

M2XCH - VFD 1,8 / 3 (3,6) kV

Motor Supply Cable For VFD



CABLE STRUCTURE

| | |
|----------------|---|
| Conductor | Electrolytic, stranded, annealed copper wire IEC 60228 Class 2 (Class 5 and / or tinned on request) |
| Insulation | Cross linked polyethylene compound (XLPE). |
| Inner Covering | Separating foil and / or halogen-free compound |
| Screen | Copper / polyester tape coverage 100% and copper wire braided screen min.coverage 90% (Tinned copper wire braid on request) |
| Outer sheath | Halogen-free, flame retardant, polyolefin based compound (SHFI). |
| Colour | Black or Grey. |

STANDARDS & MAIN CHARACTERISTICS

| | |
|---|---|
| Construction | IEC 60092 / 353 |
| Tests And Material | IEC 60092 / 350-360 |
| Flame Retardant | IEC 60332 / 1-2, IEC 60332 / 3-22 Cat A |
| Halogen Content | IEC 60754 / 1-2 |
| Smoke Emission | IEC 61034 / 1-2 (DIN EN 50268 / 1-2) |
| Ozon Resistance | IEC 60811 / 403 |
| Shielding Effectiveness (For Emc Type) | DIN EN 50147-1 |
| Working Temperature | -40°C / + 90°C |
| Min. Bending Radius (fixed) | 6 x D |
| Rated Voltage | 1,8 / 3 (3,6) kV |
| Test Voltage | 6,5 kV |

Minimum recommended installation temperature -15°C

For core identification, diameter tolerances and current ratings etc. see technical information section

Application

Used as fixed installation cables in various electromechanical and electronic equipments. Due to its' overall screen the electromagnetic interference is minimized. It can be used as motor supply cable and for frequency converters controlled low voltage AC drives on ships, called VFD (Variable Frequency Drivers) applications.



Halogen
Free



Low Smoke
Density



Flame
Retardant



Rated
Voltage



Test
Voltage



Working
Temperature



Bending
Radius



No
Corrosivity

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| Cross Section (mm ²) | Nominal Overall Diameter (mm) | Approximate Weight (kg / km) | Min. Bending Radius Fixed Installed (mm) | Max Resistance of Conductors at 20°C (ohm / km) | Current Carrying Capacity at 45°C (A) |
|----------------------------------|-------------------------------|------------------------------|--|---|---------------------------------------|
| 1x10 | 13,0 | 295 | 78 | 1,83 | 72 |
| 1x16 | 14,6 | 412 | 88 | 1,15 | 96 |
| 1x25 | 15,7 | 512 | 95 | 0,727 | 127 |
| 1x35 | 17,2 | 630 | 103 | 0,524 | 157 |
| 1x50 | 18,5 | 790 | 111 | 0,387 | 196 |
| 1x70 | 20,2 | 1022 | 121 | 0,268 | 242 |
| 1x95 | 22,3 | 1324 | 134 | 0,193 | 293 |
| 1x120 | 23,8 | 1585 | 143 | 0,153 | 339 |
| 1x150 | 25,7 | 1980 | 154 | 0,124 | 389 |
| 1x185 | 27,8 | 2315 | 167 | 0,0991 | 444 |
| 1x240 | 30,4 | 2920 | 183 | 0,0754 | 522 |
| 3x16 + 3x6 | 27,5 | 1412 | 165 | 1,15 | 67 |
| 3x25 + 3x6 | 31,0 | 1835 | 186 | 0,727 | 89 |
| 3x35 + 3x6 | 34,0 | 2295 | 204 | 0,524 | 110 |
| 3x50 + 3x10 | 38,4 | 3014 | 230 | 0,387 | 137 |
| 3x70 + 3x16 | 41,2 | 3810 | 247 | 0,268 | 169 |
| 3x95 + 3x16 | 47,0 | 4920 | 282 | 0,193 | 205 |
| 3x120 + 3x25 | 50,4 | 5870 | 303 | 0,153 | 237 |
| 3x150 + 3x25 | 53,6 | 6804 | 322 | 0,124 | 272 |
| 3x185 + 3x35 | 59,4 | 8452 | 357 | 0,0991 | 311 |
| 3x240 + 3x50 | 64,8 | 10840 | 389 | 0,0754 | 365 |