PVC Insulated Single Core

50mm2 PVC Building Wire Green/Yellow

Contact
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Nexans Ref.: BAAC19AA001AAHN
Country Ref.: BAAC19AA001AAHN
EAN 13: 9319215251171

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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	Compact copper
With Green/Yellow core	Yes
Dimensional characteristics	
Approximate weight	48.0 kg/100m
Cable length	- m
Conductor cross-section	50 mm²
Neutral conductor section (when smaller)	- mm²
Nominal insulation thickness	1.4 mm
Nominal overall diameter	10.9 mm
Number of cores	1
Electrical characteristics	
Conductor AC resistance at 50 Hz	0.471 Ohm/km
Inductive reactance at 50Hz - flat touching	0.111 Ohm/km
Inductive reactance at 50Hz - trefoil	0.096 Ohm/km
Insulation resistance at 20°C	5.2 MOhm.km
Max. DC resistance of the conductor at 20°C	0.387 Ohm/km
Rated Voltage Uo/U (Um)	0,6/1 kV
Mechanical characteristics	
Cable flexibility	Rigid
Maximum Pulling Tension	3.5 kN
Usage characteristics	
Minimum Bend Radius - During Installation (under Tension)	130 mm
Minimum Bend Radius - Installed	87 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
50	187	177	146	138	110	-	168	186


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
50	181	156	146	119	95	-	144	168


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