

TEST REPORT

Format No. 7.8	Issue Date : 15.12.2023
Test Report No. :	ATCC23121102
Issue To : Securenet Cables and Connectors Pvt Limited, 22 A/5, Cooper Road ,Civil lines ,Allahabad -211001	
Discipline :	Electrical
Group :	Cables & Wires
Quantity of Sample :	100 Meters (Approx)
Identification :	.....
Condition of Sample :	Good
Sample Description :	23 AWG CAT 6 UTP
Embossing/Printing:	SECURENET TYPE CM (UL) E495703 CAT 6 UTP 23 AWG 60°C GIGABIT PERFORMANCE LAN CABLE EI/ATIA 568.C.2. 296/23 32 Mtrs
Reference Specification :	ANSI TIA 568 C.2
Job Order No. :	23121102
Date of Receipt :	11.12.2023
Date of Testing :	13.12.2023 to 14.12.2023
Party Ref. No. & Date :	09.12.2023
Any Other Information, if any :	.....
Test Perform at :	Laboratory

Reviewed by
SADHANA JADON
(Quality Manager)



Authorised Signatory
MANOHAR SINGH JADON
(C.E.O.)

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Sl.No.	Test Conducted, Specification ANSI TIA 568 C.2 & As Per approved Data Sheet	Specified value	Test Results	Conformity
1	Mechanical Requirement			
1.1	Performance category	10 G Base-T	10 G Base-T	yes
1.2	Pair assembly	Four Twisted Pairs	Four Twisted Pairs	yes
1.3	Insulated conductor color code	White-Blue-Blue White-Orange-Orange White-Green-Green White-Brown-Brown	White-Blue-Blue White-Orange-Orange White-Green-Green White-Brown-Brown	yes
1.4	Diameter of Insulated conductor, mm	23 AWG	23 AWG	yes
1.6	Overall Diameter of cable, mm	6.00 mm(approx)	5.90	yes
1.7	Overall Insulated Diameter,mm	1.00 ± 0.005	0.998	yes
1.8	Insulation Material	HDPE	HDPE	yes
1.9	Sheath Thickness	0.5 mm(min.)	0.59	yes
1.1	Sheath Material	PVC	PVC	yes
1.11	Sheath Color	Grey	NA	yes
1.12	Shielding-Aluminium Mylar Tape Thickness	0.025 (nom.)	NA	yes
1.13	Drain Wire (ATC)	0.40 (nom.)	NA	yes
1.14	Filler Material	Polyethylene	Polyethylene	yes
1.15	Core warp	The core may be covered with one or more layers of dielectric material.	Satisfactory	yes
2	Electrical Properties			
2.1	Conductor resistance at 20°C, (ohm/km)	93.8 (Max.)	85.63	yes
2.2	Capacitance test, (nf/km)	56 ± 5	57.14	yes
2.3	Impedance @ 1 Mhz,Ω	100 ± 15	98	yes

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3	Transmission requirement			
3.1	Performance category	10 G Base-T	yes
3.2	Cabel Type	General	General	yes
3.3.1	Return loss @1 MHz,dB			
	Pair 1,2	.....	24.2	yes
	Pair 3,6	.....	24.0	yes
	Pair 4,5	.....	23.9	yes
	Pair 7,8	.....	24.1	yes
3.3.2	Return loss @ 10 MHz,dB			
	Pair 1,2	.....	21.8	yes
	Pair 3,6	.....	22.1	yes
	Pair 4,5	.....	21.5	yes
	Pair 7,8	.....	21.4	yes
3.3.3	Return loss @ 20 MHz,dB			
	Pair 1,2	.....	18.8	yes
	Pair 3,6	.....	19.8	yes
	Pair 4,5	.....	19.1	yes
	Pair 7,8	.....	19.4	yes
3.3.4	Return loss @ 100 MHz,dB			
	Pair 1,2	.....	15.2	yes
	Pair 3,6	.....	14.8	yes
	Pair 4,5	.....	14.9	yes
	Pair 7,8	.....	15.0	yes
3.3.5	Return loss @ 200 MHz,dB			
	Pair 1,2	.....	13.2	yes
	Pair 3,6	.....	12.9	yes
	Pair 4,5	.....	13.1	yes
	Pair 7,8	.....	12.7	yes
3.3.6	Return loss @ 250 MHz,dB			
	Pair 1,2	.....	12.7	yes
	Pair 3,6	.....	12.3	yes
	Pair 4,5	.....	11.9	yes
	Pair 7,8	.....	11.4	yes
3.3.7	Attenuation @ 1 MHz,dB/100 m			
	Pair 1,2	.....	1.1	yes
	Pair 3,6	.....	0.8	yes
	Pair 4,5	.....	0.7	yes
	Pair 7,8	.....	1.1	yes
3.3.8	Attenuation @ 10 MHz,dB/100 m			
	Pair 1,2	3.9	yes
	Pair 3,6	4.2	yes
	Pair 4,5	3.7	yes
	Pair 7,8	3.5	yes

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3.3.9	Attenuation @ 20 MHz,dB/100 m			
	Pair 1,2		6.7	yes
	Pair 3,6		7.0	yes
	Pair 4,5		7.1	yes
	Pair 7,8		6.8	yes
3.3.10	Attenuation @ 100 MHz,dB/100 m			
	Pair 1,2		9.0	yes
	Pair 3,6		8.8	yes
	Pair 4,5		9.2	yes
	Pair 7,8		8.7	yes
3.3.11	Attenuation @ 200 MHz,dB/100 m			
	Pair 1,2		11.8	yes
	Pair 3,6		11.2	yes
	Pair 4,5		11.5	yes
	Pair 7,8		11.2	yes
3.3.11	Attenuation @ 250 MHz,dB/100 m			
	Pair 1,2		13.9	yes
	Pair 3,6		13.2	yes
	Pair 4,5		13.1	yes
	Pair 7,8		13.6	yes
3.3.12	NEXT loss @ 1 MHz			
	Pair 1,2-3,6		76.1	yes
	Pair 1,2-4,5		74.2	yes
	Pair 1,2-7,8		75.8	yes
	Pair 3,6-4,5		76.6	yes
	Pair 3,6-7,8		75.4	yes
	Pair 4,5-7,8		74.9	yes
3.3.13	NEXT loss @ 10 MHz			
	Pair 1,2-3,6		73.1	yes
	Pair 1,2-4,5		72.8	yes
	Pair 1,2-7,8		73.5	yes
	Pair 3,6-4,5		72.6	yes
	Pair 3,6-7,8		73.4	yes
	Pair 4,5-7,8		72.8	yes
	NEXT loss @ 20 MHz			
	Pair 1,2-3,6		61.2	yes
	Pair 1,2-4,5		62.3	yes
	Pair 1,2-7,8		60.8	yes
	Pair 3,6-4,5		59.6	yes
	Pair 3,6-7,8		60.4	yes
	Pair 4,5-7,8		61.3	yes

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3.3.14	NEXT loss @100 MHZ			
	Pair 1,2-3,6		57.4	yes
	Pair 1,2-4,5		56.8	yes
	Pair 1,2-7,8		57.8	yes
	Pair 3,6-4,5		57.5	yes
	Pair 3,6-7,8		57.3	yes
	Pair 4,5-7,8		57.8	yes
3.3.15	NEXT loss @ 200 MHZ			
	Pair 1,2-3,6		42.4	yes
	Pair 1,2-4,5		42.1	yes
	Pair 1,2-7,8		41.7	yes
	Pair 3,6-4,5		42.6	yes
	Pair 3,6-7,8		42.9	yes
	Pair 4,5-7,8		41.3	yes
3.3.16	NEXT loss @ 250 MHZ			
	Pair 1,2-3,6		39.6	yes
	Pair 1,2-4,5		39.2	yes
	Pair 1,2-7,8		38.7	yes
	Pair 3,6-4,5		39.9	yes
	Pair 3,6-7,8		39.5	yes
	Pair 4,5-7,8		38.9	yes

REMARKS : The sample confirms to the above requirements specified in ANSI/TIA 568 C.2 & As Per approved Data Sheet

Note: Any deviation from the standard, test method/specification- NIL

XXXXXXXXXX END OF TEST REPORT XXXXXXXXXXXX

Notes : (1). This Test Report refers only to the particular sample(s) submitted for testing. (2) This Test Report shall not be reproduced, except in full, unless written permission for the publication of an approved abstract has been obtained from the CEO, Amit Test and Calibration Centre, New Delhi. (3) Test Report shall not be utilized for any legal purpose and will not be produced in the court of law & no responsibility would be attached Amit Test and Calibration Centre. (4) The test results reported in this certificate are valid at the time of and under the stated conditions of measurements.

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