

PVC SDI Single Core

6mm² PVC SDI Black Insulation White Sheath 100m

Nexans Ref.: AABP11A1001WTBK

EAN 13: 9322576234513

6mm² PVC SDI Black Insulation White Sheath 100m

DESCRIPTION

Single Core PVC SDI Cable

- Single core, V-90 insulated,
- PVC sheathed to AS/NZS 5000,
- Copper conductors, 90°C.
- 1.0 to 16mm² 450/750V to AS/NZS 5000.2
- Larger sizes; 25 to 630mm² 0.6/1kV to AS/NZS 5000.1 are available on request



STANDARDS

National AS/NZS 1125; AS/NZS 5000.1; AS/NZS 5000.2



Conductor flexibility
Class 2



Rated Voltage Uo/U (Um)
450 / 750 V



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	White / black
Conductor flexibility	Class 2
Conductor material	Copper
Conductor shape	-
Insulation	V-90
Outer sheath	PVC
Type of conductor	Stranded copper
With Green/Yellow core	No
With smaller neutral conductor	No

Dimensional characteristics

Approximate weight	9.4 kg/100m
Cable length	100 m
Conductor cross-section	6 mm ²
Neutral conductor section (when smaller)	- mm ²
Nominal insulation thickness	0.8 mm
Nominal outer sheath thickness	0.9 mm
Nominal overall diameter	6.6 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	7.2 MOhm.km
Max. DC resistance of the conductor at 20°C	3.08 Ohm/km
Rated Voltage U _o /U (U _m)	450 / 750 V

Mechanical characteristics

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

Copper Conductor Insulation PVC Maximum Conductor Temperature 75C

Conductor cross-section [mm ²]	 Cu	 Cu	 Cu	 Cu	 Cu	 Cu	 Cu	 Cu	 Cu
6	51	49	40	41	33	20	71	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 Wiring Enclosure	 Underground ducts B - Individual Wiring Enclosure	 Buried direct	

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




















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

Copper Conductor Insulation PVC Maximum Conductor Temperature 75C

Conductor cross-section [mm ²]										
	Cu	Cu	Cu	Cu	Cu	Cu	Cu	Cu		
6	49	42	40	35	28	20	61	45	53	
 Unenclosed spaced	 Unenclosed spaced from surface	 Unenclosed touching		 Thermal Insulation, completely surrounded by thermal insulation		 Underground ducts B - Individual Wiring Enclosure				
 Enclosed conduit in air	 Thermal insulation, partially surrounded by thermal insulation		 Thermal Insulation, completely surrounded by thermal insulation				 Underground ducts A - Underground Wiring Enclosure			
 Buried direct	 Underground ducts A - Underground Wiring Enclosure		 Thermal Insulation, completely surrounded by thermal insulation				 Underground ducts B - Individual Wiring Enclosure			

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