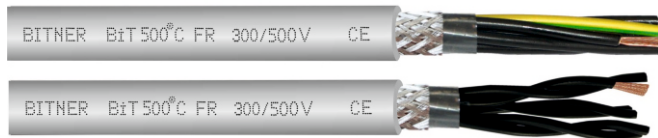


BITNER® BIT 500°C FR

RoHS 2015/863/EU
LVD 2014/35/EU
CPR
CPR 305/2011
24 months warranty

Control cables 300/500 V

Flexible, highly flame retardant, screened control cables with number coded conductors, rated 300/500 V



Technical data:

Thermal parameters:

Operating temperature:

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

Electrical parameters:

Operating voltage: $U_0/U = 300/500$ V
Test voltage (50 Hz): 3000 V
Insulation resistance: 20 MΩ x km

Mechanical parameters:

Min. bending radius:

flexible connections: 10 x Ø
fixed installation: 5 x Ø

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 ≥85%

Outer sheath:

PVC compound, oil resistant (see table of chemical resistance), self-extinguishing and flame retardant (acc. to EN 60332-1-2, EN 60332-3-24 cat. C); colour: grey

Application:

Flexible power and control cables designed for operation in control and protective devices as well as in control circuits. Suitable also for power supply to low power portable and mobile devices. Designed especially for installation in industrial areas with increased fire safety requirements (limited flame propagation). Common screen of tinned copper wire braid ensures very good protection against external electromagnetic field (screen attenuation ca. 50 dB). Cables are suitable for fixed installations, for flexible connections in industrial devices, technological lines and machines operating in dry and damp rooms. High flexibility of BIT 500°C FR cable simplifies installation and compounds used enable easy and fast connections and ensure their high durability. Cables classified according to EN 50575 (CPR).

Cat. no.	n x mm ²	Outer diameter* [mm]	Approximate cable weight [kg/km]
SB1300	2x0,5	5,4	44
SB1301	3G0,5	5,7	48
SB1302	3x0,5	5,7	48
SB1303	4G0,5	6,2	58
SB1304	4x0,5	6,2	58
SB1305	5G0,5	6,9	72
SB1306	5x0,5	6,9	72
SB1307	6G0,5	7,4	84
SB1308	7G0,5	7,4	88
SB1309	7x0,5	7,4	88
SB1310	8G0,5	8,3	110
SB1311	8x0,5	8,3	110
SB1312	10G0,5	10,0	145
SB1313	12G0,5	10,0	155
SB1314	12x0,5	10,0	155
SB1315	14G0,5	10,4	170
SB1316	16G0,5	11,0	190
SB1317	18G0,5	11,7	220
SB1318	19G0,5	11,8	220
SB1319	21G0,5	12,2	240
SB1320	25G0,5	13,9	295
SB1321	27G0,5	13,9	300
SB1322	30G0,5	14,4	325
SB1323	34G0,5	15,4	370
SB1324	37G0,5	15,4	385
SB1325	40G0,5	16,3	425

Cat. no.	n x mm ²	Outer diameter* [mm]	Approximate cable weight [kg/km]
SB1326	42G0,5	17,5	455
SB1327	50G0,5	18,2	525
SB1328	56G0,5	19,0	570
SB1329	61G0,5	19,5	610
SB1330	2x0,75	5,8	52
SB1331	3G0,75	6,1	58
SB1332	3x0,75	6,1	58
SB1333	4G0,75	6,9	74
SB1334	4x0,75	6,9	74
SB1335	5G0,75	7,4	88
SB1336	5x0,75	7,4	88
SB1337	6G0,75	8,2	112
SB1338	6x0,75	8,2	112
SB1339	7G0,75	8,2	118
SB1340	7x0,75	8,2	118
SB1341	8G0,75	9,4	142
SB1342	8x0,75	9,4	142
SB1343	10G0,75	10,8	180
SB1344	12G0,75	10,6	190
SB1345	12x0,75	10,6	190
SB1346	14G0,75	11,5	220
SB1347	16G0,75	12,1	245
SB1348	18G0,75	12,7	275
SB1349	19G0,75	12,7	280
SB1350	21G0,75	13,3	305
SB1351	25G0,75	15,1	370

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Flexible, highly flame retardant, screened control cables with number coded conductors, rated 300/500 V

Cat. no.	n x mm ²	Outer diameter* [mm]	Approximate cable weight [kg/km]
SB1352	27G0,75	15,1	380
SB1353	30G0,75	16,0	425
SB1354	34G0,75	17,2	490
SB1355	37G0,75	17,2	505
SB1356	40G0,75	17,8	540
SB1357	42G0,75	19,3	590
SB1358	50G0,75	20,1	670
SB1359	56G0,75	20,7	725
SB1360	61G0,75	21,5	790
SB1361	2x1,0	6,1	57
SB1362	3G1,0	6,5	69
SB1363	3x1,0	6,5	69
SB1364	4G1,0	7,0	84
SB1365	4x1,0	7,0	84
SB1366	5G1,0	8,0	111
SB1367	5x1,0	8,0	111
SB1368	6G1,0	8,6	129
SB1369	6x1,0	8,6	129
SB1370	7G1,0	8,6	138
SB1371	7x1,0	8,6	138
SB1372	8G1,0	9,9	165
SB1373	10G1,0	11,5	215
SB1374	10x1,0	11,5	215
SB1375	12G1,0	11,5	230
SB1376	12x1,0	11,5	230
SB1377	14G1,0	12,2	260
SB1378	16G1,0	12,8	290
SB1379	18G1,0	13,6	330
SB1380	18x1,0	13,6	330
SB1381	19G1,0	13,6	335
SB1382	21G1,0	14,3	365
SB1383	25G1,0	16,5	455
SB1384	27G1,0	16,5	465
SB1385	30G1,0	17,0	505
SB1386	34G1,0	18,4	590
SB1387	37G1,0	18,4	610
SB1388	40G1,0	19,1	655
SB1389	42G1,0	20,5	700
SB1390	50G1,0	21,6	815
SB1391	56G1,0	22,2	885
SB1392	61G1,0	22,8	950
SB1393	2x1,5	7,1	88
SB1394	3G1,5	7,5	99
SB1395	3x1,5	7,5	99
SB1396	4G1,5	8,4	122
SB1397	4x1,5	8,4	122
SB1398	5G1,5	9,5	156
SB1399	5x1,5	9,5	156
SB1400	6G1,5	10,2	182
SB1401	6x1,5	10,2	182
SB1402	7G1,5	10,2	192
SB1403	7x1,5	10,2	192

Cat. no.	n x mm ²	Outer diameter* [mm]	Approximate cable weight [kg/km]
SB1404	8G1,5	11,0	220
SB1405	10G1,5	13,3	290
SB1406	10x1,5	13,3	290
SB1407	12G1,5	13,3	310
SB1408	12x1,5	13,3	310
SB1409	14G1,5	14,1	355
SB1410	16G1,5	14,9	410
SB1411	18G1,5	16,0	455
SB1412	19G1,5	16,0	465
SB1413	21G1,5	16,8	515
SB1414	25G1,5	19,1	620
SB1415	27G1,5	19,1	640
SB1416	30G1,5	19,8	700
SB1417	34G1,5	21,4	810
SB1418	37G1,5	21,4	840
SB1419	40G1,5	22,2	910
SB1420	42G1,5	23,9	970
SB1421	50G1,5	25,3	1140
SB1422	56G1,5	26,1	1240
SB1423	61G1,5	26,8	1330
SB1424	2x2,5	8,4	112
SB1425	3G2,5	9,3	144
SB1426	3x2,5	9,3	144
SB1427	4G2,5	10,1	180
SB1428	4x2,5	10,1	180
SB1429	5G2,5	11,0	216
SB1430	5x2,5	11,0	216
SB1431	6G2,5	12,1	265
SB1432	6x2,5	12,1	265
SB1433	7G2,5	12,1	280
SB1434	7x2,5	12,1	280
SB1435	10G2,5	16,2	430
SB1436	12G2,5	16,2	465
SB1437	12x2,5	16,2	465
SB1438	14G2,5	17,0	525
SB1439	16G2,5	17,9	590
SB1440	18G2,5	19,0	665
SB1441	21G2,5	19,9	750
SB1442	25G2,5	22,7	910
SB1443	30G2,5	23,5	1030
SB1444	34G2,5	25,7	1210
SB1445	37G2,5	25,7	1260
SB1446	42G2,5	28,9	1470
SB1447	50G2,5	30,2	1700
SB1448	2x4,0	10,3	170
SB1449	3G4,0	10,9	200
SB1450	3x4,0	10,9	200
SB1451	4G4,0	12,1	270
SB1452	5G4,0	13,2	325
SB1453	7G4,0	14,5	425
SB1454	10G4,0	19,5	645
SB1455	12G4,0	19,5	705

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paired cables

Cat. no.	n x 2 x mm ²	Outer diameter* [mm]	Approximate cable weight [kg/km]
SB1456	2x2x0,5	7,7	80
SB1457	3x2x0,5	9,2	105
SB1458	4x2x0,5	9,9	125
SB1459	5x2x0,5	10,6	155
SB1460	6x2x0,5	11,0	165
SB1461	7x2x0,5	12,4	195
SB1462	8x2x0,5	12,9	210
SB1463	10x2x0,5	14,0	255
SB1464	12x2x0,5	14,9	290
SB1465	14x2x0,5	16,1	340
SB1466	16x2x0,5	17,2	385
SB1467	18x2x0,5	17,9	415
SB1468	20x2x0,5	18,6	455
SB1469	24x2x0,5	19,1	515
SB1470	2x2x0,75	8,6	102
SB1471	3x2x0,75	10,0	126
SB1472	4x2x0,75	10,7	152
SB1473	5x2x0,75	11,7	192
SB1474	6x2x0,75	12,1	205
SB1475	7x2x0,75	13,7	245
SB1476	8x2x0,75	14,3	270
SB1477	10x2x0,75	15,2	315
SB1478	12x2x0,75	16,6	375
SB1479	14x2x0,75	17,6	425
SB1480	16x2x0,75	19,0	490
SB1481	18x2x0,75	19,7	530
SB1482	20x2x0,75	20,3	570
SB1483	24x2x0,75	20,9	655
SB1484	2x2x1,0	9,5	126
SB1485	3x2x1,0	10,5	146
SB1486	4x2x1,0	11,6	182
SB1487	5x2x1,0	12,4	225
SB1488	6x2x1,0	12,8	240
SB1489	7x2x1,0	14,5	285

Cat. no.	n x 2 x mm ²	Outer diameter* [mm]	Approximate cable weight [kg/km]
SB1490	8x2x1,0	15,1	315
SB1491	10x2x1,0	16,6	385
SB1492	12x2x1,0	17,6	445
SB1493	14x2x1,0	18,9	510
SB1494	16x2x1,0	20,1	580
SB1495	18x2x1,0	21,0	625
SB1496	20x2x1,0	21,8	690
SB1497	24x2x1,0	22,4	790
SB1498	2x2x1,5	10,7	162
SB1499	3x2x1,5	12,2	196
SB1500	4x2x1,5	13,2	240
SB1501	5x2x1,5	14,4	300
SB1502	6x2x1,5	14,9	325
SB1503	7x2x1,5	17,0	395
SB1504	8x2x1,5	17,8	435
SB1505	10x2x1,5	19,2	525
SB1506	12x2x1,5	20,5	605
SB1507	14x2x1,5	21,9	695
SB1508	16x2x1,5	23,4	795
SB1509	18x2x1,5	24,8	885
SB1510	20x2x1,5	25,6	960
SB1511	24x2x1,5	26,3	1105
SB1512	2x2x2,5	12,7	230
SB1513	3x2x2,5	14,4	280
SB1514	4x2x2,5	16,1	355
SB1515	5x2x2,5	17,3	440
SB1516	6x2x2,5	17,9	480
SB1517	7x2x2,5	20,2	565
SB1518	8x2x2,5	21,1	625
SB1519	10x2x2,5	22,9	760
SB1520	12x2x2,5	24,4	880
SB1521	14x2x2,5	26,3	1030
SB1522	16x2x2,5	28,1	1175

*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