

# PVC SDI Single Core

2.5mm<sup>2</sup> PVC SDI Black Insulation White Sheath 100m

## Contact

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**Nexans Ref.:** AABP07A1001WTBK

**Country Ref.:** AABP07A1001WTBK

**EAN 13:** 9322576234490

2.5mm<sup>2</sup> 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 16mm<sup>2</sup> 450/750V to AS/NZS 5000.2
- Larger sizes; 25 to 630mm<sup>2</sup> 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**

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### CHARACTERISTICS

#### Construction characteristics

Colour	White / black
Conductor flexibility	Class 2
Conductor material	Copper
Conductor shape	Circular
Insulation	V-90
Outer sheath	PVC
Type of conductor	Stranded copper

#### Dimensional characteristics

Approximate weight	4.8 kg/100m
Cable length	100 m
Conductor cross-section	2.5 mm <sup>2</sup>
Nominal insulation thickness	0.7 mm
Nominal outer sheath thickness	0.8 mm
Nominal overall diameter	5.1 mm
Number of cores	1

#### Electrical characteristics

Conductor AC resistance at 50 Hz	9.01 Ohm/km
Inductive reactance at 50Hz - flat touching	0.159 Ohm/km
Inductive reactance at 50Hz - trefoil	0.143 Ohm/km
Insulation resistance at 20°C	9.2 MOhm.km
Max. DC resistance of the conductor at 20°C	7.41 Ohm/km
Rated Voltage U <sub>o</sub> /U (U <sub>m</sub> )	450/750 V

#### Mechanical characteristics

Cable flexibility	Rigid
Maximum installation tension	175 N

#### Usage characteristics

Minimum Bend Radius - During Installation (under Tension)	31 mm
Minimum Bend Radius - Installed	20 mm

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

















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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 <sup>2</sup> ]									
	Cu	Cu	Cu	Cu	Cu	Cu	Cu	Cu	Cu
2.5	30	29	23	24	20	12	43	32	36
 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						
 Buried direct	 Underground ducts A - Underground Wiring Enclosure			 Underground ducts B - Individual Wiring Enclosure					

## PVC SDI - 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	Cu
2.5	29	25	23	21	17	12	37	27	33
 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						
 Buried direct	 Underground ducts A - Underground Wiring Enclosure			 Underground ducts B - Individual Wiring Enclosure					