



LEDBURN CABLES IS
AN INDEPENDENTLY
OWNED CABLE
DISTRIBUTOR.

MULTICORE CABLES-ARCTIC GRADE CABLE

For use outdoors and where flexibility is required at sub-zero temperatures. The cable remains flexible down to -30°C. Low voltage household appliances under medium mechanical stress.

Applications: For use outdoors and where flexibility is required at sub-zero temperatures. The cable remains flexible down to -30°C. Low voltage household appliances under medium mechanical stress.

Conductors: Plain annealed flexible copper

Insulation: Arctic grade PVC (Polyvinyl chloride)

Core Identification: 2 Core: Blue, Brown, 3 Core: Brown, Blue, Green/Yellow

4 Core: Brown, Grey, Black, Green/Yellow, 5 Core: Brown, Blue, Black, Grey, Green/Yellow, 7 Core: Black Numbered + 1 Green/Yellow

Sheath/ Jacket: Arctic grade PVC (Polyvinyl chloride)

Colour: Blue, yellow or orange (other colours available on request)

Voltage: 300/500V

Operating temperature: Maximum 70°C
Minimum -30°C

Minimum bending radius: 3 x diameter

Short circuit temperature: 160°C

Standards: BS6004

Specification

| Nominal cross section mm ² | Approx overall diameter mm | Current carrying capacity in air (A) | Max conductor DC resistance at 20°C (ohm/km) | Approx weight (kg/km) | Part No. Orange | Part No. Yellow | Part No. Blue |
|---------------------------------------|----------------------------|--------------------------------------|--|-----------------------|-----------------|-----------------|---------------|
| 2 x 0.75 | 6.2 | 13 | 26 | 55 | - | - | - |
| 2 x 1 | 6.6 | 16 | 19.5 | 65 | - | - | - |
| 2 x 1.50 | 7.8 | 20 | 13.3 | 95 | - | 37680 | 37679 |
| 2 x 2.5 | 9.6 | 27 | 7.98 | 145 | - | - | - |
| 2 x 4 | 11.5 | 34 | 4.95 | 210 | - | - | - |
| 3 x 0.75 | 6.6 | 13 | 26 | 65 | - | 37788 | 37218 |
| 3x 1 | 7.0 | 16 | 19.5 | 75 | - | - | 37580 |
| 3 x 1.5 | 8.5 | 20 | 13.3 | 115 | 37724 | 37344 | 37237 |
| 3 x 2.5 | 10.4 | 27 | 7.98 | 175 | - | 37134 | 37235 |
| 3 x 4 | 12.5 | 34 | 4.95 | 260 | - | 37104 | 37207 |
| 3x 6 | 13.0 | 46 | 3.30 | 305 | - | 37682 | - |
| 4 x 0.75 | 7.2 | 13 | 26 | 75 | - | - | - |
| 4 x 1 | 7.9 | 16 | 19.5 | 95 | - | - | - |
| 4 x 1.5 | 9.5 | 20 | 13.3 | 145 | - | 37683 | 37725 |
| 4 x 2.5 | 11.6 | 27 | 7.98 | 220 | - | 37744 | 37767 |
| 4 x 4 | 13.5 | 34 | 4.95 | 315 | - | - | - |
| 4 x 6 | 14.2 | 46 | 3.30 | 382 | - | 37745 | - |
| 5 x 0.75 | 8.1 | 13 | 26 | 100 | - | - | - |
| 5x 1 | 8.6 | 16 | 19.5 | 115 | - | - | - |
| 5 x 1.5 | 10.7 | 20 | 13.3 | 185 | - | 37701 | - |
| 5 x 2.5 | 12.8 | 27 | 7.98 | 275 | - | - | - |
| 5x 4 | 15.1 | 34 | 4.95 | 400 | - | - | - |
| 7 x 1.5 | - | - | - | - | - | 37684 | - |

4H3A,17th Edition-Technical Information

TABLE 4F3A Flexible cords, non-armoured (Copper Conductors)

CURRENT-CARRYING CAPACITY (amperes): and MASS SUPPORTABLE (kg):

| Conductor cross-sectional area | current carrying capacity | | Maximum mass supportable by twin flexible cord (see Regulations 522.7.2 & 559.6.1.5) |
|--------------------------------|---------------------------|------------------|--|
| | single-phase a.c. | three-phase a.c. | |
| 1 | 2 | 3 | 4 |
| (mm ²) | (A) | (A) | (kg) |
| 0.5 | 3 | 3 | 2 |
| 0.75 | 6 | 6 | 3 |
| 1 | 10 | 10 | 5 |
| 1.25 | 13 | - | 5 |
| 1.5 | 16 | 16 | 5 |
| 2.5 | 25 | 20 | 5 |

| | | | |
|---|----|----|---|
| 4 | 32 | 25 | 5 |
|---|----|----|---|

Notes- Where cable is on a reel see the notes to Table 4F1A

Rating factor for ambient temperature

| 60°C thermoplastic or thermosetting insulated cords: | | | | | |
|--|------|------|------|------|------|
| Ambient Temp (°C) | 35 | 40 | 45 | 50 | 55 |
| Rating Factor | 0.91 | 0.82 | 0.71 | 0.58 | 0.41 |

| 90°C thermoplastic or thermosetting insulated cords: | | | | | |
|--|----------|------|------|------|------|
| Ambient Temp (°C) | 35 to 50 | 55 | 60 | 65 | 70 |
| Rating Factor | 1.0 | 0.96 | 0.83 | 0.67 | 0.47 |

| 180°C thermosetting insulated cords: | | | | | | |
|--------------------------------------|-----------|------|------|------|------|------|
| Ambient Temp (°C) | 35 to 120 | 125 | 130 | 135 | 140 | 145 |
| Rating Factor | 1.0 | 0.96 | 0.85 | 0.74 | 0.60 | 0.42 |

| Glass fibre cords: | | | | | | |
|--------------------|-----------|------|------|------|------|------|
| Ambient Temp (°C) | 35 to 150 | 155 | 160 | 165 | 170 | 175 |
| Rating Factor | 1.0 | 0.92 | 0.82 | 0.71 | 0.57 | 0.40 |

TABLE 4F3B

VOLTAGE DROP (per ampere per metre): Conductor operating temperature: 60°C*

| Conductor cross-sectional area (mm ²) | d.c or single-phase a.c. (mV/A/m) | three-phase a.c. (mV/A/m) |
|---|-----------------------------------|---------------------------|
| 1 | 2 | 3 |
| 0.5 | 93 | 80 |
| 0.75 | 62 | 54 |
| 1 | 46 | 40 |
| 1.25 | 37 | - |
| 1.5 | 32 | 27 |
| 2.5 | 19 | 16 |
| 4 | 12 | 10 |

Notes

The tabulated values above are for 60°C thermoplastic or thermosetting insulated flexible cords and for other types of flexible cords they are to be multiplied by the following factors:

| | |
|--|-------------|
| 90°C thermoplastic or thermosetting insulated | 1.09 |
| 180°C thermosetting insulated | 1.31 |
| 185°C glass fibre | 1.43 |

Parts options

| Part No. | Core | Size | Colour/Reference |
|--------------|------|--------------------|------------------|
| 37680 | 2 | 1.5sqmm (Class 5) | Yellow |
| 37679 | 2 | 1.5sqmm (Class 5) | Blue |
| 37788 | 3 | 0.75sqmm (Class 5) | Yellow |
| 37218 | 3 | 0.75sqmm (Class 5) | Blue |
| 37580 | 3 | 1.0sqmm (Class 5) | Yellow |
| 37344 | 3 | 1.5sqmm (Class 5) | Yellow |
| 37237 | 3 | 1.5sqmm (Class 5) | Blue |
| 37724 | 3 | 1.5sqmm (Class 5) | Orange |
| 37134 | 3 | 2.5sqmm (Class 5) | Yellow |
| 37235 | 3 | 2.5sqmm (Class 5) | Blue |
| 37104 | 3 | 4.0sqmm (Class 5) | Yellow |
| 37207 | 3 | 4.0sqmm (Class 5) | Blue |
| 37682 | 3 | 6.0sqmm (Class 5) | Yellow |
| 37683 | 4 | 1.5sqmm (Class 5) | Yellow |
| 37725 | 4 | 1.5sqmm (Class 5) | Blue |
| 37744 | 4 | 2.5sqmm (Class 5) | Yellow |
| 37767 | 4 | 2.5sqmm (Class 5) | Blue |
| 37745 | 4 | 6.0sqmm (Class 5) | Yellow |
| 37701 | 5 | 1.5sqmm (Class 5) | Yellow |
| 37684 | 7 | 1.5sqmm (Class 5) | Yellow |