



## 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<sub>i</sub>/U=300/500V  
**Test voltage (50Hz):** 3000V

**Mechanical parameters:**  
**Insulation resistance:** 20MΩxkm  
**Min. bending radius:**  
 flexible connections: 10xϕ  
 fixed installation: 5xϕ

## Design:

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

**Insulation:** special PVC

**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

**Inner sheath:** special PVC

**Screen:** tinned copper wire braid, coverage ≥85%

**Outer sheath:** special PVC, oil resistant (see table of chemical resistance), self-extinguishing and flame retardant (acc. to EN 60332-1-2); colour: transparent

## Application:

Flexible power and control cables designed for operation in control and protective devices as well as in control circuits. Also for power supply to low power portable and mobile devices. Common screen of tinned copper wire braid ensures very good protection against external electromagnetic field especially in industrial environment. Reciprocal connection of screen to earth ensures full electromagnetic compatibility (EMC). Cables are suitable for fixed installations and for flexible connections in industrial devices, technological lines and machines operating in dry and damp rooms. High flexibility of BIT 500<sup>®</sup> CY 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 <sup>2</sup> | Outer diameter* [mm] | Approximate cable weight [kg/km] |
|----------|---------------------|----------------------|----------------------------------|
| S54300   | 2x0,5               | 7,1                  | 80                               |
| S54301   | 3G0,5               | 7,4                  | 87                               |
| S54302   | 4G0,5               | 7,8                  | 98                               |
| S54303   | 5G0,5               | 8,3                  | 113                              |
| S54304   | 6G0,5               | 9,3                  | 135                              |
| S54305   | 7G0,5               | 9,3                  | 139                              |
| S54306   | 8G0,5               | 10,0                 | 157                              |
| S54307   | 10G0,5              | 11,0                 | 183                              |
| S54308   | 12G0,5              | 11,5                 | 204                              |
| S54309   | 14G0,5              | 11,9                 | 222                              |
| S54310   | 16G0,5              | 12,4                 | 245                              |
| S54311   | 18G0,5              | 13,0                 | 266                              |
| S54312   | 19G0,5              | 13,0                 | 270                              |
| S54314   | 21G0,5              | 13,7                 | 299                              |
| S54260   | 25G0,5              | 14,9                 | 336                              |
| S54316   | 27G0,5              | 15,2                 | 359                              |
| S54317   | 30G0,5              | 16,0                 | 399                              |
| S54318   | 37G0,5              | 17,1                 | 461                              |
| S54319   | 2x0,75              | 7,5                  | 90                               |
| S54320   | 3G0,75              | 7,8                  | 100                              |
| S54321   | 4G0,75              | 8,3                  | 115                              |
| S54322   | 5G0,75              | 9,3                  | 141                              |
| S54323   | 6G0,75              | 9,9                  | 160                              |
| S54324   | 7G0,75              | 9,9                  | 164                              |
| S54325   | 8G0,75              | 10,6                 | 187                              |
| S54326   | 10G0,75             | 12,0                 | 224                              |
| S54327   | 12G0,75             | 12,3                 | 246                              |
| S54328   | 14G0,75             | 12,8                 | 269                              |

| Cat. no. | n x mm <sup>2</sup> | Outer diameter* [mm] | Approximate cable weight [kg/km] |
|----------|---------------------|----------------------|----------------------------------|
| S54329   | 16G0,75             | 13,6                 | 304                              |
| S54330   | 18G0,75             | 14,2                 | 332                              |
| S54331   | 19G0,75             | 14,2                 | 336                              |
| S54333   | 21G0,75             | 14,7                 | 364                              |
| S54275   | 25G0,75             | 16,5                 | 425                              |
| S54335   | 2x1,0               | 7,8                  | 99                               |
| S54336   | 3G1,0               | 8,1                  | 113                              |
| S54337   | 4G1,0               | 9,1                  | 137                              |
| S54338   | 5G1,0               | 9,7                  | 159                              |
| S54339   | 6G1,0               | 10,3                 | 182                              |
| S54340   | 7G1,0               | 10,3                 | 186                              |
| S54341   | 8G1,0               | 11,3                 | 216                              |
| S54342   | 10G1,0              | 12,6                 | 256                              |
| S54343   | 12G1,0              | 12,9                 | 281                              |
| S54344   | 14G1,0              | 13,6                 | 316                              |
| S54345   | 16G1,0              | 14,3                 | 350                              |
| S54346   | 18G1,0              | 14,9                 | 385                              |
| S54347   | 19G1,0              | 14,9                 | 390                              |
| S54349   | 21G1,0              | 15,9                 | 437                              |
| S54290   | 25G1,0              | 17,4                 | 494                              |
| S54351   | 2x1,5               | 8,5                  | 121                              |
| S54352   | 3G1,5               | 9,3                  | 147                              |
| S54353   | 4G1,5               | 9,9                  | 171                              |
| S54354   | 5G1,5               | 10,6                 | 201                              |
| S54355   | 6G1,5               | 11,6                 | 235                              |
| S54356   | 7G1,5               | 11,6                 | 243                              |
| S54357   | 8G1,5               | 12,5                 | 277                              |
| S54358   | 10G1,5              | 14,2                 | 336                              |

**BIT 500<sup>®</sup> CY**

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

| Cat. no. | n x mm <sup>2</sup> | Outer diameter* [mm] | Approximate cable weight [kg/km] |
|----------|---------------------|----------------------|----------------------------------|
| S54359   | 2x2,5               | 14,6                 | 371                              |
| S54360   | 3G2,5               | 10,0                 | 170                              |
| S54361   | 4G2,5               | 10,5                 | 199                              |
| S54362   | 5G2,5               | 11,5                 | 238                              |
| S54363   | 12G1,5              | 12,3                 | 280                              |

| Cat. no. | n x mm <sup>2</sup> | Outer diameter* [mm] | Approximate cable weight [kg/km] |
|----------|---------------------|----------------------|----------------------------------|
| S54364   | 6G2,5               | 13,2                 | 325                              |
| S54365   | 7G2,5               | 13,2                 | 338                              |
| S54367   | 10G2,5              | 16,8                 | 487                              |
| S54368   | 12G2,5              | 17,3                 | 542                              |

\*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

## X-ON Electronics

Largest Supplier of Electrical and Electronic Components

*Click to view similar products for [Ribbon Cables / IDC Cables](#) category:*

*Click to view products by [BITNER](#) manufacturer:*

Other Similar products are found below :

[AWG28-10G](#) [EHJ4C](#) [cab-LVDV-PWR-10-15](#) [Ribbon Cable, 4 Pin, 350mm](#) [Ribbon Cable, 4 Pin, 700mm](#) [cab-LVDV-DAT-34-15](#) [49635-C62-S2](#) [1-3636-600-5204](#) [ACL-eSSI-2](#) [IDD-04-G](#) [IDD-25-G](#) [3801/09 \(100FT\)](#) [0044716](#) [0044658](#) [0032805](#) [0012842](#) [0012801](#) [0012814](#) [21201](#) [22253](#) [22261](#) [22265](#) [22018](#) [22005](#) [22250](#) [22258](#) [XF-39603003P](#) [XF-20102003P3](#) [XF-10101502P2](#) [XF-12501502P2](#) [XF-25013004P](#) [XF-25013002P](#) [XF-10101504P](#) [XF-12501504P](#) [XF-39603004P4](#) [XF-20102002P2](#) [CL2542320190BC10E](#) [XF-2501L3003P3](#) [XF-39603003P3](#) [XF-12501503P](#) [XF-20162002P](#) [XF-12571503P](#) [XF-12571504P](#) [XF-12571503P3](#) [XF-20162003P3](#) [XF-12571502P2](#) [XF-12571502P](#) [XF-25013003P](#) [XF-25013003P3](#) [XF-20102004P4](#)