 Sri Lanka Telecom One Country. One Voice.	Specification for OSP Material UTP Cables - CAT5E OQMS SGD 037	Issue No. : 01 Date of Issue : 07-Oct-2014 Revision No. : Nil Date of Revision : Nil Page : 1 of 5
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1 Scope


This specification covers the requirements to satisfy the UTP Cables – CAT5E used in structured cabling for computer networks in Sri Lanka Telecom in provisioning data services

2 Characteristics and Requirements

Following requirements in Table 1 shall be satisfied by the product.

No.		Feature	SLT Requirement	Complied/ Not
1.	General	1.1 Product Description	CAT5e, 4 Pair, 24AWG, 305m, UTP Cable Box	
		1.2 Outer Colour	White/ Gray	
		1.3 Inner cable Colour code	Blue/White-Blue, Orange/White-Orange/Green/White-Green, Brown/White-Brown	
2.	Standards	2.1 Communication Standard	TIA/EIA 568-B	
		2.2 Fire Performance	Test for IEC 30332-3	
3.	Material	3.1 Conductor	Solid Copper	
		3.2 Outer Jacket	PVC/PE	
		3.3 Sheathing	PVC	
		3.4 Insulation	PE	
4.	Characteristics	4.1 Spectral Bandwidth	100 MHz	
		4.2 Attenuation (Max at 100 MHz)	22 dB	
		4.3 Characteristic Impedance	100 ohms + 15%	
		4.4 NEXT (Min at 100 MHz)	35.3 dB	
		4.5 PS-NEXT (Min at 100Mhz)	32.3 dB	
		4.6 Return Loss (Min at 100 MHz)	20.1 dB	
		4.7 Delay Skew (Max per 100m)	45 ns	
5.	Other Requirements	5.1 Cable Length in Each Box	305m	
		5.2 Certifiable Length	100m	

Contd...

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No.		Feature	SLT Requirement	Complied/ Not
6.	Markings & Packaging	6.1 Cable Marking	<ul style="list-style-type: none"> Cable Type, Standard, Sequential Marking at 1m intervals – (<i>The length numbering shall be in reverse order so that user can ensure the length available in the remaining reel (Highest number outermost)</i>) 	
		6.2 Package Marking	SLT Logo*, Length of Cable, Cable Type, Manufacturer's Name, Month & Year of Manufacturing	

Table 1


* Note: Branding Unit approved SLT Logo is given below.



3 Supplier Compliance Sheet – to be filled by the supplier – in Page 3


4 QA Section Test Report – to be filled by the QA Staff – in Page 4

5 Field Report Format – to be filled by the field staff – in Page 5

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Supplier Compliance Sheet – to be filled by the supplier

No.		Feature	SLT Requirement	Complied/Not
1.	General	1.1 Product Description	CAT5e, 4 Pair, 24AWG, 305m, UTP Cable Box	
		1.2 Outer Colour	Gray	
		1.3 Inner cable Colour code	Blue/White-Blue, Orange/White-Orange/Green/White-Green, Brown/White-Brown	
2.	Standards	2.1 Communication Standard	TIA/EIA 568-B	
		2.2 Fire Performance	Test for IEC 30332-3	
3.	Material	3.1 Conductor	Solid Copper	
		3.2 Outer Jacket	PVC/PE	
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		4.6 Return Loss (Min at 100 MHz)	20.1 dB	
		4.7 Delay Skew (Max per 100m)	45 ns	
5.	Other Requirements	5.1 Cable Length in Each Box	305m	
		5.2 Certifiable Length	100m	
6.	Markings & Packaging	6.1 Cable Marking	Cable Type, Standard, Sequential Marking at 1m intervals – The length numbering shall be in reverse order so that user can ensure the length available in the remaining reel (Highest number outermost)	
		6.2 Package Marking	SLT Logo, Length of Cable, Cable Type, Manufacturer's Name, Month & Year of Manufacturing	
	Signature:	Company:	
	Name:		
	Date:		

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QA Section Test Report – to be filled by the QA Staff

No		Feature	SLT Requirement	Measurement/ Observation
1.	General	1.1 Product Description	CAT5e, 4 Pair, 24AWG, 305m, UTP Cable Box	
		1.2 Outer Colour	Gray	
		1.3 Inner cable Colour code	Blue/White-Blue, Orange/White-Orange/Green/White-Green, Brown/White-Brown	
2.	Standards	2.1 Communication Standard	TIA/EIA 568-B	
		2.2 Fire Performance	Test for IEC 30332-3	
3.	Material	3.1 Conductor	Solid Copper	
		3.2 Outer Jacket	PVC/PE	
		3.3 Sheathing	PVC	
		3.4 Insulation	PE	
4.	Characteristics	4.1 Spectral Bandwidth	100 MHz	
		4.2 Attenuation (Max at 100 MHz)	22 dB	
		4.3 Characteristic Impedance	100 ohms + 15%	
		4.4 NEXT (Min at 100 MHz)	35.3 dB	
		4.5 PS-NEXT (Min at 100MHz)	32.3 dB	
		4.6 Return Loss (Min at 100 MHz)	20.1 dB	
		4.7 Delay Skew (Max per 100m)	45 ns	
5.	Other Requirements	5.1 Cable Length in Each Box	305m	
		5.2 Certifiable Length	100m	
7.	Markings & Packaging	6.1 Cable Marking	Cable Type, Standard, Sequential Marking at 1m intervals – The length numbering shall be in reverse order so that user can ensure the length available in the remaining reel (Highest number outermost)	
		6.2 Package Marking	SLT Logo, Length of Cable, Cable Type, Manufacturer's Name, Month & Year of Manufacturing	
	Signature: Name: Emp. No:	<div> <div>.....</div> <div>.....</div> <div>.....</div> </div> <div>Date:</div>		

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Field Report Format – to be filled by the field staff

Material Description: CAT 5e Cable

Part No:

Area Installed:

No	Observations/ Experience at the Installation/ subsequent	Comment
1.	It is a 4 pair cable	Yes/ No
2.	Outer colour is Gray	Yes/ No
3.	Inner cable code is correct. 1.1 st pair Orange white/Orange 2. 2 nd pair Green white/Green 3. 3 rd Pair Blue white/Blue 4. 4 th pair Brown white /Brown	Yes/No
4.	Compatible with RJ 45 Connector	Yes/No
5.	Easy to remove insulation	Yes/No
6.	After make the connector ,availability of continuity?	Yes/No
7.	Attenuation in dB	
8.	Easy to handle.	Yes/No
9.	Manufacture name, year ,month and SLT identity shall mark the wire in 1meter intervals.	Yes/No
10	Availability of Copper conductor	Yes/No
11	How many cable meters in a pack	
12	Cable type, standard & sequential marking at 1m interval(length numbering-highest number in outermost)	
13.	SLT Logo, cable designation manufacturer's name, ,manufacturing year and month mentioned on the package or reel..	Available/Not
14.	Recommendation to install in SLT network	Recommended/ Not Recommended
15..	Signature..... Service No.....	Date:.....