PVC Insulated Single Core

50mm2 PVC Building Wire Green/Yellow

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

50mm2 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.

Contact Internal Sales Phone: 1300 CABLES

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STANDARDS

National AS/NZS 1125; AS/ NZS 5000.1



Class 2



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. Generated 28/6/24 www.nexans.com.au Page 1 / 3



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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	00		₿ Ø					7/ <u>8</u> 7/ <u>1</u> 60	
[mm²] 50	Cu 187	Cu 177	Cu 146	Cu 138	Cu 110	Cu	Cu 168	Cu 186	
4	4	177	140	150	4	-	100	100	
O Unenclosed spaced		2 Unenclos	ed spaced f	rom surface	ß	Unenclosed t	ouching		
Enclosed conduit in air		Thermal i surrounde	nsulation, p ed by therma	artially al insulation		Thermal Insu surrounded b	lation, comp y thermal ins	letely sulation	
Inderground ducts A - O Undergound Wiring Enclosu	₹/⊠// re _{©©}	Undergro Wiring En		- Individual					

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

Copper Conductor Insulation PVC Maximum Conductor Temperature 75C

Con	ductor cross-section [mm²]	Cu	<u></u> ∭∞ Cu	Cu	⊗ Cu	Cu	Cu	77 6 771 © Cu	77, 5 77,1 80 Cu	
	50	181	156	146	119	95	-	144	168	
	Unenclosed spaced		Unenclos	ed spaced fr	om surface	∌ ι	Jnenclosed to	ouching		
8	Enclosed conduit in air	8	Thermal insulation, partially surrounded by thermal insulation			s	Thermal Insulation, completely surrounded by thermal insulation			
	Underground ducts A - Undergound Wiring Enclosu	re	Undergro Wiring En	und ducts B iclosure	- Individual					

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