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



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



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Page 1 / 3



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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]	∭3 Cu	Cu	Cu	Cu	Cu	Cu	<i>₹//⊠//</i>	₹//∰//}	7/ 2 //2 66 Cu	
10	69	67	54	54	44	27	94	69	77	
Unenclosed spaced	10	○ Unenclo	sed space	closed touc	hing					
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				

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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PVC SDI Single Core 10mm2 PVC SDI Black Insulation White Sheath 100m

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

Copper Conductor Insulation PVC Maximum Conductor Temperature 75C

Conductor cross-section	900	18	80	8					77. 2 77.		
[mm²]	Cu	Cu	Cu	Cu	Cu	Cu	Cu	Cu	Cu		
10	67	58	54	47	37	27	81	59	70		
10 0 0	& Unenclosed spaced from surface					Unenclosed touching					
Enclosed conduit in air	Thermal insulation, partially surrounded by thermal insulation				on		Thermal Insulation, completely surrounded by thermal insulation				
Buried direct	\$1 \ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Onao.g.	round ducts Enclosure	s A - Underg			ground dud Enclosure	cts B - Indiv	idual		



