

TEST REPORT

Format No. 7.8	Issue Date : 19.12.2023
Test Report No. :	ATCC23121105
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 :	25 Meters (Approx)
Identification :
Condition of Sample :	Good
Sample Description :	4Pair 23 AWG CAT 6 UTP ARMoured
Embossing/Printing:	SECURENET CAT 6 UTP ARMoured 60°C GIGABIT PERFORMANCE LAN CABLE EIA/TIA 568.C.2 306/23 281 METER
Reference Specification :	ANSI TIA 568 C.2 & As per customer request
Job Order No. :	23121105
Date of Receipt :	11.12.2023
Date of Testing :	16.12.2023 to 18.12.2023
Party Ref. No. & Date :
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	Specified value	Test Results	Conformity
	ANSI TIA 568 C.2 & As Per approved Data Sheet			
1	Mechanical Requirement			
1.1	Performance category		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	yes
1.6	Overall Diameter of cable, mm	9.50 mm(approx)	10.05	yes
1.7	Overall Insulated Diameter,mm	1.00 ± 0.005	1.02	yes
1.8	Insulation Material	HDPE	HDPE	yes
1.9	Sheath Thickness	0.85 mm(nOM.)	0.93	yes
1.1	Sheath Material	PVC	PVC	yes
1.11	Sheath Color	Black	Black	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.)	87.05	yes
2.2	Capacitance test, (nf/km)	56 ± 5	56.85	yes
2.3	Impedance @ 1 Mhz,Ω	100 ± 15 %	101	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		21.1	yes
	Pair 3,6		21.4	yes
	Pair 4,5		21.1	yes
	Pair 7,8		21.2	yes
3.3.2	Return loss @ 10 MHz,dB			
	Pair 1,2		28.5	yes
	Pair 3,6		28.2	yes
	Pair 4,5		28.5	yes
	Pair 7,8		28.1	yes
3.3.3	Return loss @ 20 MHz,dB			
	Pair 1,2		29.6	yes
	Pair 3,6		30.2	yes
	Pair 4,5		29.8	yes
	Pair 7,8		30.4	yes
3.3.4	Return loss @ 100 MHz,dB			
	Pair 1,2		21.4	yes
	Pair 3,6		21.2	yes
	Pair 4,5		21.5	yes
	Pair 7,8		21.6	yes
3.3.5	Return loss @ 200 MHz,dB			
	Pair 1,2		18.9	yes
	Pair 3,6		18.1	yes
	Pair 4,5		18.5	yes
	Pair 7,8		18.0	yes
3.3.6	Return loss @ 250 MHz,dB			
	Pair 1,2		16.9	yes
	Pair 3,6		16.4	yes
	Pair 4,5		16.2	yes
	Pair 7,8		16.5	yes
3.4.1	Attenuation @ 1 MHz,dB/100 m			
	Pair 1,2		0.8	yes
	Pair 3,6		0.8	yes
	Pair 4,5		1.2	yes
	Pair 7,8		0.8	yes

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3.4.2	Attenuation @ 10 MHz,dB/100 m			
	Pair 1,2		1.8	yes
	Pair 3,6		2.4	yes
	Pair 4,5		2.2	yes
	Pair 7,8		2.0	yes
3.4.3	Attenuation @ 20 MHz,dB/100 m			
	Pair 1,2		3.3	yes
	Pair 3,6		3.5	yes
	Pair 4,5		3.5	yes
	Pair 7,8		3.8	yes
3.4.4	Attenuation @ 100 MHz,dB/100 m			
	Pair 1,2		4.8	yes
	Pair 3,6		5.2	yes
	Pair 4,5		4.9	yes
	Pair 7,8		5.4	yes
3.4.5	Attenuation @ 200 MHz,dB/100 m			
	Pair 1,2		6.5	yes
	Pair 3,6		6.9	yes
	Pair 4,5		7.2	yes
	Pair 7,8		7.5	yes
3.4.6	Attenuation @ 250 MHz,dB/100 m			
	Pair 1,2		7.9	yes
	Pair 3,6		8.4	yes
	Pair 4,5		8.8	yes
	Pair 7,8		8.2	yes
3.5.1	NEXT loss @ 1 MHz			
	Pair 1,2-3,6		90.9	yes
	Pair 1,2-4,5		91.2	yes
	Pair 1,2-7,8		92.3	yes
	Pair 3,6-4,5		93.8	yes
	Pair 3,6-7,8		93.5	yes
	Pair 4,5-7,8		92.1	yes
3.5.2	NEXT loss @ 10 MHz			
	Pair 1,2-3,6		86.5	yes
	Pair 1,2-4,5		86.2	yes
	Pair 1,2-7,8		86.5	yes
	Pair 3,6-4,5		86.1	yes
	Pair 3,6-7,8		86.5	yes
	Pair 4,5-7,8		86.0	yes

Sadhana

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Manohar

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3.5.3	NEXT loss @ 20 MHz			
	Pair 1,2-3,6		78.2	yes
	Pair 1,2-4,5		79.3	yes
	Pair 1,2-7,8		80.2	yes
	Pair 3,6-4,5		79.1	yes
	Pair 3,6-7,8		79.5	yes
	Pair 4,5-7,8		81.2	yes
3.5.4	NEXT loss @100 MHz			
	Pair 1,2-3,6		71.5	yes
	Pair 1,2-4,5		70.2	yes
	Pair 1,2-7,8		71.5	yes
	Pair 3,6-4,5		70.2	yes
	Pair 3,6-7,8		71.6	yes
	Pair 4,5-7,8		71.9	yes
3.5.5	NEXT loss @ 200 MHz			
	Pair 1,2-3,6		65.2	yes
	Pair 1,2-4,5		64.7	yes
	Pair 1,2-7,8		63.9	yes
	Pair 3,6-4,5		64.2	yes
	Pair 3,6-7,8		65.2	yes
	Pair 4,5-7,8		65.9	yes
3.5.6	NEXT loss @ 250 MHz			
	Pair 1,2-3,6		54.9	yes
	Pair 1,2-4,5		55.9	yes
	Pair 1,2-7,8		56.3	yes
	Pair 3,6-4,5		55.9	yes
	Pair 3,6-7,8		54.2	yes
	Pair 4,5-7,8		56.5	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

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