



مختبرات ويمبي ش.ذ.م.م.
WIMPEY LABORATORIES L.L.C.

LABORATORY TEST REPORT	
IEC 61156-1:2023 Multicore and symmetrical pair/quad cables for digital communications - Part 1: Generic specification	
Report No.	: WLR23/ETI/068/01
Sample No.	: WS23/ETI/068/01
Client Name	: Tabseer Group
Address	: 6321 Al Olaya, Alsaafa Riyadh 13321 3159, KSA
Testing Laboratory	:  WIMPEY LABORATORIES L.L.C.
Address	: Al Quoz Ind. Area-01, Dubai - UAE
Test Item Description	: Ethernet Cables
Manufacturer	: AMAR MISR FOR (CABLES & APPLIANCES INDUSTRY) AMC
Brand / Trade Mark	: Ecab
Model/Type Ref.	: 8544600011 / EU6L-0423-WH
Country of Origin	: Egypt
Sample Code	: N/A
Test Standard / Method	: IEC 61156-1:2023
Report Date	: 05/04/2023
Test Item Received	: 21/03/2023
Date of Test	: 25/03/2023 - 04/04/2023
Tested By	: VVS
Summary of Testing	: The below test parameter complies with the specification of IEC 61156-1:2023.



RESULTS

Test Environmental Conditions

Temperature (°C) : 23 ±2 °C
Relative Humidity (%) : 55 ±5%

Clause	Requirement - Test	Result - Remark	Verdict
6.2	Electrical Characteristics and tests		
6.2.1	Conductor Resistance		
	Measured max. resistance value	93.76Ω / km	P
6.2.3	Dielectric Strength		
	Applied voltage	1500V	P
	Duration	1min.	P
	Observation	No flashover or breakdown	P
6.2.4	Insulation Resistance		
	Applied voltage	500VDC	P
	Duration	1min.	P
	Measured resistance value	> 500 MΩ / km	P
6.3	Transmission Characteristics		
6.3.3	Attenuation	see test results	P
6.3.5	Near-end crosstalk	see test results	P
6.3.6	Far-end crosstalk	see test results	P
6.3.11	Return loss	see test results	P
Test Results			
PASS	Worst case margin		Worst case value
	MAIN	SR	MAIN SR
Worst pair	1,2 - 3,5	3,6 - 7,8	4,5 - 7,8 3,6 - 7,8
NEXT (db)	3.5	2.7	7.7 4.2
Freq. (MHZ)	160.0	271.0	490.0 454.0
Limit (db)	38.5	34.8	26.9 28.0



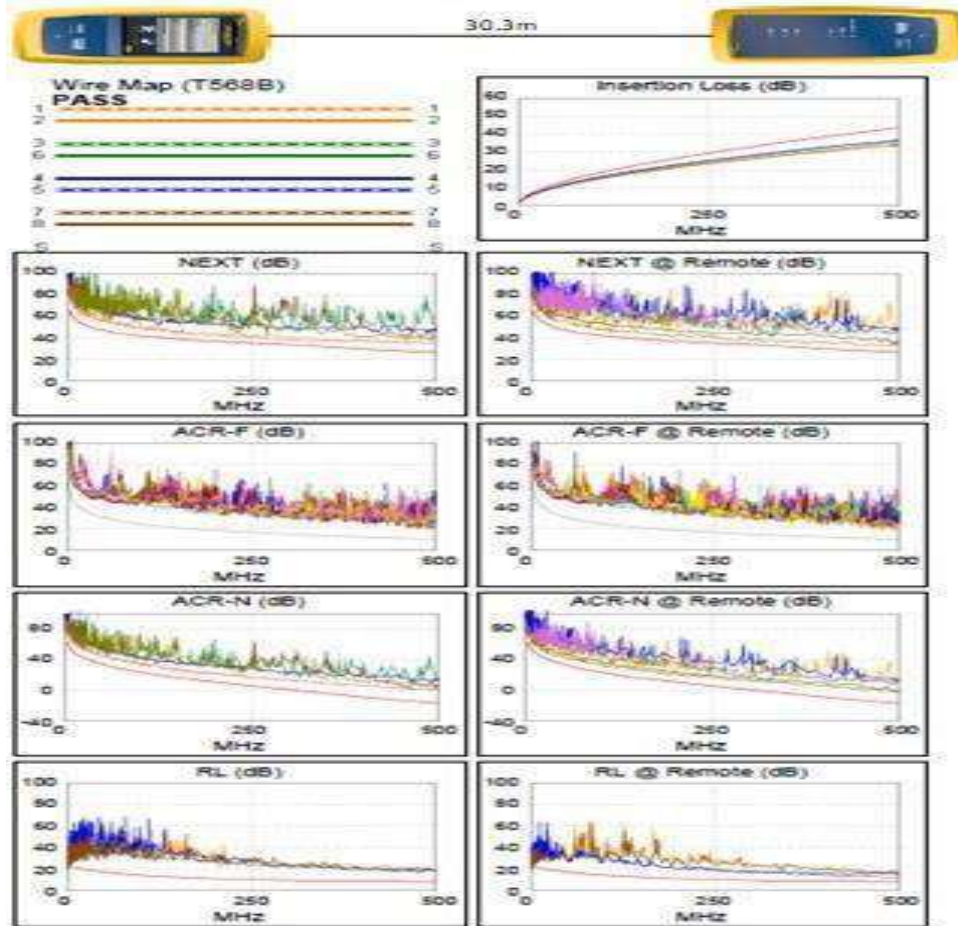
مختبرات ويمبي ش.ذ.م.م.
WIMPEY LABORATORIES L.L.C.

Worst pair	1,2	3,6	4,5	3,6
PS NEXT (db)	5.6	3.5	8.2	6.4
Freq. (MHZ)	160.0	107.0	461.0	496.0
Limit (db)	35.9	38.8	25.0	23.9
PASS	MAIN	SR	MAIN	SR
Worst pair	1,2 - 3,6	1,2 - 3,6	1,2 - 3,6	7,6 - 4,5
ACR-F (db)	9.4	8.7	9.4	9
Freq. (MHZ)	463.0	467.0	463.0	497.0
Limit (db)	10.9	10.8	10.9	10.3
Worst pair	4,5	4,5	4,5	4,5
PS ACR-F (db)	11.1	9.7	11.1	9.7
Freq. (MHZ)	486.0	500.0	486.0	500.0
Limit (db)	7.5	7.2	7.5	7.2
N/A	MAIN	SR	MAIN	SR
Worst pair	1,2 - 3,6	1,2 - 3,6	4,5 - 7,8	3,6 - 4,5
ACR-N (db)	6.9	5.9	16.7	14.7
Freq. (MHZ)	159.5	107.5	490.0	496.0
Limit (db)	15.5	22.7	-16.3	-16.8
Worst pair	3,6	3,6	4,5	3,6
PS ACR-N (db)	9.2	6.2	16.8	13.8
Freq. (MHZ)	159.5	107.0	500.0	496.0
Limit (db)	12.9	20.2	-20.0	-19.7
PASS	MAIN	SR	MAIN	SR
Worst pair	7,8	3,6	4,5	3,6
RL (db)	5.2	3.3	8.6	3.3
Freq. (MHZ)	6.1	500.0	480.0	500.0
Limit (db)	21.0	8.0	8.0	8.0



مختبرات ويمبي ش.ذ.م.م.
WIMPEY LABORATORIES L.L.C.

Graph



Clause	Requirement - Test	Result - Remark	Verdict
6.4	Mechanical and dimensional characteristics and requirements		
6.4.1	Measurement of dimensions		
	Outerdiameter	6.32 mm	P
	Thickness of sheath	1.02 mm	P
6.4.2	Elongation of break of the conductor	>17%	P
6.4.3	Tensile strength of the insulation	>10.5 N/mm ²	P
6.4.4	Elongation of break of the insulation	> 155%	P



مختبرات ويمبي ش.ذ.م.م.
WIMPEY LABORATORIES L.L.C.

Possible Test Case Verdicts:

- | | |
|--|------------|
| -test case does not apply to the test object | : N/A |
| -test case does not conduct to the test object | : N/C |
| -test object does meet the requirement | : P (Pass) |
| -test object does not meet the requirement | : F (Fail) |

Remarks: Nil

Signed for and on behalf of Wimpey Laboratories L.L.C

Visakh S Nair

Laboratory Manager

Test results relate only to the samples tested.

This report shall not be reproduced except in full, without the written approval of the Laboratory.

-End of text-

