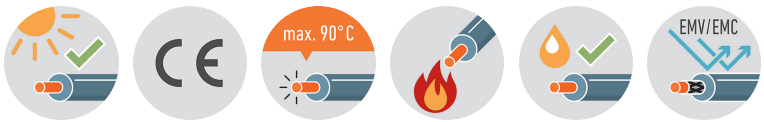
# Motor cable for frequency converters
# 2XSL(St)CYv

**Application**: The cable has been developed for connecting motors to inverse rectifiers under consideration of EMC-requirements. It may be used under medium mechanical stress for fixed installations and temporary movement. Also for outdoor installation, but not for direct burial. The cable is resistant to most usual oil and grease.

**Construction and technical data:**

| | |
|---|---|
| **Conductor material:** | copper, bare |
| **Conductor construction:** | Class 5 = fine stranded - DIN EN IEC 60228 (VDE 0295) |
| **Insulation:** | XLPE |
| **Core wrapping:** | plastic foil |
| **Screen:** | aluminium foil + tinned copper braid |
| **Screen coverage, approx.:** | 75 % |
| **Sheathing material:** | PVC, enforced |
| **Colour of outer sheath:** | black |
| **Flame-retardant:** | VDE 0482-332-1-2/IEC 60332-1-2 |
| **UV-resistant:** | yes |
| **Oil-resistant:** | DIN EN 60811-404 / VDE 0473-811-404 / IEC 60811-404 |
| **For outdoor use:** | yes |
| **Max. temperature at conductor, °C:** | 90 °C |
| **Permitted outer cable temperature, fixed, °C:** | -30 - +70 °C |
| **Permitted outer cable temperature, moved, °C:** | -5 - +70 °C |
| **Min. bending radius, fixed installation:** | 10 x Ø |
| **Bending radius, moving application:** | 20 x Ø |
| **Transfer impedance:** | 250 Ohm/km |




*The products and information presented here are for technical calculation only. They are subject to technical progress and in no way represent the ability of shipment. Outer diameters are approximately.*

2XSL(St)CYv-JB

**Nominal voltage Uo:** 0.6 kV

**Nominal voltage U:** 1 kV

**Maximum permitted operating voltage in three-phase systems:** 1.2 kV

**Test voltage:** 3 kV

**Protective conductor:** yes

**Core identification:** colours acc. to VDE 0293 (HD308)

| part no. | part name | Rl [Ohm/km] | Ibl [A] | Ø [mm] | Cu | G [kg] |
|---|---|---|---|---|---|---|
| 038412 | 04X1.5 | 13.3 | 23 | 10.5 | 95 | 154 |
| 034456 | 04X2.5 | 7.98 | 32 | 12.5 | 150 | 270 |
| 038413 | 04X4 | 4.95 | 42 | 13.1 | 235 | 339 |
| 034458 | 04X6 | 3.3 | 54 | 16.5 | 320 | 582 |
| 038414 | 04X10 | 1.91 | 75 | 17.6 | 533 | 667 |
| 038415 | 04X16 | 1.21 | 100 | 20.4 | 789 | 892 |
| 038416 | 04X25 | 0.78 | 127 | 24.9 | 1236 | 1440 |
| 038417 | 04X35 | 0.554 | 158 | 30.3 | 1663 | 1861 |
| 038418 | 04X50 | 0.386 | 192 | 33.6 | 2345 | 2547 |
| 038419 | 04X70 | 0.272 | 246 | 37.4 | 3196 | 3404 |
| 038420 | 04X95 | 0.206 | 298 | 42.9 | 4316 | 4888 |
| 038421 | 04X120 | 0.161 | 346 | 47.2 | 5435 | 5703 |
| 038422 | 04X150 | 0.129 | 395 | 54.8 | 6394 | 7040 |
| 038423 | 04X185 | 0.106 | 450 | 57.8 | 8203 | 9150 |
| 038424 | 04X240 | 0.0801 | 538 | 70 | 11008 | 12500 |
| 038425 | 04X300 | 0.0641 | 621 | 74 | 13485 | 15508 |
| 038398 | 03X1.5 + 3G0.25 | 13.3 | 23 | 10.2 | 86 | 140 |
| 038399 | 03X2.5 + 3G0.5 | 7.98 | 31 | 11.3 | 144 | 220 |
| 038400 | 03X4 + 3G0.75 | 4.95 | 42 | 12.8 | 224 | 323 |
| 038401 | 03X6 + 3G1 | 3.3 | 54 | 14.9 | 298 | 420 |
| 038402 | 03X10 + 3G1.5 | 1.91 | 75 | 18.4 | 511 | 615 |
| 038403 | 03X16 + 3G2.5 | 1.21 | 100 | 21.6 | 723 | 819 |
| 038404 | 03X25 + 3G4 | 0.78 | 127 | 26.8 | 1204 | 1402 |
| 038405 | 03X35 + 3G6 | 0.554 | 158 | 28.5 | 1535 | 1718 |
| 038406 | 03X50 + 3G10 | 0.386 | 192 | 30.1 | 2208 | 2399 |
| 038407 | 03X70 + 3G10 | 0.272 | 246 | 35 | 2980 | 3173 |
| 034465 | 03X95 + 3G16 | 0.206 | 298 | 37.8 | 3953 | 4492 |
| 034466 | 03X120 + 03G16 | 0.161 | 346 | 42.6 | 5007 | 5301 |
| 038408 | 03X150 + 3G25 | 0.129 | 395 | 46.1 | 5412 | 6128 |
| 038409 | 03X185 + 3G35 | 0.106 | 450 | 53.2 | 6969 | 7450 |
| 038410 | 03X240 + 3G50 | 0.0801 | 538 | 58.5 | 9123 | 10800 |
| 038411 | 03X300 + 3G70 | 0.0641 | 621 | 74 | 11965 | 13760 |

| | |
|---|---|
| Rl | Conductor resistance |
| Ibl | Ampacity in air (30 °C) |
| Ø | outer diameter approx. |
| Cu | Copper weight (GER) |
| G | net weight per 1000 |

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