

ALSECURE® Single Core

25mm² Cu 0.6/1.0kV Flexible Alsecure Plus 110C

Contact

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ALSECURE Flexible Plus 110C 25mm² Cu 0.6/1.0kV Red Flame Retardant Fire Safety Power Cable

DESCRIPTION

Construction:

Stranded Flexible (Class 5) Plain Annealed 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® Single Core cables are a range of Fire Rated single core products for use in mains and sub-mains applications.

Rated to 0.6/1kV, 110°C, this Low Fire Hazard (LSZH/LS0H) range of Fire Resistant cables will maintain circuit integrity and life-saving essential services in the event of fire. The ALSECURE® Single Core range is readily available in sizes from 10mm² to 630mm².

Features

- Flexible stranded copper conductor
- Halogen free, low smoke and low corrosive/acid emissions, & flame retardant materials
- 110°C rated insulation and sheath
- WS52W Rated to AS/NZS 3013
- Cat A bunched flame propagation to IEC 60332-3
- RHE-3 to AS/NZS 4507
- Meets physical property requirements of 125°C XLPO insulation to UL 1581

Benefits

- Flexibility for fast, easy installation
- Contributes to the green star rating of your project
- Safer evacuation and better protection for essential building systems

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

Applications

- Fire resistant Power Circuit
- Consumer mains and Subs Mains
- Lift sub mains
- Power Cable to fire pumps and essential circuits



Conductor flexibility
Class 5



Rated Voltage Uo/U (Um)



Cable flexibility
Flexible



Maximum operating temperature
110 °C



STANDARDS

International IEC 60332-3 Cat.A

National AS/NZS 3013; AS/
NZS 4507; AS/NZS 5000.1

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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Voltage
0.6 / 1 KV

Continuous Operating Temperature
110°C

Colours
Insulation - White(Natural)
Outer Sheath - RED



Conductor flexibility
Class 5



Rated Voltage U₀/U (Um)



Cable flexibility
Flexible



Maximum operating temperature
110 °C

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CHARACTERISTICS

Construction characteristics

Colour	Red
Conductor flexibility	Class 5
Conductor material	Copper
Conductor shape	Circular
Insulation	X-HF-110
Outer sheath	HFS-110-TP
Type of conductor	Stranded flexible

Dimensional characteristics

Approximate weight	31.9 kg/100m
Conductor cross-section	25 mm ²
Conductor diameter	6.6 mm
Diameter over insulation	9.6 mm
Nominal insulation thickness	1.0 mm
Nominal outer sheath thickness	1.4 mm
Nominal overall diameter	12.5 mm
Number of cores	1

Electrical characteristics

Conductor AC resistance at 50 Hz	1.06 Ohm/km
Inductive reactance at 50Hz - flat touching	0.113 Ohm/km
Inductive reactance at 50Hz - trefoil	0.0973 Ohm/km
Insulation resistance at 20°C	320 MOhm.km
Max. DC resistance of the conductor at 20°C	0.78 Ohm/km
Rated Voltage U ₀ /U (U _m)	

Mechanical characteristics



















Cable flexibility	Flexible
Maximum Pull Tension of Conductor	0 kN
Maximum Pulling Tension	0.5 kN

Usage characteristics

Fire safety	-
Maximum operating temperature	110 °C
Minimum Bend Radius - During Installation (under Tension)	110 mm
Minimum Bend Radius - Installed	75 mm



















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

Flexible Copper Conductor Insulation X-HF-110 Maximum Conductor Temperature 110C

Conductor cross-section [mm ²]	 Cu	 Cu	 Cu	 Cu	 Cu	 Cu	 Cu	 Cu	 Cu
25	178	170	139	133	106	70	192	143	158
 Unenclosed spaced	 Unenclosed spaced from surface	 Unenclosed touching	 Enclosed conduit in air	 Enclosed, partially surrounded by thermal insulation	 Enclosed, completely surrounded by thermal insulation	 Buried direct	 Underground Wiring Enclosure	 Individual wiring enclosure	

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

Flexible Copper Conductor Insulation X-HF-110 Maximum Conductor Temperature 110C

Conductor cross-section [mm ²]	 Cu	 Cu	 Cu	 Cu	 Cu	 Cu	 Cu	 Cu	 Cu
25	173	149	139	121	97	70	162	125	143
 Unenclosed spaced	 Unenclosed spaced from surface	 Unenclosed touching	 Enclosed conduit in air	 Enclosed, partially surrounded by thermal insulation	 Enclosed, completely surrounded by thermal insulation	 Buried direct	 Underground Wiring Enclosure	 Individual wiring enclosure	

SELLING AND DELIVERY INFORMATION

Nexans Fire Safety Offer ALSECURE® Fire Resistant Cables PVC-free Red List Free and Declare Labelled