

SupremeFlex SmF M2XH-FFR
HFFR Fire Resistant Sector Flex Power Cable



CABLE STRUCTURE

| | |
|----------------|--|
| Conductor | Electrolytic, stranded, annealed sector shaped copper wire to IEC 60228 Class 5 SM (Tinned on request) |
| Fire Barrier | Mica tape. |
| Insulation | Cross linked polyethylene compound (XLPE). |
| Inner Covering | Separating foil |
| Outer Sheath | Halogen-free, flame retardant and fire resistant, thermoplastic polyolefin based compound (SHFI). |
| Colour | Orange or Green or Black. |

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 |
| Fire Resistance | IEC 60331 / 21, / IEC 60331 / 1-2 |
| Halogen Content | IEC 60754 / 1-2 |
| Smoke Emission | IEC 61034 / 1-2 (DIN EN 50268 / 1-2) |
| Ozon Resistance | IEC 60811 / 403 |
| Working Temperature | -40°C / + 90°C |
| Min. Bending Radius (fixed) | For cables D ≤ 25 mm 4xD For cables D > 25 mm 6xD |
| Rated Voltage | 0,6 / 1 kV |
| Test Voltage | 3,5 kV |

Minimum recommended installation temperature -15°C
For core identification, diameter tolerances and current ratings etc. see technical information section

Application

Used on marine vehicles as fixed installation cables of various electromechanical and electronic equipments, where sustainable connection during fire is required.



Halogen Free



Low Smoke Density



Flame Retardant



Rated Voltage



Test Voltage



Working Temperature



Bending Radius



No Corrosivity

| Cross Section (mm ²) | 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) |
|----------------------------------|---------------------------|------------------------------|--|---|---------------------------------------|
| 3x35 | 22,4 | 1150 | 134 | 0,554 | 107 |
| 3x50 | 26,6 | 1600 | 160 | 0,386 | 137 |
| 3x70 | 30,3 | 2200 | 182 | 0,272 | 168 |
| 3x95 | 32,8 | 2865 | 197 | 0,206 | 201 |
| 3x120 | 38,6 | 3660 | 232 | 0,161 | 233 |
| 3x150 | 42,3 | 4445 | 254 | 0,129 | 268 |
| 3x185 | 47,2 | 5525 | 284 | 0,106 | 303 |
| 3x240 | 52,6 | 7110 | 316 | 0,0801 | 356 |
| 4x35 | 26,2 | 1525 | 158 | 0,554 | 107 |
| 4x50 | 30,1 | 2115 | 181 | 0,386 | 137 |
| 4x70 | 35,0 | 2900 | 210 | 0,272 | 168 |
| 4x95 | 38,2 | 3775 | 230 | 0,206 | 201 |
| 4x120 | 43,7 | 4850 | 263 | 0,161 | 233 |
| 4x150 | 46,8 | 5850 | 281 | 0,129 | 268 |
| 4x185 | 52,2 | 7275 | 314 | 0,106 | 303 |
| 4x240 | 57,7 | 9365 | 347 | 0,0801 | 356 |

(*) Cable diameter tolerances are $\pm 7\%$