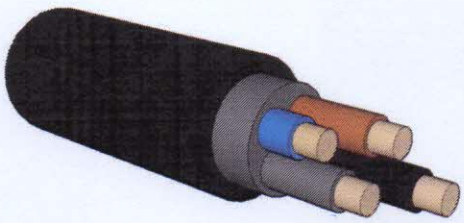
# EXVB 0,6/1kV

HD 603S1-5A

## XLPE insulated and PVC sheathed power cable



| CONSTRUCTION | |
|---|---|
| **Conductors:** | annealed copper solid class 1(RE), circular or circular compacted stranded conductor class 2 (RM) or sector class 2 (SM) acc. to EN 60228 |
| **Insulation:** | special XLPE compound type DIX1 acc. to HD 603.1 |
| **Inner covering:** | filling compound |
| **Sheath:** | special PVC compound type DMV2 acc. to HD 603.1 |

| CHARACTERISTIC | | |
|---|---|---|
| **Colour of sheath:** | black | |
| **Core identification:** | **HD 308 S2** | |
| | **Cables with protective conductor (G)** | **Cables without protective conductor (X)** |
| 1-core: | green-yellow | black |
| 2-core: | - | blue, brown |
| 3-core: | green-yellow, blue, brown | brown, black, grey |
| 4-core: | green-yellow, brown, black, grey | blue, brown, black, grey |
| 5-core: | green-yellow, blue, brown, black, grey | blue, brown, black, grey, black |
| **Maximum conductor operating temperature:** | +90°C | |
| **Lowest ambient temperature for fixed installation:** | -30°C | |
| **Lowest installation temperature:** | -5°C | |
| **Maximum short-circuit conductor temperature:** | +250°C | |
| **Minimum bending radius:** | 15 x D single core cables, 12 x D multicore cables, D – overall diameter | |
| **Max. permissible tensile stress with cable grip for Cu-conductor:** | 50 N/mm$^2$ | |

| FIRE PERFORMANCE | |
|---|---|
| ▪ **Flame retardant:** | EN 60332-1-2 |
| ▪ **CPR – class reaction to fire (acc EN 50575):** | Eca |

| APPLICATIONS | |
|---|---|
| XLPE insulated and PVC sheathed power cables for the supply of electrical energy. Special for installations in the open air, in underground, and water, indoors, in cable ducts. | |
| **Standard length cable packing** | 1000m on drums. Other forms of packing and delivery are available on request |

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| Number and cross-sectional area of conductor | Minimum number of wires in conductor | Nominal thickness of insulation | Nominal thickness of inner covering | Nominal thickness of sheath | Approximate overall diameter | Approximate net weight of cables | Maximum conductor resistance at temperature 20°C |
|---|---|---|---|---|---|---|---|
| n x mm² | n | mm | mm | mm | mm | kg/km | Ω/km |
| 1x2,5RE | 1 | 0,7 | - | 1,7 | 6,5 | 65 | 7,41 |
| 1x4RE | 1 | 0,7 | - | 1,7 | 7,0 | 83 | 4,61 |
| 1x6RE | 1 | 0,7 | - | 1,7 | 7,5 | 104 | 3,08 |
| 1x10RE | 1 | 0,7 | - | 1,8 | 8,5 | 151 | 1,83 |
| 1x16RM | 6 | 0,7 | - | 1,8 | 9,8 | 218 | 1,15 |
| 1x25RMC | 6 | 0,9 | - | 1,9 | 11,7 | 325 | 0,727 |
| 1x35RMC | 6 | 0,9 | - | 1,9 | 12,8 | 422 | 0,524 |
| 1x50RMC | 6 | 1 | - | 2,0 | 14,5 | 558 | 0,387 |
| 1x70RMC | 12 | 1,1 | - | 2,0 | 16 | 763 | 0,268 |
| 1x95RMC | 15 | 1,1 | - | 2,1 | 18,2 | 1028 | 0,193 |
| 1x120RMC | 18 | 1,2 | - | 2,1 | 19,8 | 1269 | 0,153 |
| 1x150RMC | 18 | 1,4 | - | 2,2 | 22 | 1559 | 0,124 |
| 1x185RMC | 30 | 1,6 | - | 2,2 | 23,9 | 1919 | 0,0991 |
| 1x240RMC | 34 | 1,7 | - | 2,3 | 26,8 | 2469 | 0,0754 |
| 1x300RMC | 34 | 1,8 | - | 2,4 | 29 | 3059 | 0,0601 |
| | | | | | | | |
| 2x1,5RE | 1 | 0,7 | 1,0 | 2,0 | 11,1 | 172 | 12,1 |
| 2x2,5RE | 1 | 0,7 | 1,0 | 2,0 | 11,9 | 208 | 7,41 |
| 2x4RE | 1 | 0,7 | 1,0 | 2,0 | 12,8 | 257 | 4,61 |
| 2x6RE | 1 | 0,7 | 1,0 | 2,0 | 13,8 | 318 | 3,08 |
| 2x10RE | 1 | 0,7 | 1,0 | 2,0 | 15,4 | 433 | 1,83 |
| 2x16RM | 6 | 0,7 | 1,0 | 2,0 | 18,0 | 624 | 1,15 |
| 2x25RMC | 6 | 0,9 | 1,0 | 2,1 | 21,6 | 922 | 0,727 |
| 2x35RMC | 6 | 0,9 | 1,0 | 2,2 | 23,3 | 1161 | 0,524 |
| | | | | | | | |
| 3x1,5RE | 1 | 0,7 | 1,0 | 2,0 | 11,5 | 191 | 12,1 |
| 3x2,5RE | 1 | 0,7 | 1,0 | 2,0 | 12,4 | 236 | 7,41 |
| 3x4RE | 1 | 0,7 | 1,0 | 2,0 | 13,4 | 298 | 4,61 |
| 3x6RE | 1 | 0,7 | 1,0 | 2,0 | 14,4 | 374 | 3,08 |
| 3x10RE | 1 | 0,7 | 1,0 | 2,0 | 16,1 | 523 | 1,83 |
| 3x16RM | 6 | 0,7 | 1,0 | 2,1 | 19,2 | 775 | 1,15 |
| 3x16RM+10RE* | 6/1 | 0,7 | 1,0 | 2,1 | 20,6 | 914 | 1,15/1,83 |
| 3x25RMC | 6 | 0,9 | 1,0 | 2,2 | 23 | 1155 | 0,727 |
| 3x35RMC | 6 | 0,9 | 1,0 | 2,3 | 25,5 | 1506 | 0,524 |
| 3x50RMC | 6 | 1,0 | 1,0 | 2,4 | 28,9 | 1985 | 0,387 |
| 3x70SM | 12 | 1,1 | 1,2 | 2,5 | 29,9 | 2402 | 0,268 |
| 3x95SM | 15 | 1,1 | 1,2 | 2,6 | 33 | 3188 | 0,193 |
| 3x120SM | 18 | 1,2 | 1,2 | 2,7 | 36,1 | 3945 | 0,153 |
| 3x120SM+70SM | 18/12 | 1,2 | 1,2 | 2,9 | 40 | 4834 | 0,153/0,268 |
| 3x150SM | 18 | 1,4 | 1,4 | 2,9 | 40,6 | 4891 | 0,124 |
| 3x185SM | 30 | 1,6 | 1,4 | 3,0 | 44,6 | 6025 | 0,0991 |

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| Number and cross-sectional area of conductor | Minimum number of wires in conductor | Nominal thickness of insulation | Nominal thickness of inner covering | Nominal thickness of sheath | Approximate overall diameter | Approximate net weight of cables | Maximum conductor resistance at temperature 20°C |
|---|---|---|---|---|---|---|---|
| **n x mm²** | **n** | **mm** | **mm** | **mm** | **mm** | **kg/km** | Ω/km |
| 3x240SM | 34 | 1,7 | 1,6 | 3,2 | 49,9 | 7811 | 0,0754 |
| 3x300SM | 34 | 1,8 | 1,6 | 3,4 | 54,5 | 9494 | 0,0601 |
| | | | | | | | |
| 4x1,5RE | 1 | 0,7 | 1,0 | 2,0 | 12,3 | 218 | 12,1 |
| 4x2,5RE | 1 | 0,7 | 1,0 | 2,0 | 13,2 | 273 | 7,41 |
| 4x4RE | 1 | 0,7 | 1,0 | 2,0 | 14,3 | 350 | 4,61 |
| 4x6RE | 1 | 0,7 | 1,0 | 2,0 | 15,5 | 447 | 3,08 |
| 4x10RE | 1 | 0,7 | 1,0 | 2,1 | 17,6 | 642 | 1,83 |
| 4x16RM | 6 | 0,7 | 1,0 | 2,1 | 20,8 | 946 | 1,15 |
| 4x25RMC | 6 | 0,9 | 1,0 | 2,3 | 25,3 | 1432 | 0,727 |
| 4x35RMC | 6 | 0,9 | 1,0 | 2,3 | 27,8 | 1871 | 0,524 |
| 4x50RMC | 6 | 1,0 | 1,0 | 2,5 | 31,8 | 2490 | 0,387 |
| 4x70SM | 12 | 1,1 | 1,2 | 2,6 | 33,6 | 3129 | 0,268 |
| 4x95SM | 15 | 1,1 | 1,2 | 2,7 | 37,2 | 4169 | 0,193 |
| 4x120SM | 18 | 1,2 | 1,4 | 2,9 | 41,7 | 5243 | 0,153 |
| 4x150SM | 18 | 1,4 | 1,4 | 3,0 | 45,8 | 6399 | 0,124 |
| 4x185SM | 30 | 1,6 | 1,4 | 3,2 | 50,4 | 7913 | 0,0991 |
| 4x240SM | 34 | 1,7 | 1,6 | 3,4 | 56,5 | 10269 | 0,0754 |
| 4x300SM | 34 | 1,8 | 1,6 | 3,6 | 61,5 | 12489 | 0,0601 |
| | | | | | | | |
| 5x1,5RE | 1 | 0,7 | 1,0 | 2,0 | 13,1 | 251 | 12,1 |
| 5x2,5RE | 1 | 0,7 | 1,0 | 2,0 | 14,1 | 316 | 7,41 |
| 5x4RE | 1 | 0,7 | 1,0 | 2,0 | 15,3 | 410 | 4,61 |
| 5x6RE | 1 | 0,7 | 1,0 | 2,0 | 16,6 | 528 | 3,08 |
| 5x10RE | 1 | 0,7 | 1,0 | 2,1 | 19,0 | 767 | 1,83 |
| 5x16RM | 6 | 0,7 | 1,0 | 2,2 | 22,7 | 1149 | 1,15 |
| 5x25RMC | 6 | 0,9 | 1,0 | 2,3 | 33,5 | 2075 | 0,727 |

*based on HD 603S1-5A