

PVC SDI Single Core

CU TPS 1X 4 RD WH

Nexans Ref.: AABP09A1001WTRD

EAN 13: 9322576239983

4mm² PVC SDI Red Insulation White Sheath

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



Rated Voltage U_o/U (U_m)
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 / red
Conductor material	Copper
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	7.1 kg/100m
Cable length	100 m
Conductor cross-section	4 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	6.0 mm
Number of cores	1

Electrical characteristics

Conductor AC resistance at 50 Hz	5.61 Ohm/km
Inductive reactance at 50Hz - flat touching	0.152 Ohm/km
Inductive reactance at 50Hz - trefoil	0.137 Ohm/km
Insulation resistance at 20°C	8.5 MOhm.km
Max. DC resistance of the conductor at 20°C	4.61 Ohm/km
Rated Voltage U ₀ /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
4	40	39	31	32	25	16	56	41	47

 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

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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	Cu	
4	38	33	31	28	23	16	49	36	43	
 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		 Underground ducts B - Individual Wiring Enclosure							