# XAI Cable Armoured 600/1000V

**Applications:** XAI armoured power and control marine cable suitable as shipwiring and shipboard cable to IEC60092-353

**Conductor:** Plain flexible compacted copper IEC60228 Class 2 conductors

**Insulation:** XL100 (XLPE based compound)

**Core Identification:**
1 Core – Black
2 Core – Black and Light Blue
3 Core – Black, Brown and Light Blue
4 Core – Black, Blue, Brown and White
5 Core and Above – White and numbered

**Bedding:** Halogen free FLAMEBAR®

**Armour:** Plain copper wire braid

**Sheath/Jacket:** Halogen free SHF1 compound

**Colour:** Black

**Operating Temperature:** 100°C

**Voltage:** Nominal Voltage Uo/U: 0.6 / 1kV

**Standards:**
Design and Construction: IEC60092-353
Flame retardancy: IEC60332-1, IEC60332-3-22 (catA)
Corrosivity: IEC60754-1, IEC60754-2
Smoke density: IEC61034-2
Toxicity and smoke density: IMO Resolution MSC 41(64) and ATS 1000.001 tech spec
Cold bend and impact test (-40°C): CSA C22.2 No 38-95

**Approvals:** ABS, Bureau Veritas, DNV, Lloyd's Register & Russian Maritime Register of Shipping
UV Resistant: UL1581

**One Core**

| Construction ($mm^2$) | Conductor diameter approx. (mm) | Insulation thickness nominal (mm) | Under armour diameter approx. (mm) | Outer sheath thickness approx. (mm) | Overall diameter approx. (mm) | Weight approx. (kg/km) | Min bending radius approx. (mm) | Current rating at 45°C in air approx. (A) | BATT Part No. Black |
|---|---|---|---|---|---|---|---|---|---|
| 1 x 1.5 | 1.6 | 0.7 | 3.1 | 1 | 5.9 | 64 | 24 | 28 | - |
| 1 x 2.5 | 2 | 0.7 | 3.5 | 1 | 6.4 | 78 | 26 | 35 | - |
| 1 x 4 | 2.7 | 0.7 | 4.2 | 1 | 7.0 | 101 | 28 | 47 | - |
| 1 x 6 | 3.2 | 0.7 | 4.7 | 1 | 7.6 | 127 | 30 | 58 | - |
| 1 x 10 | 3.9 | 0.7 | 5.6 | 1.1 | 8.6 | 192 | 34 | 70 | - |
| 1 x 16 | 5.1 | 0.7 | 6.8 | 1.1 | 9.8 | 264 | 39 | 93 | 14103 |
| 1 x 25 | 6.7 | 0.9 | 8.8 | 1.2 | 12.0 | 388 | 48 | 117 | 14123 |
| 1 x 35 | 7.4 | 0.9 | 9.8 | 1.2 | 13.1 | 505 | 52 | 147 | 14142 |
| 1 x 50 | 8.8 | 1.0 | 11.1 | 1.3 | 15.1 | 711 | 60 | 180 | 14141 |
| 1 x 70 | 10 | 1.1 | 13.4 | 1.4 | 17.6 | 955 | 70 | 232 | 14102 |
| 1 x 95 | 12.8 | 1.1 | 15.4 | 1.5 | 19.7 | 1239 | 79 | 285 | 14101 |
| 1 x 120 | 14 | 1.2 | 17.3 | 1.6 | 21.8 | 1528 | 87 | 333 | 14299 |
| 1 x 150 | 15.3 | 1.4 | 19.3 | 1.6 | 23.8 | 1859 | 95 | 386 | 14100 |
| 1 x 185 | 16.7 | 1.6 | 20.2 | 1.7 | 24.9 | 2227 | 100 | 444 | 14099 |
| 1 x 240 | 19.8 | 1.7 | 24.2 | 1.8 | 29.2 | 2857 | 117 | 528 | 14131 |
| 1 x 300 | 22.4 | 1.8 | 26.6 | 1.9 | 31.7 | 3494 | 127 | 612 | 14153 |

## Two Core

| Construction (mm²) | Conductor diameter approx. (mm) | Insulation thickness nominal (mm) | Under armour diameter approx. (mm) | Outer sheath thickness approx. (mm) | Overall diameter approx. (mm) | Weight approx. (kg/km) | Min bending radius approx. (mm) | Current rating at 45°C in air approx. (A) | BATT Part No. Black |
|---|---|---|---|---|---|---|---|---|---|
| 2 x 1.5 | 1.6 | 0.7 | 6.1 | 1.1 | 9.1 | 136 | 36 | 23 | 14011 |
| 2 x 2.5 | 2 | 0.7 | 6.9 | 1.1 | 10.0 | 171 | 40 | 31 | 14012 |
| 2 x 4 | 2.7 | 0.7 | 8.2 | 1.2 | 11.5 | 229 | 46 | 43 | 14013 |
| 2 x 6 | 3.2 | 0.7 | 9.3 | 1.2 | 12.6 | 291 | 50 | 55 | 14041 |
| 2 x 10 | 3.9 | 0.7 | 12.0 | 1.3 | 15.9 | 478 | 64 | 75 | 14042 |
| 2 x 16 | 5.1 | 0.7 | 14.6 | 1.4 | 18.7 | 685 | 75 | 100 | 14043 |
| 2 x 25 | 6.7 | 0.9 | 18.9 | 1.6 | 23.5 | 1028 | 94 | 130 | - |
| 2 x 35 | 7.4 | 0.9 | 20.6 | 1.7 | 25.3 | 1272 | 101 | 161 | - |
| 2 x 50 | 8.8 | 1.0 | 23.5 | 1.8 | 28.4 | 1671 | 114 | 196 | - |
| 2 x 70 | 10 | 1.1 | 28.4 | 2.0 | 33.8 | 2259 | 135 | 236 | - |
| 2 x 95 | 12.8 | 1.1 | 32.5 | 2.2 | 38.7 | 3109 | 155 | 287 | - |

## Three Core

| Construction (mm²) | Conductor diameter approx. (mm) | Insulation thickness nominal (mm) | Under armour diameter approx. (mm) | Outer sheath thickness approx. (mm) | Overall diameter approx. (mm) | Weight approx. (kg/km) | Min bending radius approx. (mm) | Current rating at 45°C in air approx. (A) | BATT Part No. Black |
|---|---|---|---|---|---|---|---|---|---|
| 3 x 1.5 | 1.6 | 0.7 | 6.6 | 1.1 | 9.6 | 157 | 38 | 20 | 14014 |
| 3 x 2.5 | 2 | 0.7 | 7.5 | 1.1 | 10.5 | 202 | 42 | 28 | 14015 |
| 3 x 4 | 2.7 | 0.7 | 8.9 | 1.2 | 12.1 | 275 | 48 | 37 | 14016 |
| 3 x 6 | 3.2 | 0.7 | 10.1 | 1.2 | 13.3 | 356 | 53 | 47 | 14017 |
| 3 x 10 | 3.9 | 0.7 | 12.0 | 1.3 | 15.9 | 567 | 64 | 65 | 14018 |
| 3 x 16 | 5.1 | 0.7 | 14.6 | 1.4 | 18.7 | 801 | 75 | 87 | 14019 |
| 3 x 25 | 6.7 | 0.9 | 18.9 | 1.6 | 23.5 | 1218 | 94 | 110 | 14020 |
| 3 x 35 | 7.4 | 0.9 | 20.6 | 1.7 | 25.3 | 1546 | 101 | 137 | 14079 |
| 3 x 50 | 8.8 | 1.0 | 23.5 | 1.8 | 28.4 | 2088 | 114 | 167 | 14066 |
| 3 x 70 | 10 | 1.1 | 28.4 | 2 | 33.8 | 2868 | 135 | 214 | 14058 |
| 3 x 95 | 12.8 | 1.1 | 32.5 | 2.2 | 38.7 | 3831 | 155 | 259 | 14080 |
| 3 x 120 | 14 | 1.2 | 36.7 | 2.3 | 43.0 | 4754 | 172 | 301 | 14094 |
| 3 x 150 | 15.3 | 1.4 | 41.0 | 2.5 | 47.7 | 5841 | 191 | 347 | - |
| 3 x 185 | 16.7 | 1.6 | 42.9 | 2.6 | 49.9 | 6932 | 199 | 397 | - |
| 3 x 240 | 19.8 | 1.7 | 51.7 | 2.9 | 59.2 | 9094 | 237 | 468 | - |
| 3 x 300 | 22.4 | 1.8 | 56.7 | 3.1 | 64.7 | 11039 | 259 | 551 | - |

## Four Core

| Construction ($mm^2$) | Conductor diameter approx. (mm) | Insulation thickness nominal (mm) | Under armour diameter approx. (mm) | Outer sheath thickness approx. (mm) | Overall diameter approx. (mm) | Weight approx. (kg/km) | Min bending radius approx. (mm) | Current rating at 45°C in air approx. (A) | BATT Part No. |
|---|---|---|---|---|---|---|---|---|---|
| 4 x 1.5 | 1.6 | 0.7 | 7.3 | 1.1 | 10.4 | 186 | 42 | 20 | 14021 |
| 4 x 2.5 | 2 | 0.7 | 8.3 | 1.2 | 11.6 | 246 | 46 | 28 | 14022 |
| 4 x 4 | 2.7 | 0.7 | 9.9 | 1.2 | 13.1 | 334 | 52 | 37 | 14023 |
| 4 x 6 | 3.2 | 0.7 | 11.2 | 1.3 | 15.1 | 486 | 60 | 47 | 14024 |
| 4 x 10 | 3.9 | 0.7 | 13.3 | 1.4 | 17.4 | 683 | 70 | 65 | 14044 |
| 4 x 16 | 5.1 | 0.7 | 16.2 | 1.5 | 20.6 | 983 | 82 | 87 | 14045 |
| 4 x 25 | 6.7 | 0.9 | 21.1 | 1.7 | 25.8 | 1477 | 103 | 110 | 14046 |
| 4 x 35 | 7.4 | 0.9 | 22.9 | 1.8 | 27.8 | 1973 | 111 | 137 | 14293 |
| 4 x 50 | 8.8 | 1.0 | 26.1 | 1.9 | 31.3 | 2661 | 125 | 167 | 14104 |
| 4 x 70 | 10 | 1.1 | 31.7 | 2.1 | 37.6 | 3687 | 150 | 214 | - |
| 4 x 95 | 12.8 | 1.1 | 36.2 | 2.3 | 42.6 | 4852 | 170 | 259 | - |
| 4 x 120 | 14 | 1.2 | 40.8 | 2.5 | 47.6 | 6084 | 190 | 301 | - |
| 4 x 150 | 15.3 | 1.4 | 45.6 | 2.7 | 52.8 | 7463 | 211 | 347 | - |
| 4 x 185 | 16.7 | 1.6 | 47.8 | 2.8 | 55.2 | 8932 | 221 | 397 | - |
| 4 x 240 | 19.8 | 1.7 | 57.6 | 3.2 | 65.7 | 11667 | 263 | 468 | - |

## Five Core and Above

| Construction ($mm^2$) | Conductor diameter approx. (mm) | Insulation thickness nominal (mm) | Under armour diameter approx. (mm) | Outer sheath thickness approx. (mm) | Overall diameter approx. (mm) | Weight approx. (kg/km) | Min bending radius approx. (mm) | Current rating at 45°C in air approx. (A) | BATT Part No. |
|---|---|---|---|---|---|---|---|---|---|
| 5 x 1.5 | 1.6 | 0.7 | 8.2 | 1.2 | 11.4 | 222 | 46 | 12 | 14025 |
| 7 x 1.5 | 1.6 | 0.7 | 9.1 | 1.2 | 12.3 | 265 | 49 | 11 | 14026 |
| 10 x 1.5 | 1.6 | 0.7 | 13.3 | 1.3 | 16.0 | 407 | 64 | 10 | 14062 |
| 12 x 1.5 | 1.6 | 0.7 | 12.6 | 1.3 | 16.7 | 462 | 67 | 9 | 14027 |
| 14 x 1.5 | 1.6 | 0.7 | 13.4 | 1.4 | 16.7 | 508 | 67 | 9 | 14195 |
| 16 x 1.5 | 1.6 | 0.7 | 14.2 | 1.4 | 18.4 | 572 | 74 | 8 | 14084 |
| 19 x 1.5 | 1.6 | 0.7 | 15.2 | 1.5 | 19.5 | 652 | 78 | 8 | 14047 |
| 24 x 1.5 | 1.6 | 0.7 | 18.2 | 1.6 | 22.7 | 812 | 91 | 7 | 14056 |
| 27 x 1.5 | 1.6 | 0.7 | 18.6 | 1.6 | 23.1 | 873 | 92 | 7 | - |
| 30 x 1.5 | 1.6 | 0.7 | 19.3 | 1.6 | 23.8 | 943 | 95 | 6 | |
| 37 x 1.5 | 1.6 | 0.7 | 21.1 | 1.7 | 25.8 | 1121 | 103 | 6 | 14057 |
| 5 x 2.5 | 2.0 | 0.7 | 10.7 | 1.3 | 15 | 355 | 60 | 17 | - |
| 7 x 25 | 2.0 | 0.7 | 11.8 | 1.3 | 16 | 424 | 64 | 15 | - |
| 12 x 2.5 | 2.0 | 0.7 | 16.4 | 1.5 | 21 | 671 | 84 | 13 | 14145 |
| 19 x 2.5 | 2.0 | 0.7 | 18.5 | 1.6 | 23 | 856 | 92 | 11 | - |
| 27 x 2.5 | 2.0 | 0.7 | 24.2 | 1.8 | 29 | 1311 | 116 | 9 | - |
| 37 x 2.5 | 2.0 | 0.7 | 27.5 | 2.0 | 33 | 1713 | 132 | 9 | - |