PVC SDI Single Core

10mm2 PVC SDI Black Insulation White Sheath 100m

Nexans Ref.: AABP13A1001WVBK
EAN 13: 9322576249630

10mm2 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

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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	14.3 kg/100m
Cable length	100 m
Conductor cross-section	10 mm²
Neutral conductor section (when smaller)	- mm²
Nominal insulation thickness	1.0 mm
Nominal outer sheath thickness	0.9 mm
Nominal overall diameter	7.8 mm
Number of cores	1
Electrical characteristics	
Conductor AC resistance at 50 Hz	2.23 Ohm/km
Inductive reactance at 50Hz - flat touching	0.134 Ohm/km
Inductive reactance at 50Hz - trefoil	0.118 Ohm/km
Insulation resistance at 20°C	7.2 MOhm.km
Max. DC resistance of the conductor at 20°C	1.83 Ohm/km
Rated Voltage Uo/U (Um)	450 / 750 V
Mechanical characteristics	
Cable flexibility	Rigid

PVC SDI - 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	Cu
10	69	67	54	54	44	27	94	69	77

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 - Undergound Wiring Enclosure

Underground ducts B - Individual Wiring Enclosure

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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 [mm²]	 Cu	 Cu	 Cu	 Cu	 Cu	 Cu	 Cu	 Cu	 Cu
10	67	58	54	47	37	27	81	59	70

  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 - Undergound Wiring Enclosure

 Underground ducts B - Individual Wiring Enclosure