 Sri Lanka Telecom One Country. One Voice.	Specification for OSP Material UTP Cables – CAT6 OQMS SGD 042	Issue No. : 01 Date of Issue : 23-Jun-2015 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 – CAT6 used in structured cabling for computer networks in Sri Lanka Telecom in provisioning data services

2 Characteristics and Requirements

Following Technical Requirements shall be satisfied by the product.

Item No	Description	SLT Requirement
1.	Temperature	(60-75) °C
2.	Flammability Grade	CM/CMP/CMR
3.	Standards-NEC/(UL) Specification	IEC Specification – UL 444 UL910
		TIA/EIA Specification- ISO/IEC 11801 Category 6
	Construction	
4.	Conductor Material	Solid Bare Copper
5.	Thickness	23AWG
6.	Number of Pairs	4
7.	Insulation Material	HDPE/FR-PE
8.	Min Thickness	0.20mm
9.	Average Thickness (±0.03mm)	0.21mm
10.	Diameter (±0.03mm)	1.0mm
11.	Twisting Lay Length (mm)	30 underneath
12.	Cabling lay Length (±10mm)	140

Continued...

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Item No	Description	SLT Requirement
13.	Filler	HDPE
14.	Jacket	PVC /LSZH
15.	Average Thickness	0.5mm
16.	Outer Diameter(± 0.3 mm)	5.9mm
17.	Minimum bend radius	23.6mm
18.	Maximum Pulling strength	(100-110)N
19.	Jacket tensile strength	$\geq (9.0-9.7)$ Mpa
20.	Insulation Colours	Blue, White/Blue
		Orange, White/Orange
		Green, White/Green
		Brown, White/Brown
21.	Jacket colour	Optional

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

Item No	Description	SLT Requirement	Complied/ Not Complied
1.	Temperature	(60-75) °C	
2.	Flammability Grade	CM/CMP/CMR	
3.	Standards-NEC/(UL) Specification	IEC Specification – UL 444 UL910	
		TIA/EIA Specification- ISO/IEC 11801 Category 6	
	Construction		
4.	Conductor Material	Solid Bare Copper	
5.	Thickness	23AWG	
6.	Number of Pairs	4	
7.	Insulation Material	HDPE/FR-PE	
8.	Min Thickness	0.20mm	
9.	Average Thickness (±0.03mm)	0.21mm	
10.	Diameter (±0.03mm)	1.0mm	
11.	Twisting Lay Length (mm)	30 underneath	
12.	Cabling lay Length (±10mm)	140	
13.	Filler	HDPE	
14.	Jacket	PVC /LSZH	
15.	Average Thickness	0.5mm	
16.	Outer Diameter(±0.3mm)	5.9mm	
17.	Minimum bend radius	23.6mm	
18.	Maximum Pulling strength	(100-110)N	
19.	Jacket tensile strength	>= (9.0-9.7)Mpa	
20.	Insulation Colours	Blue, White/Blue	
		Orange, White/Orange	
		Green, White/Green	
		Brown, White/Brown	
21.	Jacket colour	Optional	

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

No.		Feature	SLT Requirement	Measurement/ Observation
1.		Temperature	(60-75) °C	
		Flammability Grade	CM/CMP/CMR	
		Standards-NEC/(UL) Specification	IEC Specification – UL 444 UL910	
2.			TIA/EIA Specification- ISO/IEC 11801 Category 6	
		Construction		
3.		Conductor Material	Solid Bare Copper	
		Thickness	23AWG	
		Number of Pairs	4	
		Insulation Material	HDPE/FR-PE	
4.		Min Thickness	0.20mm	
		Average Thickness (±0.03mm)	0.21mm	
		Diameter (±0.03mm)	1.0mm	
		Twisting Lay Length (mm)	30 underneath	
		Cabling lay Length (±10mm)	140	
		Filler	HDPE	
		Jacket	PVC /LSZH	
5.		Average Thickness	0.5mm	
		Outer Diameter(±0.3mm)	5.9mm	
1.		Minimum bend radius	23.6mm	
		Maximum Pulling strength	(100-110)N	
		Jacket tensile strength	>= (9.0-9.7)Mpa	
		Insulation Colours	Blue, White/Blue	
			Orange, White/Orange	
			Green, White/Green	
			Brown, White/Brown	
		Jacket colour	Optional	
	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 6 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	
3.	Inner cable code is correct. 1.1 st pair Blue, White/Blue 2. 2 nd pair Orange, White/Orange 3. 3 rd Pair Green, White/Green 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.	Manufacturer 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:.....