

Alsecure® PLUS Multicore

2 Core + Earth 6mm² 0.6/1.0kV Alsecure Plus Multicore

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ALSECURE® PLUS Mica/X-HF-110/HFS-110-TP 0.6/1 kV Rated Multicore Power Cable

DESCRIPTION

Construction Stranded (Class 2 for 6mm² and below - Class 5 for 10mm² and above) Copper Conductor, Mica Taped, X-HF-110 Insulated, HFS-110-TP Sheathed to AS/NZS 5000.1, 110°C, WS52W Fire Rated to AS/NZS 3013.

Alsecure® Plus Multicore range of Fire Rated cable will maintain circuit integrity and life-saving essential services such as emergency and exit lighting, pumps and fans in the event of a fire.

Other sizes and configurations are available on request subject to minimum order quantities.

Features

- Flexible stranded copper conductor
- Halogen free, low smoke, low toxic and corrosive emissions, and flame retardant materials
- 110°C rated insulation and sheath
- WS52W Fire Rated to AS/NZS 3013

Benefits

- Flexibility for fast, easy installation (10mm² and above)
- Contributes to the green star rating of your project
- Safer evacuation and protection of essential safety systems

The Alsecure Plus product range is suitable for Green Star Buildings as they do not contain any PVC.



STANDARDS

National AS/NZS 3013; AS/NZS 5000.1



Conductor flexibility
Class 2



Rated Voltage U₀/U (Um)
0.6/1 kV



Cable flexibility
Flexible



Maximum operating temperature
110 °C

All drawings, designs, specifications, plans and particulars of weights, size and dimensions contained in the technical or commercial documentation of Nexans is indicative only and shall not be binding on Nexans or be treated as constituting a representation on the part of Nexans.

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CHARACTERISTICS

Construction characteristics

| | |
|--------------------------------|------------|
| Conductor flexibility | Class 2 |
| Conductor material | Copper |
| Conductor shape | Circular |
| Insulation | X-HF-110 |
| Outer sheath | HFS-110-TP |
| With Green/Yellow core | Yes |
| With smaller neutral conductor | No |

Dimensional characteristics

| | |
|--|-------------------|
| Approximate weight | 33.88 kg/100m |
| Conductor cross-section | 6 mm ² |
| Conductor diameter | - mm |
| Neutral conductor section (when smaller) | - mm ² |
| Nominal insulation thickness | 0.7 mm |
| Nominal outer sheath thickness | 1.8 mm |
| Nominal overall diameter | 15.005 mm |
| Number of cores | 2 |

Electrical characteristics

| | |
|---|--------------|
| Conductor AC resistance at 50 Hz | - Ohm/km |
| Inductive reactance at 50Hz | - Ohm/km |
| Insulation resistance at 20°C | - MOhm.km |
| Max. DC resistance of the conductor at 20°C | 3.077 Ohm/km |
| Rated Voltage U _o /U (U _m) | 0.6/1 kV |

Mechanical characteristics















| | |
|-------------------------|----------|
| Cable flexibility | Flexible |
| Maximum Pulling Tension | - kN |

Usage characteristics

| | |
|---|--------|
| Maximum operating temperature | 110 °C |
| Minimum Bend Radius - During Installation (under Tension) | - mm |
| Minimum Bend Radius - Installed | - mm |















ALSECURE PLUS MULTICORE - CURRENT CARRYING CAPACITY TABLE SINGLE PHASE (IN AMPS)

Flexible Copper Conductor (>6mm²), Fixed Copper (≤10mm²) Insulation XLPE-110

| Conductor cross-section [mm ²] |  |  |  |  |  |  |  |
|--|---|---|--|---|---|---|---|
| | Cu | Cu | Cu | Cu | Cu | Cu | Cu |
| 6 | 69 | 65 | 56 | 45 | 33 | 84 | 64 |
|  Unenclosed spaced |  Unenclosed touching |  Enclosed conduit in air |  Enclosed, partially surrounded by thermal insulation | |  Enclosed, completely surrounded by thermal insulation | |  Buried direct |
|  Underground Wiring Enclosure | | | | | | | |

ALSECURE PLUS MULTICORE - CURRENT CARRYING CAPACITY TABLE THREE PHASE (IN AMPS)

Flexible Copper Conductor (>6mm²), Fixed Copper (≤10mm²) Insulation XLPE-110

| Conductor cross-section [mm ²] |  |  |  |  |  |  |  |
|--|---|---|--|---|---|---|---|
| | Cu | Cu | Cu | Cu | Cu | Cu | Cu |
| 6 | 59 | 56 | 47 | 38 | 28 | 71 | 53 |
|  Unenclosed spaced |  Unenclosed touching |  Enclosed conduit in air |  Enclosed, partially surrounded by thermal insulation | |  Enclosed, completely surrounded by thermal insulation | |  Buried direct |
|  Underground Wiring Enclosure | | | | | | | |