

COST COMPARISON

Cable Tray vs. J-Hook Assembly

FORWARD

About the Author: Mr. Andrew Urquhart, RCDD, has been involved with network design and integration for the past 20 years. As President and former owner of a systems integration company, Andrew has contributed his extensive knowledge and training in the area of fiber design and installation as well as network electronics integration.

INTRODUCTION

For the purpose of comparison the following assumptions are made.

1. The length of cable tray and J-Hook supports is 150'. (Typical length of School Hallway)
 2. Tray and J-Hooks are to support (5) five IDF's each with the following:
 1. (1) 12strand Multimode Fiber Optic Cable in a 1" CMP Innerduct
 2. (2) Two hundred Cat3 Mulipair UTP cables for Voice
 3. (1) One RG-11 Video Coax Cable
 4. J-Hook supports for all cable are to meet EIA/TIA TSB-67 & BICSI Standards (every 5')
 5. Ceiling/Floor support beams are spaced at 8' on center
 6. Hallway support system will need to support all local classroom cabling being served from the MDF (Cat 5e Blue Data; Cat 5e White Voice; Cat 5e Control; RG-6 Video)
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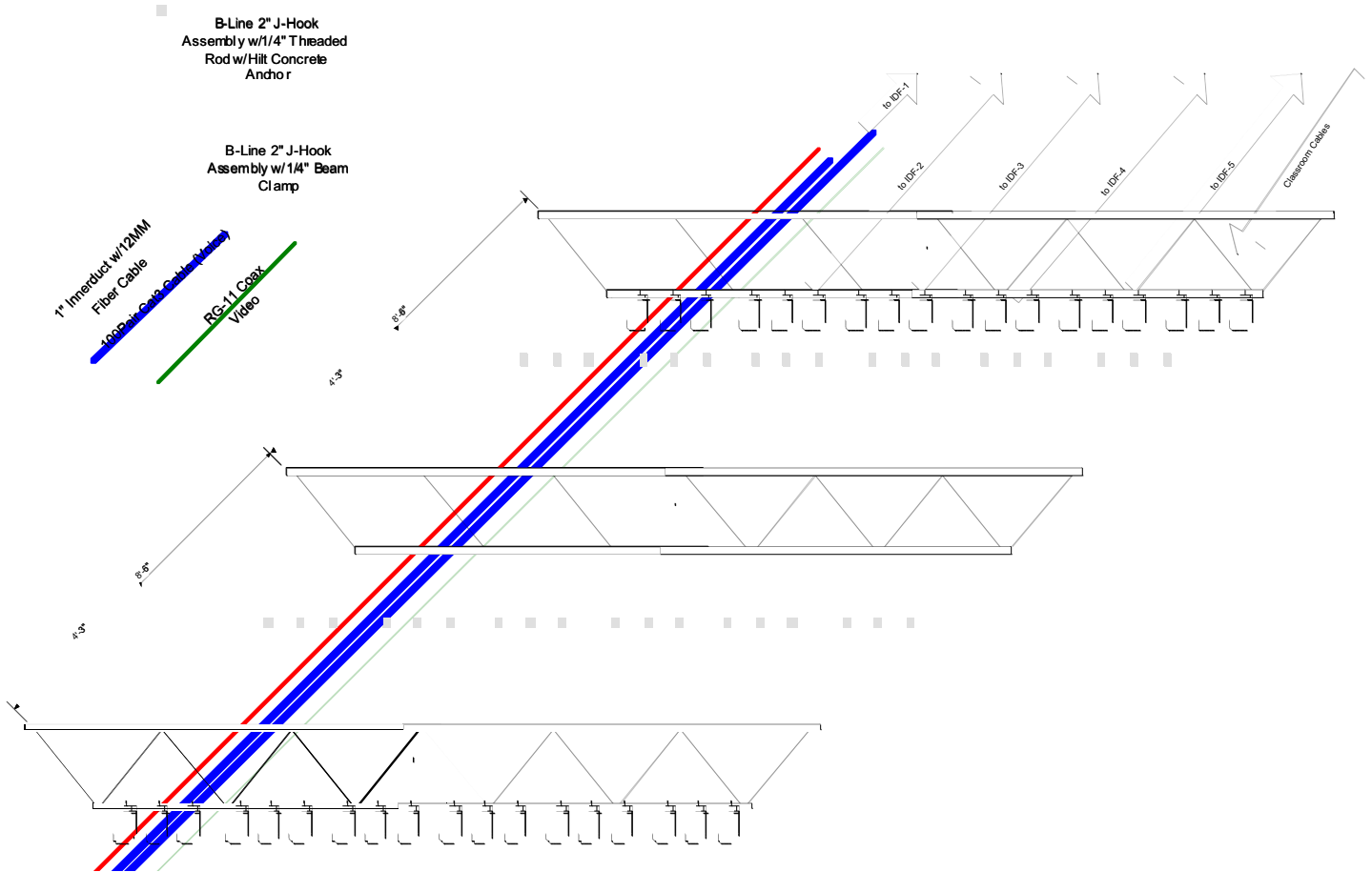
J-HOOK COST
 (5' Support Spacing)

Manufacturer	Part #	Description	Quantity	Price	U	Labor	U	Material Total	Total Hours
		Hollow Concrete							
Hilti	HIT C20/24	Anchor 1/4"	270	\$ 75.00	C	3.25	C	\$ 202.50	8.78
Steel City	SC 1/424	1/4" Beam Clamp	270	\$ 23.50	C	1.50	C	\$ 63.45	4.05
Steel City	3424433244	1/4" BOLT (Plated)	270	\$ 4.25	C	2.00	C	\$ 11.48	5.40
		1/4" X 1' Threaded							
Steel City	3424433248	Rod (Field Cut)	270	\$ 7.50	C	2.75	C	\$ 20.25	7.43
B-Line	BCH32-RB	2" J-Hook Assembly	540	\$ 230.00	C	12.75	C	\$ 1,242.00	68.85
Material Total								\$ 1,539.68	94.50
Labor Total (114.75hrs x \$60.00/hr loaded labor)								\$ 5,670.00	
Total Installation								\$ 7,209.68	
Cost Per Foot (150' Total)								\$ 48.06	per foot

CABLE TRAY COST (8' Support Spacing)

Manufacturer	Part #	Description	Quantity	Price	U	Labor	U	Material Total	Total Hours
Cablofil	CF54300	12" x 2" Tray	150	\$ 660.00	C	8.50	C	\$ 990.00	12.75
		12" FAS Support							
Cablofil	FASC300	Bracket	16	\$ 13.30	C	7.50	C	\$ 2.13	1.20
Cablofil	EDR	Fast Splice	30	\$ 115.00	C	2.50	C	\$ 34.50	0.75
Steel City	SC 1/424	1/4" Beam Clamp	16	\$ 23.50	C	1.50	C	\$ 3.76	0.24
Material Total								\$ 1,030.39	14.94
Labor Total (27.53hrs x \$60.00/hr loaded labor)								\$ 896.40	
Total Installation								\$ 1,926.79	
Cost Per Foot (150' Total)								\$ 12.85	per foot

J-HOOK ASSEMBLY LAYOUT



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