                 | 199                              |
| BS1311   | 8x0,5               | 11,9                 | 199                              |
| BS1312   | 10G0,5              | 13,7                 | 250                              |
| BS1313   | 12G0,5              | 13,7                 | 255                              |
| BS1314   | 12x0,5              | 13,7                 | 155                              |
| BS1315   | 14G0,5              | 14,2                 | 285                              |
| BS1316   | 16G0,5              | 14,9                 | 315                              |
| BS1317   | 18G0,5              | 15,7                 | 350                              |
| BS1318   | 19G0,5              | 15,7                 | 350                              |
| BS1319   | 21G0,5              | 16,4                 | 385                              |
| BS1320   | 25G0,5              | 18,4                 | 460                              |
| BS1321   | 30G0,5              | 19,0                 | 505                              |
| BS1322   | 34G0,5              | 20,4                 | 585                              |
| BS1323   | 37G0,5              | 20,4                 | 595                              |
| BS1324   | 42G0,5              | 22,9                 | 700                              |
| BS1325   | 52G0,5              | 23,8                 | 800                              |
| BS1326   | 61G0,5              | 25,5                 | 925                              |

| Cat. no. | n x mm <sup>2</sup> | Outer diameter* [mm] | Approximate cable weight [kg/km] |
|----------|---------------------|----------------------|----------------------------------|
| BS1327   | 2x0,75              | 9,0                  | 110                              |
| BS1328   | 3G0,75              | 9,4                  | 124                              |
| BS1329   | 3x0,75              | 9,4                  | 124                              |
| BS1330   | 4G0,75              | 10,1                 | 145                              |
| BS1331   | 4x0,75              | 10,1                 | 145                              |
| BS1332   | 5G0,75              | 10,8                 | 170                              |
| BS1333   | 5x0,75              | 10,8                 | 170                              |
| BS1334   | 6G0,75              | 11,6                 | 194                              |
| BS1335   | 6x0,75              | 11,6                 | 194                              |
| BS1336   | 7G0,75              | 11,6                 | 201                              |
| BS1337   | 7x0,75              | 11,6                 | 201                              |
| BS1338   | 8G0,75              | 12,6                 | 234                              |
| BS1339   | 8x0,75              | 12,6                 | 234                              |
| BS1340   | 10G0,75             | 14,5                 | 285                              |
| BS1341   | 12G0,75             | 14,5                 | 300                              |
| BS1342   | 12x0,75             | 14,5                 | 300                              |
| BS1343   | 14G0,75             | 15,1                 | 335                              |
| BS1344   | 16G0,75             | 15,9                 | 375                              |
| BS1345   | 18G0,75             | 16,7                 | 410                              |
| BS1346   | 19G0,75             | 16,7                 | 420                              |
| BS1347   | 21G0,75             | 17,4                 | 460                              |
| BS1348   | 25G0,75             | 19,6                 | 545                              |
| BS1349   | 30G0,75             | 20,2                 | 605                              |
| BS1350   | 34G0,75             | 21,8                 | 695                              |
| BS1351   | 37G0,75             | 21,8                 | 715                              |
| BS1352   | 42G0,75             | 24,5                 | 835                              |
| BS1353   | 52G0,75             | 25,7                 | 980                              |
| BS1354   | 61G0,75             | 27,3                 | 1120                             |

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| Cat. no. | n x mm <sup>2</sup> | Outer diameter* [mm] | Approximate cable weight [kg/km] |
|----------|---------------------|----------------------|----------------------------------|
| BS1355   | 2x1,0               | 9,3                  | 121                              |
| BS1356   | 3G1,0               | 9,7                  | 134                              |
| BS1357   | 3x1,0               | 9,7                  | 134                              |
| BS1358   | 4G1,0               | 10,4                 | 160                              |
| BS1359   | 4x1,0               | 10,4                 | 160                              |
| BS1360   | 5G1,0               | 11,2                 | 187                              |
| BS1361   | 5x1,0               | 11,2                 | 187                              |
| BS1362   | 6G1,0               | 12,0                 | 217                              |
| BS1363   | 6x1,0               | 12,0                 | 217                              |
| BS1364   | 7G1,0               | 12,0                 | 225                              |
| BS1365   | 7x1,0               | 12,0                 | 225                              |
| BS1366   | 8G1,0               | 13,1                 | 260                              |
| BS1367   | 10G1,0              | 15,1                 | 325                              |
| BS1368   | 10x1,0              | 15,1                 | 325                              |
| BS1369   | 12G1,0              | 15,1                 | 340                              |
| BS1370   | 12x1,0              | 15,1                 | 340                              |
| BS1371   | 14G1,0              | 15,8                 | 380                              |
| BS1372   | 16G1,0              | 16,6                 | 425                              |
| BS1373   | 18G1,0              | 17,4                 | 470                              |
| BS1375   | 19G1,0              | 17,4                 | 475                              |
| BS1376   | 21G1,0              | 18,2                 | 525                              |
| BS1377   | 25G1,0              | 20,5                 | 625                              |
| BS1378   | 30G1,0              | 21,2                 | 695                              |
| BS1379   | 34G1,0              | 23,0                 | 815                              |
| BS1380   | 37G1,0              | 23,0                 | 835                              |
| BS1381   | 42G1,0              | 25,9                 | 980                              |
| BS1382   | 52G1,0              | 27,0                 | 1135                             |
| BS1383   | 61G1,0              | 28,8                 | 1310                             |
| BS1384   | 2x1,5               | 10,1                 | 143                              |
| BS1385   | 3G1,5               | 10,6                 | 152                              |
| BS1386   | 3x1,5               | 10,6                 | 152                              |
| BS1387   | 4G1,5               | 11,4                 | 196                              |
| BS1388   | 4x1,5               | 11,4                 | 196                              |
| BS1389   | 5G1,5               | 12,3                 | 234                              |
| BS1390   | 5x1,5               | 12,3                 | 234                              |
| BS1391   | 6G1,5               | 13,2                 | 270                              |
| BS1392   | 6x1,5               | 13,2                 | 270                              |
| BS1393   | 7G1,5               | 13,2                 | 280                              |
| BS1394   | 7x1,5               | 13,2                 | 280                              |
| BS1395   | 8G1,5               | 14,4                 | 320                              |

| Cat. no. | n x mm <sup>2</sup> | Outer diameter* [mm] | Approximate cable weight [kg/km] |
|----------|---------------------|----------------------|----------------------------------|
| BS1396   | 10G1,5              | 16,8                 | 405                              |
| BS1397   | 10x1,5              | 16,8                 | 405                              |
| BS1398   | 12G1,5              | 16,8                 | 430                              |
| BS1399   | 12x1,5              | 16,8                 | 430                              |
| BS1400   | 14G1,5              | 17,5                 | 485                              |
| BS1401   | 16G1,5              | 18,5                 | 545                              |
| BS1402   | 18G1,5              | 19,4                 | 605                              |
| BS1403   | 19G1,5              | 19,4                 | 615                              |
| BS1404   | 21G1,5              | 20,3                 | 675                              |
| BS1405   | 25G1,5              | 23,2                 | 820                              |
| BS1406   | 30G1,5              | 24,0                 | 920                              |
| BS1407   | 34G1,5              | 26,0                 | 1075                             |
| BS1408   | 37G1,5              | 26,0                 | 1105                             |
| BS1409   | 42G1,5              | 29,3                 | 1290                             |
| BS1410   | 52G1,5              | 30,7                 | 1530                             |
| BS1411   | 61G1,5              | 32,8                 | 1770                             |
| BS1412   | 2x2,5               | 11,2                 | 179                              |
| BS1413   | 3G2,5               | 11,7                 | 207                              |
| BS1414   | 3x2,5               | 11,7                 | 207                              |
| BS1415   | 4G2,5               | 12,7                 | 255                              |
| BS1416   | 4x2,5               | 12,7                 | 255                              |
| BS1417   | 5G2,5               | 13,2                 | 305                              |
| BS1418   | 5x2,5               | 13,2                 | 305                              |
| BS1419   | 6G2,5               | 14,9                 | 355                              |
| BS1420   | 6x2,5               | 14,9                 | 355                              |
| BS1421   | 7G2,5               | 14,9                 | 370                              |
| BS1422   | 7x2,5               | 14,9                 | 370                              |
| BS1423   | 10G2,5              | 19,0                 | 550                              |
| BS1424   | 12G2,5              | 19,0                 | 580                              |
| BS1425   | 12x2,5              | 19,0                 | 580                              |
| BS1426   | 14G2,5              | 20,0                 | 660                              |
| BS1427   | 16G2,5              | 21,1                 | 745                              |
| BS1428   | 18G2,5              | 22,4                 | 840                              |
| BS1429   | 21G2,5              | 23,4                 | 945                              |
| BS1430   | 25G2,5              | 26,7                 | 1145                             |
| BS1431   | 30G2,5              | 27,7                 | 1290                             |
| BS1432   | 34G2,5              | 30,3                 | 1530                             |
| BS1433   | 37G2,5              | 30,3                 | 1585                             |
| BS1434   | 42G2,5              | 33,9                 | 1840                             |
| BS1435   | 52G2,5              | 35,8                 | 2175                             |

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## paired cables

| Cat. no. | n x 2 x mm <sup>2</sup> | Outer diameter* [mm] | Approximate cable weight [kg/km] |
|----------|-------------------------|----------------------|----------------------------------|
| BS1445   | 2x2x0,5                 | 11,4                 | 168                              |
| BS1446   | 3x2x0,5                 | 12,6                 | 184                              |
| BS1447   | 4x2x0,5                 | 13,5                 | 217                              |
| BS1448   | 5x2x0,5                 | 14,5                 | 260                              |
| BS1449   | 6x2x0,5                 | 14,9                 | 275                              |
| BS1450   | 7x2x0,5                 | 16,6                 | 315                              |
| BS1451   | 8x2x0,5                 | 17,3                 | 340                              |
| BS1452   | 10x2x0,5                | 18,5                 | 400                              |
| BS1453   | 12x2x0,5                | 19,6                 | 455                              |
| BS1454   | 14x2x0,5                | 20,8                 | 510                              |
| BS1455   | 16x2x0,5                | 22,4                 | 590                              |
| BS1456   | 18x2x0,5                | 23,4                 | 630                              |
| BS1457   | 20x2x0,5                | 24,1                 | 680                              |
| BS1458   | 24x2x0,5                | 24,8                 | 775                              |
| BS1459   | 2x2x0,75                | 12,1                 | 186                              |
| BS1460   | 3x2x0,75                | 13,3                 | 211                              |
| BS1461   | 4x2x0,75                | 14,4                 | 249                              |
| BS1462   | 5x2x0,75                | 15,4                 | 300                              |
| BS1463   | 6x2x0,75                | 15,9                 | 320                              |
| BS1464   | 7x2x0,75                | 17,7                 | 365                              |
| BS1465   | 8x2x0,75                | 18,4                 | 400                              |
| BS1466   | 10x2x0,75               | 19,7                 | 470                              |
| BS1467   | 12x2x0,75               | 21,0                 | 540                              |
| BS1468   | 14x2x0,75               | 22,5                 | 615                              |
| BS1469   | 16x2x0,75               | 24,0                 | 705                              |
| BS1470   | 18x2x0,75               | 25,2                 | 765                              |
| BS1471   | 20x2x0,75               | 26,0                 | 830                              |
| BS1472   | 24x2x0,75               | 26,7                 | 945                              |
| BS1473   | 2x2x1,0                 | 12,5                 | 206                              |
| BS1474   | 3x2x1,0                 | 13,9                 | 233                              |
| BS1475   | 4x2x1,0                 | 15,0                 | 275                              |
| BS1476   | 5x2x1,0                 | 16,1                 | 340                              |
| BS1477   | 6x2x1,0                 | 16,6                 | 360                              |

| Cat. no. | n x 2 x mm <sup>2</sup> | Outer diameter* [mm] | Approximate cable weight [kg/km] |
|----------|-------------------------|----------------------|----------------------------------|
| BS1478   | 7x2x1,0                 | 18,5                 | 410                              |
| BS1479   | 8x2x1,0                 | 19,3                 | 455                              |
| BS1480   | 10x2x1,0                | 20,6                 | 535                              |
| BS1481   | 12x2x1,0                | 22,0                 | 615                              |
| BS1482   | 14x2x1,0                | 23,5                 | 705                              |
| BS1483   | 16x2x1,0                | 25,4                 | 815                              |
| BS1484   | 18x2x1,0                | 26,4                 | 875                              |
| BS1485   | 20x2x1,0                | 27,3                 | 950                              |
| BS1486   | 24x2x1,0                | 28,3                 | 1105                             |
| BS1487   | 2x2x1,5                 | 13,8                 | 250                              |
| BS1488   | 3x2x1,5                 | 15,4                 | 285                              |
| BS1489   | 4x2x1,5                 | 16,6                 | 345                              |
| BS1490   | 5x2x1,5                 | 17,9                 | 425                              |
| BS1491   | 6x2x1,5                 | 18,5                 | 455                              |
| BS1492   | 7x2x1,5                 | 20,6                 | 520                              |
| BS1493   | 8x2x1,5                 | 21,6                 | 575                              |
| BS1494   | 10x2x1,5                | 23,3                 | 695                              |
| BS1495   | 12x2x1,5                | 24,9                 | 800                              |
| BS1496   | 14x2x1,5                | 26,6                 | 920                              |
| BS1497   | 16x2x1,5                | 28,7                 | 1070                             |
| BS1498   | 18x2x1,5                | 30,1                 | 1175                             |
| BS1499   | 20x2x1,5                | 31,3                 | 1290                             |
| BS1500   | 24x2x1,5                | 32,2                 | 1480                             |
| BS1501   | 2x2x2,5                 | 15,6                 | 320                              |
| BS1502   | 3x2x2,5                 | 17,4                 | 370                              |
| BS1503   | 4x2x2,5                 | 18,9                 | 455                              |
| BS1504   | 5x2x2,5                 | 20,3                 | 565                              |
| BS1505   | 6x2x2,5                 | 21,1                 | 610                              |
| BS1506   | 7x2x2,5                 | 23,8                 | 715                              |
| BS1507   | 8x2x2,5                 | 24,9                 | 795                              |
| BS1508   | 10x2x2,5                | 29,6                 | 960                              |
| BS1509   | 12x2x2,5                | 29,0                 | 1125                             |
| BS1510   | 14x2x2,5                | 31,0                 | 1305                             |
| BS1511   | 16x2x2,5                | 33,4                 | 1515                             |

\*Outer diameter tolerance: +/- 5%

Cable Factory BITNER reserves the right to modify the specifications without prior notice

G - cables with green/yellow earthing conductor

x- cables without green/yellow earthing conductor

Note: on customer's request other cross sections or number of cores can be produced