

# PVC Insulated Single Core

6mm<sup>2</sup> PVC Building Wire Blue

Nexans Ref.: BAAP11A1001AABE

EAN 13: 9319215007973

## 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  
Solid class 1



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	
Conductor flexibility	Solid class 1
Conductor material	Copper
Insulation	V-90
Type of conductor	Stranded copper
With Green/Yellow core	No
With smaller neutral conductor	No

### Dimensional characteristics

Approximate weight	7.1 kg/100m
Cable length	100 m
Conductor cross-section	6 mm <sup>2</sup>
Neutral conductor section (when smaller)	- mm <sup>2</sup>
Nominal insulation thickness	1.0 mm
Nominal overall diameter	5.1 mm
Number of cores	1

### Electrical characteristics

Conductor AC resistance at 50 Hz	3.75 Ohm/km
Inductive reactance at 50Hz - flat touching	0.143 Ohm/km
Inductive reactance at 50Hz - trefoil	0.128 Ohm/km
Insulation resistance at 20°C	8.6 MOhm.km
Max. DC resistance of the conductor at 20°C	3.08 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	
6	51	49	40	41	33	20	52	58	
 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 ducts B - Individual	 Underground Wiring Enclosure	 Underground Wiring Enclosure

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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
6	49	42	40	35	28	20	45	53
 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							