PVC Insulated Single Core

6mm2 PVC Building Wire Green/Yellow 500m

Contact
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Nexans Ref.: BAAP11A5001AAHN
Country Ref.: BAAP11A5001AAHN
EAN 13: 9319215008093

6mm2 PVC Building Wire Green/Yellow

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 Uo/U (Um)
0,6/1 kV

Cable flexibility
Rigid

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CHARACTERISTICS

Construction characteristics	
Colour	Green / yellow
Conductor flexibility	Class 2
Conductor material	Copper
Conductor shape	Circular
Insulation	V-90
Type of conductor	Stranded copper
With Green/Yellow core	Yes
Dimensional characteristics	
Approximate weight	7.1 kg/100m
Cable length	500 m
Conductor cross-section	6 mm²
Neutral conductor section (when smaller)	- mm²
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 Uo/U (Um)	0,6/1 kV
Mechanical characteristics	
Cable flexibility	Rigid
Maximum Pulling Tension	0.42 kN
Usage characteristics	
Minimum Bend Radius - During Installation (under Tension)	31 mm
Minimum Bend Radius - Installed	20 mm

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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 [mm²]	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 - Undergound Wiring Enclosure


Underground ducts B - Individual Wiring Enclosure

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

Copper Conductor Insulation PVC Maximum Conductor Temperature 75C

Conductor cross-section [mm²]	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 - Undergound Wiring Enclosure


Underground ducts B - Individual Wiring Enclosure