

# Alsecure® PLUS Multicore

4 Core + Earth 25mm<sup>2</sup> 0.6/1.0kV Alsecure Plus Flexible Multicore

## Contact

Sales

Phone: 1300 CABLES

olexcustomerservice@nexans.com

Nexans Ref.: PDGX60AA004JBAA

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

## DESCRIPTION

**Construction** Stranded (Class 2 for 6mm<sup>2</sup> and below - Class 5 for 10mm<sup>2</sup> 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 (10mm<sup>2</sup> 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 5**



Rated Voltage U<sub>o</sub>/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.

Generated 9/03/22 www.olex.com.au Page 1 / 3

# Alsecure® PLUS Multicore

4 Core + Earth 25mm<sup>2</sup> 0.6/1.0kV Alsecure Plus Flexible Multicore

## Contact

Sales

Phone: 1300 CABLES

olexcustomerservice@nexans.com

## CHARACTERISTICS

### Construction characteristics

Conductor flexibility	Class 5
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	186.0 kg/100m
Conductor cross-section	25 mm <sup>2</sup>
Conductor diameter	7.1 mm
Neutral conductor section (when smaller)	- mm <sup>2</sup>
Nominal insulation thickness	0.95 mm
Nominal outer sheath thickness	4.3 mm
Nominal overall diameter	32.9 mm
Number of cores	4

### 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	0.78 Ohm/km
Rated Voltage U <sub>0</sub> /U (U <sub>m</sub> )	0.6/1 kV

### Mechanical characteristics

Cable flexibility	Flexible
Maximum Pulling Tension	2.2 kN

### Usage characteristics

Maximum operating temperature	110 °C
Minimum Bend Radius - During Installation (under Tension)	195 mm
Minimum Bend Radius - Installed	130 mm

# Alsecure® PLUS Multicore

4 Core + Earth 25mm<sup>2</sup> 0.6/1.0kV Alsecure Plus Flexible Multicore

## Contact
















Sales

Phone: 1300 CABLES

olexcustomerservice@nexans.com
















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

Flexible Copper Conductor (>6mm<sup>2</sup>), Fixed Copper (≤10mm<sup>2</sup>) Insulation XLPE-110

Conductor cross-section [mm <sup>2</sup> ]	 Cu	 Cu	 Cu	 Cu	 Cu	 Cu	 Cu
25	163	154	129	104	77	182	139
 Unenclosed spaced	 Unenclosed touching		 Enclosed conduit in air		 Enclosed, completely surrounded by thermal insulation		
 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 (>6mm<sup>2</sup>), Fixed Copper (≤10mm<sup>2</sup>) Insulation XLPE-110

Conductor cross-section [mm <sup>2</sup> ]	 Cu	 Cu	 Cu	 Cu	 Cu	 Cu	 Cu
25	140	131	112	90	66	153	118
 Unenclosed spaced	 Unenclosed touching		 Enclosed conduit in air		 Enclosed, completely surrounded by thermal insulation		
 Enclosed, partially surrounded by thermal insulation	 Enclosed, completely surrounded by thermal insulation		 Buried direct		 Underground Wiring Enclosure		

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.

Generated 9/03/22 www.olex.com.au Page 3 / 3