

27 13 Communications Backbone Cabling

27 13 23 – Communications Optical Fiber Backbone Cabling

27 13 23.13 Communications Optical Fiber		Crew	Daily Output	Labor-Hours	Unit	Material	2022 Bare Costs		Total	Total Incl O&P
							Labor	Equipment		
0010	COMMUNICATIONS OPTICAL FIBER									
0040	Specialized tools & techniques cause installation costs to vary.									
0070	Fiber optic, cable, bulk simplex, single mode	1 Elec	8	1	C.L.F.	22.50	66		88.50	124
0080	Multi mode		8	1		29.50	66		95.50	131
0090	4 strand, single mode		7.34	1.090		38	72		110	149
0095	Multi mode		7.34	1.090		50.50	72		122.50	163
0100	12 strand, single mode		6.67	1.199		72.50	79.50		152	198
0105	Multi mode		6.67	1.199		96.50	79.50		176	224
0150	Jumper				Ea.	47			47	52
0200	Pigtail					34			34	37.50
0300	Connector	1 Elec	24	.333		28	22		50	63.50
0350	Finger splice		32	.250		41.50	16.55		58.05	70
0400	Transceiver (low cost bi-directional)		8	1		490	66		556	635
0450	Rack housing, 4 rack spaces, 12 panels (144 fibers)		2	4		1,200	265		1,465	1,700
0500	Patch panel, 12 ports		6	1.333		350	88.50		438.50	515
0600	Cable connector panel, 6 fiber		40	.200		61.50	13.25		74.75	87
1000	Cable, 62.5 microns, direct burial, 4 fiber	R-15	1200	.040	L.F.	.85	2.59	.27	3.71	5.10
1020	Indoor, 2 fiber	R-19	1000	.020		.54	1.33		1.87	2.56
1040	Outdoor, aerial/duct	"	1670	.012		.71	.79		1.50	1.96
1060	50 microns, direct burial, 8 fiber	R-22	4000	.009		1.42	.56		1.98	2.40
1080	12 fiber		4000	.009		1.68	.56		2.24	2.69
1100	Indoor, 12 fiber		759	.049		1.53	2.98		4.51	6.10
1120	Connectors, 62.5 micron cable, transmission	R-19	40	.500	Ea.	16.45	33		49.45	67.50
1140	Cable splice		40	.500		19.20	33		52.20	70.50
1160	125 micron cable, transmission		16	1.250		17.30	83		100.30	142
1180	Receiver, 1.2 mile range		20	1		375	66.50		441.50	515
1200	1.9 mile range		20	1		250	66.50		316.50	375
1220	6.2 mile range		5	4		415	265		680	850
1240	Transmitter, 1.2 mile range		20	1		415	66.50		481.50	560
1260	1.9 mile range		20	1		315	66.50		381.50	445
1280	6.2 mile range		5	4		1,300	265		1,565	1,825
1300	Modem, 1.2 mile range		5	4		221	265		486	640
1320	6.2 mile range	R-19	5	4	Ea.	415	265		680	855
1340	1.9 mile range, 12 channel		5	4		2,325	265		2,590	2,950
1360	Repeater, 1.2 mile range		10	2		375	133		508	610
1380	1.9 mile range		10	2		550	133		683	800
1400	6.2 mile range		5	4		1,000	265		1,265	1,500
1420	1.2 mile range, digital		5	4		510	265		775	955

27 41 Audio-Video Systems

27 41 33 – Master Antenna Television Systems

27 41 33.10 TV Systems

0010	TV SYSTEMS , not including rough-in wires, cables & conduits									
0100	Master TV antenna system									
0200	VHF reception & distribution, 12 outlets	1 Elec	6	1.333	Outlet	135	88.50		223.50	280
0400	30 outlets		10	.800		259	53		312	365
0600	100 outlets		13	.615		300	40.50		340.50	390
0800	VHF & UHF reception & distribution, 12 outlets		6	1.333		248	88.50		336.50	405
1000	30 outlets		10	.800		168	53		221	263
1200	100 outlets		13	.615		173	40.50		213.50	251
1400	School and deluxe systems, 12 outlets		2.40	3.333		325	221		546	690