

# PVC Insulated Single Core

2.5mm<sup>2</sup> PVC Building Wire Red 100m

**Nexans Ref.:** BAAP07A1001AARD

**EAN 13:** 9319215006921

2.5mm<sup>2</sup> PVC Building Wire Red

## DESCRIPTION

Single Core Building Wires

- Single core,
- 0.6/1kV V-90 insulated,
- to AS/NZS 5000.1 (unsheathed),
- Copper conductors, 90°C.



## STANDARDS

**National** AS/NZS 1125; AS/NZS 5000.1



Conductor flexibility  
**Class 2**



Rated Voltage U<sub>0</sub>/U (Um)  
**0.6/1 kV**



Cable flexibility  
**Rigid**

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

Colour	Red
Conductor flexibility	Class 2
Conductor material	Copper
Conductor shape	Circular
Insulation	V-90
Type of conductor	Stranded copper
With Green/Yellow core	No
With smaller neutral conductor	No

### Dimensional characteristics

Approximate weight	3.2 kg/100m
Cable length	100 m
Conductor cross-section	2.5 mm <sup>2</sup>
Neutral conductor section (when smaller)	- mm <sup>2</sup>
Nominal insulation thickness	0.8 mm
Nominal overall diameter	3.6 mm
Number of cores	1

### Electrical characteristics

















Conductor AC resistance at 50 Hz	9.01 Ohm/km
Inductive reactance at 50Hz - flat touching	0.159 Ohm/km
Inductive reactance at 50Hz - trefoil	0.143 Ohm/km
Insulation resistance at 20°C	10 MOhm.km
Max. DC resistance of the conductor at 20°C	7.41 Ohm/km
Rated Voltage U <sub>0</sub> /U (U <sub>m</sub> )	0.6/1 kV

### Mechanical characteristics

Cable flexibility	Rigid
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## PVC INSULATED - CURRENT CARRYING CAPACITY TABLE SINGLE PHASE (IN AMPS)

Copper Conductor Insulation PVC Maximum Conductor Temperature 75C

Conductor cross-section [mm <sup>2</sup> ]	 Cu	 Cu	 Cu	 Cu	 Cu	 Cu	 Cu	 Cu
2.5	30	29	23	24	20	12	32	36
 Unenclosed spaced	 Unenclosed spaced from surface	 Unenclosed touching						
 Enclosed conduit in air	 Thermal insulation, partially surrounded by thermal insulation	 Thermal insulation, completely surrounded by thermal insulation						
 Underground ducts A - Underground Wiring Enclosure	 Underground ducts B - Individual Wiring Enclosure							

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















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## PVC INSULATED - CURRENT CARRYING CAPACITY TABLE THREE PHASE (IN AMPS)

Copper Conductor Insulation PVC Maximum Conductor Temperature 75C

Conductor cross-section [mm <sup>2</sup> ]								
	Cu	Cu	Cu	Cu	Cu	Cu	Cu	Cu
2.5	29	25	23	21	17	12	27	33
 Unenclosed spaced	 Unenclosed spaced from surface	 Unenclosed touching						
 Enclosed conduit in air	 Thermal insulation, partially surrounded by thermal insulation	 Thermal Insulation, completely surrounded by thermal insulation						
 Underground ducts A - Underground Wiring Enclosure	 Underground ducts B - Individual Wiring Enclosure							