



SYSTEM	SUPPLY	INSTALL	TERMINATE	TEST	Cost Est.
<b>Incoming Feeds to Building</b>					
Conduits etc	Elect	Elect	N/A	N/A	Elect
Fibre	Elect	Elect	ITS (N&S)	ITS (N&S)	ITS (N&S) Elect
Telephone copper	Elect - CCCS	Elect - CCCS	Elect - CCCS	Elect - CCCS	Elect - CCCS
CATV fiber (if required)	Service Provider	Service Provider	Service Provider	Service Provider	Service Provider
<b>Telephone System</b>					
Fibre	N/A	N/A	N/A	N/A	N/A
Backbone (Copper)	Elect	Elect	Elect	Elect	Elect
Horizontal Distribution (Copper)	Elect-CCCS-CSV	Elect-CCCS-CSV	Elect-CCCS-CSV	Elect-CCCS-CSV	Elect-CCCS-CSV
Active Equipment (Centrex)	Aliant (ITS)	Aliant (ITS)	Aliant (ITS)	Aliant (ITS)	N/A
Passive Equipment (device wall plates, jacks, patch panels, racks, cable management)	Elect-CCCS-CSV	Elect-CCCS-CSV	Elect-CCCS-CSV	Elect-CCCS-CSV	Elect-CCCS-CSV
Telephone hand sets	Aliant (ITS)	Aliant (ITS)	Aliant (ITS)	Aliant (ITS)	N/A
Patch cords	ITS (N&S)	ITS (N&S)	ITS (N&S)	ITS (N&S)	ITS (N&S)
Telephone installs and relocation	Aliant	Aliant	Aliant	Aliant	Aliant (ITS)
<b>Data System</b>					
Backbone (Fibre)	Elect-CCCS	Elect-CCCS	ITS (N&S)	ITS (N&S)	ITS (N&S) Elect
Backbone (Copper)	Elect – CCCS - CSV	Elect – CCCS -	Elect – CCCS -	Elect – CCCS -	Elect – CCCS - CSV
Horizontal Distribution(Copper)	Elect – CCCS - CSV	Elect – CCCS -	Elect – CCCS -	Elect – CCCS -	Elect – CCCS - CSV
Active Equipment (switches, UPS's)	ITS (N&S)	ITS (N&S)	ITS (N&S)	ITS (N&S)	ITS(N&S)
Passive Equipment (device wall plates, jacks, patch panels, racks, cable management)	Elect-CCCS-CSV	Elect-CCCS-CSV	Elect-CCCS-CSV	Elect-CCCS-CSV	Elect-CCCS-CSV
Patch cords	ITS (N&S)	ITS (N&S)	N/A	N/A	ITS (N&S)
Wireless Access Points	ITS(N&S)	Elect - CCCS	Elect - CCCS	ITS (N&S)	Elect/ITS(N&S)
<b>Intercom / PA System</b>					
	Elect	Elect	Elect	Elect	Elect
<b>Cable TV System</b>					
Backbone	Elect - CCCS	Elect - CCCS	Elect - CCCS	Elect - CCCS	Elect - CCCS
Horizontal Distribution	Elect - CCCS	Elect - CCCS	Elect - CCCS	Elect - CCCS	Elect - CCCS
Active Equipment (amplifiers)	Service Provider	Service Provider	Service Provider	Service Provider	Service Provider
Passive Equipment (device wall plates, jacks, patch panels, racks)	Elect - CCCS	Elect - CCCS	Elect - CCCS	Elect - CCCS	Elect - CCCS
Passive Equipment (Splitters)	Service Provider	Service Provider	Service Provider	Service Provider	Service Provider

CAST - Nova Scotia Certified Alarm and Security Technician  
 CSV - Belden Certified System Vendor  
 CCCS – Nova Scotia Certified Communications Cabling Specialist  
 Elect - Electrical Contractor working for GC or coordinated by CM  
 ITS (N&S) - Dal Networks and Systems  
 AC - Dal Access Control



SYSTEM	SUPPLY	INSTALL	TERMINATE	TEST	Cost Est.
Card Access to Doors					
Backbone (Copper)	Consultant to ensure design is coordinated between the following Divisions: Division 08 (Openings), Division 14 (Conveying Equipment) Division 26 (Electrical) Division 28 (Electronic Safety and Security) by CAST (see footer)				
Horizontal (Copper)					
Traditional Door Hardware (lockset, hinges, closures, exit devices, etc. and door and frame preparation.					
Door Contacts, electric strikes/hinges, card readers, RTE (request to exit), electrified locks, automatic door operator					
Low Voltage Wiring					
Power Supplies, Door Controllers, Door I/O's, UPS, if required					
Software Configuration (Network Manager, Network Interface)	Dalhousie (Access Control and Card Services)				
Cards and Door Assignments	Cards supplied by Dal Card Services Door Assignments by Administrator via Dal Card Services				
Video Surveillance					
Backbone (Copper)	Consultant to ensure design is coordinated between the following Divisions: Division 26 (Electrical) Division 27 (Communications) Division 28 (Electronic Safety and Security) by CAST (see footer)				
Horizontal (Copper)					
Cameras & Licensing (Genetec Certified only)					
License Software setup	Dal (CS)				
Camera Software Setup within Server	Dal AC				

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SYSTEM	SUPPLY	INSTALL	TERMINATE	TEST	Cost Est.
Intrusion Alarm System					
Backbone (Copper)	Consultant to ensure design is coordinated between the following Divisions: Division 08 (Openings), Division 26 (Electrical) Division 28 (Electronic Safety and Security) by CAST (see footer)				
Low Voltage Wiring					
Hardware (DSC components, Door Contact, motion sensor, keypad, PC-Tab)					
Cabling					
Terminal equipment					
Commissioning activities are not listed in Matrix. There are multiple steps to the Cx process that will involve designers, contractors, ITS, AC, CM/GC and CxA. See Project Cx Plan for more details					
Registration of Mac Address for all systems connected to Dal network (ie., cameras, controllers for BAS, Lighting Control, etc)	Div 26 (supplies Mac Address(es) to Dal PM)	Dal PM registers Mac Address(es) with Dal ITS	n/a	Dal PM provides IP address(es) to Div 26	n/a

**Twisted Pair Colour Code:**

Data – Blue (includes IP based CCTV and BAS data outlets)

Voice – Grey

Point of Sale (Dalcard) – Yellow

Access Control – White

Building Automation System (BAS) – Green (excludes data connections to Dal network, which are blue)

Lighting Control – Green (excludes data connections to Dal network, which are blue)

A/V – Consultant to propose a colour prior to tender