

BiT 1000®(St) 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

IEC 60332-3
EN 60332-3oxygen index
>29

high flexibility

oil resistant
EN 60811-404

UV resistance

hydrocarbon
resistant

LVD 2014/35/EU

CPR

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: $U_i/U_o = 0,6/1$ kV

Test voltage 50 Hz: 4000 V

Insulation resistance: 20 MΩxkm

Mechanical parameters:

Min. bending radius:

flexible connections: 12 x Ø
fixed installation: 6 x Ø

Design:

Conductors:

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

Insulation:

PVC compound

Core identification:

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

Core arrangement:

cores twisted together or pairs twisted together
aluminum backed polyester tape with tinned copper
drain wire

Collective screen:

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

Outer sheath:

Application:

BiT 1000®(St) 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®(St) 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 humid areas, 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 the ground. Cables classified according to **EN 50575 (CPR)**.

Cat. no.	n x mm ²	Outer diameter* [mm]	Approximate cable weight [kg/km]
BS1550	2x0,5	8,4	84
BS1551	3G0,5	8,8	92
BS1552	3x0,5	8,8	92
BS1553	4G0,5	9,4	106
BS1554	4x0,5	9,4	106
BS1555	5G0,5	10,1	126
BS1556	5x0,5	10,1	126
BS1557	6G0,5	10,8	144
BS1558	7G0,5	10,8	148
BS1559	7x0,5	10,8	148
BS1560	8G0,5	11,7	164
BS1561	8x0,5	11,7	164
BS1562	10G0,5	13,5	215
BS1563	12G0,5	13,5	220
BS1564	12x0,5	13,5	220
BS1565	14G0,5	14,1	245
BS1566	16G0,5	14,8	275
BS1567	18G0,5	15,5	305
BS1568	19G0,5	15,5	305
BS1569	21G0,5	16,2	330
BS1570	25G0,5	18,2	400
BS1571	27G0,5	18,2	405
BS1572	30G0,5	18,8	440
BS1573	34G0,5	20,2	510
BS1574	37G0,5	20,2	520
BS1575	40G0,5	20,9	555
BS1576	42G0,5	22,7	615
BS1577	52G0,5	23,7	705
BS1578	61G0,5	25,1	805

Cat. no.	n x mm ²	Outer diameter* [mm]	Approximate cable weight [kg/km]
BS1579	2x0,75	8,6	90
BS1580	3G0,75	9,0	102
BS1581	3x0,75	9,0	102
BS1582	4G0,75	9,7	122
BS1583	4x0,75	9,7	122
BS1584	5G0,75	10,4	142
BS1585	5x0,75	10,4	142
BS1586	6G0,75	11,2	164
BS1587	6x0,75	11,2	164
BS1588	7G0,75	11,2	170
BS1589	7x0,75	11,2	170
BS1590	8G0,75	12,4	192
BS1591	8x0,75	12,4	192
BS1592	10G0,75	14,3	250
BS1593	12G0,75	14,3	260
BS1594	12x0,75	14,3	260
BS1595	14G0,75	15,0	290
BS1596	16G0,75	15,7	325
BS1597	18G0,75	16,5	360
BS1598	19G0,75	16,5	365
BS1599	21G0,75	17,3	395
BS1600	25G0,75	19,4	480
BS1601	27G0,75	19,4	490
BS1602	30G0,75	20,1	535
BS1603	34G0,75	21,6	615
BS1604	37G0,75	21,6	635
BS1605	40G0,75	22,6	690
BS1606	42G0,75	24,3	745
BS1607	52G0,75	25,6	875
BS1608	61G0,75	27,1	1000

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Cat. no.	n x mm ²	Outer diameter* [mm]	Approximate cable weight [kg/km]
BS1609	2x1,0	8,9	102
BS1610	3G1,0	9,4	114
BS1611	3x1,0	9,4	114
BS1612	4G1,0	10,1	138
BS1613	4x1,0	10,1	138
BS1614	5G1,0	10,8	160
BS1615	5x1,0	10,8	160
BS1616	6G1,0	11,6	186
BS1617	6x1,0	11,6	186
BS1618	7G1,0	11,6	194
BS1619	7x1,0	11,6	194
BS1620	8G1,0	12,9	220
BS1621	10G1,0	15,0	285
BS1622	10x1,0	15,0	285
BS1623	12G1,0	15,0	300
BS1624	12x1,0	15,0	300
BS1625	14G1,0	15,6	335
BS1626	16G1,0	16,4	375
BS1627	18G1,0	17,2	415
BS1628	18x1,0	17,2	415
BS1629	19G1,0	17,2	425
BS1630	21G1,0	18,1	460
BS1631	25G1,0	20,4	555
BS1632	27G1,0	20,4	570
BS1633	30G1,0	21,1	620
BS1634	34G1,0	22,8	730
BS1635	37G1,0	22,8	750
BS1636	40G1,0	23,7	800
BS1637	42G1,0	25,7	880
BS1638	52G1,0	26,8	1020
BS1639	61G1,0	28,6	1185
BS1640	2x1,5	9,7	120
BS1641	3G1,5	10,2	138
BS1642	3x1,5	10,2	138
BS1643	4G1,5	11,1	168
BS1644	4x1,5	11,1	168
BS1645	5G1,5	11,9	200
BS1646	5x1,5	11,9	200
BS1647	6G1,5	12,8	235
BS1648	6x1,5	12,8	235
BS1649	7G1,5	12,8	245
BS1650	7x1,5	12,8	245

Cat. no.	n x mm ²	Outer diameter* [mm]	Approximate cable weight [kg/km]
BS1651	8G1,5	14,3	280
BS1652	10G1,5	16,6	360
BS1653	10x1,5	16,6	360
BS1654	12G1,5	16,6	380
BS1655	12x1,5	16,6	380
BS1656	14G1,5	17,4	430
BS1657	16G1,5	18,3	485
BS1658	18G1,5	19,2	540
BS1659	19G1,5	19,2	550
BS1660	21G1,5	20,2	600
BS1661	25G1,5	23,0	735
BS1662	27G1,5	23,0	755
BS1663	30G1,5	23,8	825
BS1664	34G1,5	25,8	970
BS1665	37G1,5	25,8	1000
BS1666	40G1,5	26,8	1070
BS1667	42G1,5	29,1	1165
BS1668	52G1,5	30,4	1365
BS1669	61G1,5	32,4	1585
BS1670	2x2,5	10,8	154
BS1671	3G2,5	11,4	178
BS1672	3x2,5	11,4	178
BS1673	4G2,5	12,4	225
BS1674	4x2,5	12,4	225
BS1675	5G2,5	13,4	270
BS1676	5x2,5	13,4	270
BS1677	6G2,5	14,7	315
BS1678	6x2,5	14,7	315
BS1679	7G2,5	14,7	330
BS1680	7x2,5	14,7	330
BS1681	10G2,5	18,9	490
BS1682	12G2,5	18,9	520
BS1683	12x2,5	18,9	520
BS1684	14G2,5	19,8	590
BS1685	16G2,5	20,9	670
BS1686	18G2,5	22,0	750
BS1687	21G2,5	23,3	845
BS1688	25G2,5	26,6	1040
BS1689	30G2,5	27,5	1175
BS1690	34G2,5	29,9	1375
BS1691	37G2,5	29,9	1425
BS1692	42G2,5	33,7	1660

*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 earth conductor

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

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paired cables

Cat. no.	n x mm ²	Outer diameter* [mm]	Approximate cable weight [kg/km]
BS1750	2x2x0,5	11,3	140
BS1751	3x2x0,5	12,4	152
BS1752	4x2x0,5	13,4	180
BS1753	5x2x0,5	14,3	220
BS1754	6x2x0,5	14,8	230
BS1755	7x2x0,5	16,4	265
BS1756	8x2x0,5	17,1	290
BS1757	10x2x0,5	18,3	340
BS1758	12x2x0,5	19,5	390
BS1759	14x2x0,5	20,7	440
BS1760	16x2x0,5	22,3	510
BS1761	18x2x0,5	23,2	545
BS1762	20x2x0,5	23,9	590
BS1763	24x2x0,5	24,6	675
BS1764	2x2x0,75	11,9	156
BS1765	3x2x0,75	13,2	174
BS1766	4x2x0,75	14,2	210
BS1767	5x2x0,75	15,2	260
BS1768	6x2x0,75	15,7	275
BS1769	7x2x0,75	17,5	315
BS1770	8x2x0,75	18,3	345
BS1771	10x2x0,75	19,6	405
BS1772	12x2x0,75	20,8	465
BS1773	14x2x0,75	22,3	540
BS1774	16x2x0,75	23,8	615
BS1775	18x2x0,75	24,9	660
BS1776	20x2x0,75	25,8	730
BS1777	24x2x0,75	26,6	840
BS1778	2x2x1,0	12,4	176
BS1779	3x2x1,0	13,7	196
BS1780	4x2x1,0	14,8	235
BS1781	5x2x1,0	15,9	295
BS1782	6x2x1,0	16,4	310

Cat. no.	n x mm ²	Outer diameter* [mm]	Approximate cable weight [kg/km]
BS1783	7x2x1,0	18,3	355
BS1784	8x2x1,0	19,1	395
BS1785	10x2x1,0	20,5	465
BS1786	12x2x1,0	21,8	540
BS1787	14x2x1,0	23,4	620
BS1788	16x2x1,0	25,2	725
BS1789	18x2x1,0	26,3	775
BS1790	20x2x1,0	27,1	845
BS1791	24x2x1,0	27,9	975
BS1792	2x2x1,5	13,7	215
BS1793	3x2x1,5	15,2	245
BS1794	4x2x1,5	16,5	295
BS1795	5x2x1,5	17,7	370
BS1796	6x2x1,5	18,3	395
BS1797	7x2x1,5	20,5	455
BS1798	8x2x1,5	21,4	505
BS1799	10x2x1,5	23,2	615
BS1800	12x2x1,5	24,7	710
BS1801	14x2x1,5	26,5	820
BS1802	16x2x1,5	28,5	955
BS1803	18x2x1,5	29,8	1030
BS1804	20x2x1,5	30,7	1125
BS1805	24x2x1,5	31,8	1315
BS1806	2x2x2,5	15,4	280
BS1807	3x2x2,5	17,3	325
BS1808	4x2x2,5	18,7	395
BS1809	5x2x2,5	20,2	505
BS1810	6x2x2,5	20,9	540
BS1811	7x2x2,5	23,7	635
BS1812	8x2x2,5	24,8	705
BS1813	10x2x2,5	26,8	860
BS1814	12x2x2,5	28,8	1015
BS1815	14x2x2,5	30,6	1155
BS1816	16x2x2,5	33,0	1350

*Outer diameter tolerance: +/-5%

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