Sample O&M Manual



Gem Cable Communications Unit C, Oakleaf Court, Ryehill Close, Lodge Farm, Northampton NN5 7UA

T. +44 (0) 844 921 0191 F. +44 (0) 844 921 0195 http://www.gemcable.com enquiries@gemcable.com

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FROM	Pete Adkins				
COMPAN	Y xxxxx		FAX	No.	
OUR REF	. xxxx			DATE	XXXXX
SUBJECT Cat.5e Structured Cabling Installation, xxxxx. TOTAL F				TOTAL PAGES 6	

This document comprises the Operations and Maintenance manual for the **Austin Taylor** Category 5e UTP Copper cabling system installed on the xxth floor of xxxxxx for xxxx.

All horizontal copper cabling is terminated on Category 5e outlets (these being broken down by type below), with data cabling routing back to the Comms Room on the same floor and terminated on Austin Taylor Category 5e panels.

The final distribution of outlet types is as follows:-

- 166 x Category 5e UTP Outlets, comprising;
 34 x 4-way Floor boxes (136 points)
 4 x 4-way looms left in the floor void for future use (16 points)
- 4 x 2-way Partition Outlets (8 points)
- 1 x 4-way Partition Outlet (4 points)
- 1 x Double Ceiling Void Outlet
 (2 points)

A total of 9 x 1U UTP RJ45 panels were installed, along with 6 x 1U cable management panels



1. Scope of Works

1.1. Horizontal Copper Cabling

To supply, run and terminate on 1U Austin Taylor Cat.5e UTP RJ45 panels the following;

UTP Cat.6 Horizontal Cabling				
ltem	Qty	Description		Total
1	34	4-Way floor boxes		136
2	4	4-way looms left in the floor void for future use		16
3	4	Double partition outlets		8
4	1	4-Way partition outlet		4
5	1	Double Ceiling void outlet		2
			Total Cables	166

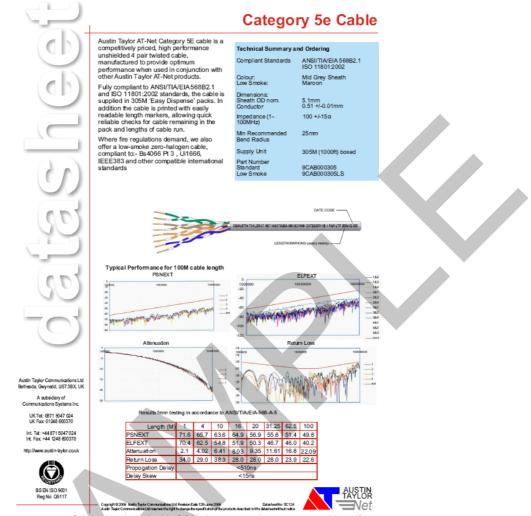
All cables run on galvanised cable tray (installed by others) in the floor void, and are inclusive of LS0Z sheath and of internal grade.

All cables are secured to the cable tray by means of flush-cut cable ties. It should be noted that the cable tray as installed is narrower than would be recommended for the fill level, and in addition, has been installed upside down, requiring all cables to be strapped securely to the tray

All cables enter the communications cabinet in the comms room from the floor void.

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(Original included with O&M documentation as cat5ecable.pdf)

1.1.1. Floor Outlets

All floor outlets are presented in floor boxes on LJ6C Category 5e UTP modules, with the quantity of modules varying dependant on location (see supplied floor plan). The LJ6C floor box plates have been supplied by others.

Each floor box is numbered (01 to 38), with each point within a floor box being individually numbered. There are two numbering ranges, 1xx and 5xx, with each floor box containing two outlets in each range.



	Modular fa	aceplates	LJ6C style	
	To complement the 25x50 module and faceplate range of products; Austin Taylor also manufacture a range of faceplates and accessories in the popular LJ6C (25x39mm) modular format. Category 5e Clip Module Shuttered clip complete with cat 5e socket.			
	Features joint coding to suit 568A and B standards, quick termination caps for connectors	Fearphetrez-	ame, tere and foror gaing	
	and provision for port labelling.	T 1 1 10		
(10)	Blanking Clip Module	Technical Summary Faceplate dimensions		
		Single gang Double gang	85mm x 85mm x 10mm 146mm x 85mm x 10mm	
00	Fills unused face plate positions. Provision for labelling	Module dimensions Cat5e	25mm x 39mm x 34mm	
100	Faceplates	Faceplate / module material & colour	Fire Retardent ABS Bright white (BT 1P)	
90	Single and Double faceplates to support one, two	PCB materials	FR2 substrate 1.6mm with copper laminate 1oz to	
	or four modules. Supplied complete with fixing	Wire termination	UĽ94 VO	
	screws and are compatible with standard	whetennination	Krone style IDC - colour coded for compatibility with T568A/B	
	backboxes. A choice of two standard finishes	RJ45 sockets		
(00)	available, white matt, or white gloss.		8 position, 8 contact. Gold plated contacts	
	Backboxes			
	A range of compatible backboxes are available,	A REAL	2-	
	with depths ranging from 18mm to 45mm to suit	1	and the second sec	
	requirements (refer Datasheet LJ07B for	A FR X	Steel 1	
	additional details)			
			Construction of the second sec	
Austin Taylor Communications Ltd	Ordering Information			
Austin Taylor Communications Ltd Bethesda, Gwynedd, LI57 3BX, UK	Description Part No	Supply Multiple	CAT 50 City Hodule	
A subsidiary of Communications Systems Inc.	Faceplates Matt	50		
UK Tel: 01248 602555	Faceplate, Single Gang, Twin	50		
UK Fax: 01248 600370	Faceplate, Double Gang, four	25		
Int. Tel: +44 1248 602555 Int. Fax: +44 1248 600370	outlet Faceplate Gloss			
http://www.austin-taylor.co.uk	outlet 9CF2002001	50		
B	Faceplate, Double Gang, four	25		
	outlet Modules		Blanding City	
Consult.	Cat 5e 9CL1193766 Blanking Plate 9LFU189881	50 25		
BS EN ISO 9001 Reg No: Q5117			AUSTIN	
	Copyright © 2001 Austin Taylor Communications Ltd, Revision Date 4th December 2001 Austin Taylor Communications Ltd reserves the right to change the specification of the pro	Datasheet No: SC118 ducts described in this datasheet without notice	TAYLOR	

(Original included with O&M documentation as *lj6cmodsandfaceplates.pdf*)

1.1.2. Wall Outlets

All wall outlets are presented on double or quad faceplates, the location being determined by the provision of the back-box (supplied and fitted by others).

Each wall outlet is individually labelled, e.g. Wall Outlet 03 is labelled as 141, 541

1.1.3. Ceiling Void Outlets

There is a double outlet located in the ceiling void to facilitate the installation of a wireless network. The locations of this outlets is indicated on the drawing "*xxxxxxxxxx.pdf*"



1.2. Patch Panel Termination

All UTP cables route back to the Comms Room, where these are terminated to 9 no. 24 port 1U high Austin Taylor Cat.5e UTP panels. These are installed to the cabinets together with 1U high cable management bars at a nominal provision rate of one management bar to every two patch panels.



Austin Taylor 1U UTP panel

All panels are labelled with the outlet number, with a separate patching field for each range;

Panels 1-4	Outlets 101 – 182
Panels 5-8	Outlets 501 – 582
Panel 9	Outlets 901 – 902



2. Testing and Labelling, Category 5e, 4 Pair Cabling

All the Category 5e installation testing was carried out utilising a Fluke DTX 1800 tester.

DTX CableAnalyzer™ Series

This tester meets the following Standards: -

- TIA Category 3 and 5e per TIA/EIA-568B
- TIA Category 5 (1000BASE-T) per TIA TSB-95
- TIA Category 6 per TIA/EIA-568B.2-1 (Addendum #1 to TIA/EIA-568B.2)
- ISO/IEC 11801 Class C, D, and E
- ISO/IEC 11801 Class F (DTX-1800 only)
- EN 50173 Class C, D, E
- EN 50173 Class F (DTX-1800 only)
- ANSI TP-PMD
- IEEE 802.3 10BASE-T, 100BASE-TX, 1000BASE-T
- IEEE 802.5 (STP cabling, IBM Type 1, 150Ω) Token Ring, 4 Mbps and 16 Mbps

The selected test standard determines the test parameters and the frequency range of the tests.

All results recorded are supplied in 'soft' form, on a CD, submitted in PDF format.

3. Documentation

Test results of the installed system are available on CD ROM. In addition, once the test results have been audited by Austin Taylor, a system warranty certificate will be provided in hard copy.

4. Quality Assurance

Gem Cable's on-going commitment towards quality has been formally recognised by the British Standards Institute, through our BS EN ISO 9002:1994 registration.

Our current registration status is to BS EN ISO 9001: 2000.

Yours sincerely For and on behalf of Gem Cable

Pete Adkins Business Development Manager