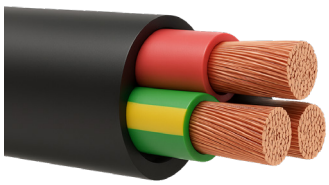
# FLEXIBLE MULTI CORE CABLES

## HYPERFLEX™ HFM SERIES

**Ultra Performance Flexible Rubber LSHF Cable 0.6/1kV 110°C**



### APPLICATIONS:

**Data Centers** LSHF cables boost safety, minimize toxic emissions, ensure compliance, and provide reliable performance in high-density cabling applications.
**Power supply cable** for switchboards, flexible droppers from busbars, transformers, load banks and other equipment, offering flexibility and ease of installation in fixed applications.
**Welding** Suitable for welding and electrode leads.
**Generator Sets** As leads for temporary power supplies.
**Automotive** Battery leads or jumpers, battery chargers, electric forklifts.
**Telecommunications** Where finely stranded large cross section cables are required for minimal volt drop.
**Greenstar applications:** PVC-free, Low Smoke Halogen Free construction suitable for sustainable building standards.

| FEATURES | BENEFITS |
|---|---|
| **EASY RUN™ finely stranded class 6 conductors** provide extreme flexibility and superior bending radius. | Making it easier and faster to install, especially in confined spaces. |
| **EASY GLIDE™ LOW-FRICTION SHEATH** | Making it easier to pull through conduit and ensuring a much smoother installation. |
| **FLEXI CHILL™** remains flexible in cold temperatures. | Making it easy to install in cold conditions. |
| **Low Smoke Halogen Free sheath** (LSHF) | Minimises toxic fumes and smoke in the event of a fire. |
| **Flame retardant sheath** made to IEC 60332-3-22 | Reduces fire spread in high-density, bunched cable routes through critical areas, ensuring minimised flame propagation. |
| **UV stabilised black sheath** | Provides prolonged UV resistance to sunlight degradation. |
| **Submersible to 200m** | Provides dependable operation in demanding submerged environments. |

### CONSTRUCTION:

**Conductor:** Annealed plain copper stranded extreme flexibility (Class 6)
**Insulation:** X-HF-110
**Sheath:** SE-LSHF-EG

### CHARACTERISTICS:

**Operating Temperature Range** Fixed - 40°C to 110°C, flexing -30°C to 100°C
**Maximum Conductor Temperature** 110°C (Current ratings are based on 30°C air temp. See technical section for de-rating factors).
**Rated Voltage** Uo/U 0.6/1kV.
**Max AC Operating Voltage** Uo 0.7kV.
**Minimum Bending Radius** Fixed 4 x cable diameter / Flexing 6 x cable diameter.
**Sheath Colour** Black (other colours available on request).
**Standard Core Colours**
3 Core – Red, Black, Green/Yellow; 4 Core – Red, White, Blue, Green/Yellow; 5 Core – Red, White, Blue, Black, Green/Yellow;
Multi Core - White Numbered
**Relevant Standards** IEC 60332-1, AS/NZS 5000.1, AS/NZS 1125, AS/NZS 3808, AS/NZS 3008, IEC 61034-2, IEC 60754-1, RoHS Compliant.

Firstflex has taken every precaution to ensure accurate information in this catalogue, but accept no liability for any errors or omissions. Firstflex reserves the right to modify specifications at any time.

# FLEXIBLE MULTI CORE CABLES

## HYPERFLEX™ HFM SERIES continued

| Code | No. of Cores x Size (mm²) | Approx. Stranding no. of Wires x mm | Approx. Overall Diameter (mm) | Approx. Weight (Kg/Km) | Nominal Amps un-enclosed protected from sun @ 30°C fixed installation 3 Phase Touching | Single Phase Volt Drop @50Hz / MAX. Conductor Temp: 110°C (Mv/Am) |
|---|---|---|---|---|---|---|
| HFM03/1.5 | 2x1.5 + E1.5 | 80/0.15 | 10.8 | 149 | 30 | 36.04 |
| HFM03/2.5 | 2x2.5 + E2.5 | 132/0.15 | 11.8 | 191 | 41 | 21.60 |
| HFM03/4.0 | 2x4.0 + E2.5 | 212/0.15 | 12.9 | 236 | 54 | 13.40 |
| HFM03/6.0 | 2x6.0 + E2.5 | 189/0.196 | 14.0 | 291 | 67 | 8.94 |
| HFM03/10 | 2x10 + E4 | 309/0.196 | 15.6 | 401 | 94 | 5.17 |
| HFM03/16 | 2x16 + E6 | 489/0.196 | 17.8 | 560 | 124 | 3.28 |
| HFM03/25 | 2x25 + E6 | 756/0.196 | 21.4 | 800 | 165 | 2.13 |
| HFM03/35 | 2x35 + E10 | 1060/0.196 | 23.8 | 1059 | 203 | 1.51 |

| Code | No. of Cores x Size (mm²) | Approx. Stranding no. of Wires x mm | Approx. Overall Diameter (mm) | Approx. Weight (Kg/Km) | Nominal Amps un-enclosed protected from sun @ 30°C fixed installation 3 Phase Touching | 4 Phase Volt Drop @50Hz / MAX. Conductor Temp: 110°C (Mv/Am) |
|---|---|---|---|---|---|---|
| HFM04/1.5 | 3x1.5 + E1.5 | 80/0.15 | 11.6 | 178 | 26 | 31.20 |
| HFM04/2.5 | 3x2.5 + E2.5 | 132/0.15 | 12.7 | 231 | 34 | 18.70 |
| HFM04/4.0 | 3x4.0 + E2.5 | 212/0.15 | 14.0 | 294 | 45 | 11.60 |
| HFM04/6.0 | 3x6.0 + E2.5 | 189/0.196 | 15.2 | 369 | 58 | 7.74 |
| HFM04/10 | 3x10 + E4 | 309/0.196 | 17.1 | 518 | 80 | 4.48 |
| HFM04/16 | 3x16 + E6 | 489/0.196 | 19.5 | 735 | 106 | 2.84 |
| HFM04/25 | 3x25 + E6 | 756/0.196 | 22.8 | 1044 | 140 | 1.84 |
| HFM04/35 | 3x35 + E10 | 1060/0.196 | 25.6 | 1416 | 173 | 1.31 |
| HFM04/50 | 3x50 + E16 | 1525/0.196 | 30.0 | 1981 | 218 | 0.92 |
| HFM04/70 | 3x70 + E25 | 2162/0.196 | 34.5 | 2746 | 273 | 0.65 |
| HFM04/95 | 3x95 + E25 | 2857/0.196 | 38.2 | 3448 | 327 | 0.50 |
| HFM04/120 | 3x120 + E35 | 3650/0.196 | 42.2 | 4361 | 385 | 0.40 |
| HFM04/150 | 3x150 + E50 | 2184/0.284 | 47.6 | 5546 | 442 | 0.33 |
| HFM04/185 | 3x185 + E70 | 2660/0.284 | 53.1 | 6864 | 503 | 0.29 |
| HFM04/240 | 3x240 + E95 | 3500/0.284 | 59.1 | 8845 | 598 | 0.23 |

*Product table continued over* ▶

# FLEXIBLE MULTI CORE CABLES

## HYPERFLEX™ HFM SERIES continued

| Code | No. of Cores x Size (mm²) | Approx. Stranding no. of Wires x mm | Approx. Overall Diameter (mm) | Approx. Weight (Kg/Km) | Nominal Amps un-enclosed protected from sun @ 30°C fixed installation 3 Phase Touching | 4 Phase Volt Drop @50Hz / MAX. Conductor Temp: 110°C (Mv/Am) |
|---|---|---|---|---|---|---|
| HFM05/1.5 | 4x1.5 + E1.5 | 80/0.15 | 12.5 | 208 | 26 | 31.20 |
| HFM05/2.5 | 4x2.5 + E2.5 | 132/0.15 | 13.7 | 274 | 34 | 18.70 |
| HFM05/4.0 | 4x4.0 + E2.5 | 212/0.15 | 15.3 | 357 | 45 | 11.60 |
| HFM05/6.0 | 4x6.0 + E2.5 | 189/0.196 | 16.7 | 455 | 58 | 7.74 |
| HFM05/10 | 4x10 + E4 | 309/0.196 | 18.8 | 645 | 80 | 4.48 |
| HFM05/16 | 4x16 + E6 | 489/0.196 | 21.5 | 922 | 106 | 2.84 |
| HFM05/25 | 4x25 + E6 | 756/0.196 | 25.7 | 1354 | 140 | 1.84 |
| HFM05/35 | 4x35 + E10 | 1060/0.196 | 28.7 | 1808 | 173 | 1.31 |
| HFM05/50 | 4x50 + E16 | 1525/0.196 | 34.0 | 2549 | 218 | 0.92 |
| HFM05/70 | 4x70 + E25 | 2162/0.196 | 38.9 | 3527 | 273 | 0.65 |
| HFM05/95 | 4x95 + E25 | 2857/0.196 | 43.5 | 4484 | 327 | 0.50 |
| HFM05/120 | 4x120 + E35 | 3650/0.196 | 48.1 | 5663 | 385 | 0.40 |
| HFM05/150 | 4x150 + E50 | 2184/0.284 | 54.1 | 7172 | 442 | 0.33 |
| HFM05/185 | 4x185 + E70 | 2660/0.284 | 60.2 | 8846 | 503 | 0.29 |
| HFM05/240 | 4x240 + E95 | 3500/0.284 | 67.3 | 11439 | 598 | 0.23 |
| HFM07/1.5 | 6x1.5 + E1.5 | 80/0.15 | 13.4 | 246 | 26 | 36.036 |
| HFM07/2.5 | 6x2.5 + E2.5 | 132/0.15 | 14.8 | 329 | 34 | 21.5985 |
| HFM12/1.5 | 11x1.5 + E1.5 | 80/0.15 | 16.9 | 407 | 26 | 36.036 |
| HFM12/2.5 | 11x2.5 + E2.5 | 132/0.15 | 18.8 | 555 | 34 | 21.5985 |
| HFM19/1.5 | 18x1.5 + E1.5 | 80/0.15 | 19.5 | 547 | 26 | 36.036 |
| HFM19/2.5 | 18x2.5 + E2.5 | 132/0.15 | 21.8 | 760 | 34 | 21.5985 |
| HFM27/1.5 | 26x1.5 + E1.5 | 80/0.15 | 23.0 | 798 | 26 | 36.036 |
| HFM27/2.5 | 26x2.5 + E2.5 | 132/0.15 | 26.1 | 1138 | 34 | 21.5985 |
| HFM37/1.5 | 36x1.5 + E1.5 | 80/0.15 | 25.8 | 993 | 26 | 36.036 |

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