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Hawaiian Telcom

ADMINISTRATION
STATE PROCUREMENT OFFICE
STATE OF HAWAII

November 7, 2014

State of Hawaii
Procurement Officer
State Procurement Office
P.O. Box 119
Honolulu, HI 96810

Subject: Contract CF-06-007-SW, SPO Pricelist No. 09-10
Telephone Services for Hawaii State Government
Proposal to Add Unloaded Flat Panels, High Density Jack, Optical Housing & Modules and Fiber Trunk Cables to the Cabling and Support Structure Pricelist
Update Description to Match Reference Sheets

Dear Procurement Officer,

On October 15, 2014, Hawaiian Telcom, Inc. proposed a change to add unloaded flat panels, high density jack, optical housing & modules and fiber trunk cables to existing pricelist items on contract CF-06-007-SW, SPO Pricelist No. 09-10. Please see the enclosed duplicate letter dated October 15, 2014. Christopher Lai, State Information Communications Services Division, asked that we make description changes to match the Reference Sheets.

The additions are on the Cabling and Support Structure Pricelist. Please note that all other items on the current pricelist pages will remain as is. For ease of scanning the pricelist, the entire Offer Pages pricelist and Reference Pages for the new materials are enclosed (Pages OF-7 through OF-35) (CS-340 through CS-350).

The additions to the Cabling & Support Structure Pricing (Pages OF-13 through OF- 27) are as follows:

Unloaded Flat Panels (Page OF-14)

CS-340 24-port, Flat HDJ Jack Panel, Unloaded, ea (Description remains the same)

CS-341 48-port, Flat HDJ Jack Panel, Unloaded, ea (Description remains the same)

High Density CAT6 Jack (Page OF-15)

CS-342 HD Jack, CAT6, Green, ea (Change description to High Density CAT6 Jack & move to top of Page OF-14)

Optical Housing & Modules (Page OF-22)

CS-343 Pretium EDGE Housing, 48 Pretium EDGE Modules or Panels, ea

CS-344 Pretium EDGE Housing, 12 Pretium EDGE Modules or Panels, ea

CS-345 Pretium EDGE Module, 12 F, LC Duplex to MTP Connector, 50um, mm, OM3, ea

CS-346 Pretium EDGE Module, 12 F, LC Duplex to MTP Connector, sm, OS2, ea

(Removed Solutions from description and added mm for multi-mode & sm for single-mode)

Always on.SM

PO Box 2200, Honolulu, HI 96841 hawaiiantel.com

Fiber Trunk Cables (Page OF-23)

CS-347 Pretium EDGE Trunk Cable, 50um, mm, (OM3), MTP Connector to MTP Connector,
48 F, 120 ft, ea

CS-348 Pretium EDGE Trunk Cable, 50um, mm, (OM3), MTP Connector to MTP Connector,
24 F, 70 ft, ea

CS-349 Pretium EDGE Trunk Cable, Bend-improved sm, (OS2), MTP Connector to MTP Connector, 48 F, 100 ft,
ea

CS-350 Pretium EDGE Trunk Cable, Bend-improved sm, (OS2), MTP Connector to MTP Connector, 24 F, 80 ft,
ea

(Removed Solutions from description, added mm for multi-mode & sm for single-mode and corrected cable footages)

If you have questions, please contact me at (808)546-4424.

Sincerely,



Brandon Onishi
Senior Manager, Government Sales

cc: David Fujimoto, ICSD
Christopher Lai, ICSD



October 15, 2014

DUPLICATE

State of Hawaii
Procurement Officer
State Procurement Office
P.O. Box 119
Honolulu, HI 96810

Subject: Contract CF-06-007-SW, SPO Pricelist No. 09-10
Telephone Services for Hawaii State Government
Proposal to Add Unloaded Flat Panels, High Density Jack, Optical Housing & Modules and Fiber Trunk Cables to the Cabling and Support Structure Pricelist

Dear Procurement Officer,

Hawaiian Telcom, Inc. would like to propose a change to add unloaded flat panels, high density jack, optical housing & modules and fiber trunk cables to existing pricelist items on contract CF-06-007-SW, SPO Pricelist No. 09-10. The additions will be made on the Cabling and Support Structure Pricelist. Please note that all other items on the current pricelist pages will remain as is. For ease of scanning the pricelist, the entire pricelist has been resubmitted (Pages OF-7 through OF-35).

The additions to the Cabling & Support Structure Pricing (Pages OF-13 through OF- 27) are as follows:

Unloaded Flat Panels (Page OF-14)

- CS-340 24-port, Flat HDJ Jack Panel, Unloaded, ea
- CS-341 48-port, Flat HDJ Jack Panel, Unloaded, ea

High Density Jack (Page OF-15)

- CS-342 HD Jack, CAT6, Green, ea

Optical Housing & Modules (Page OF-22)

- CS-343 Pretium EDGE Solutions Housing, up to 48 Pretium EDGE Solutions Modules or Panels, ea
- CS-344 Pretium EDGE Housing, 144-Fiber LC, 576-Fiber, MTP Capacity (12 Modules/Panels), ea
- CS-345 Pretium EDGE Solutions Module, 12 F, LC Duplex to MTP Connector, OM3, ea
- CS-346 Pretium EDGE Solutions Module, 12 F, LC Duplex to MTP Connector OS2, ea

Fiber Trunk Cables (Page OF-23)

- CS-347 Pretium EDGE Solutions Trunk Cable, 50um Multimode (OM3), MTP Connector to MTP Connector, 48 F, 130 ft, ea
- CS-348 Pretium EDGE Solutions Trunk Cable, 50um Multimode (OM3), MTP Connector to MTP Connector, 24 F, 70 ft, ea
- CS-349 Pretium EDGE Solutions Trunk Cable, Bend-improved Single-mode (OS2), MTP Connector to MTP Connector, 48 F, 130 ft, ea

CS-350 Pretium EDGE Solutions Trunk Cable, Bend-improved Single-mode (OS2), MTP Connector to MTP Connector, 24 F, 70 ft, ea

The addition of Data Center flat panels, high density jacks, housing & modules and trunk cables will support future interconnecting networks and bandwidth capacity.

Enclosed are one original and one copy of Offer Sheets OF-7 through OF-35 and Reference Pages for items CS-340 through CS-350.

Thank you for considering our proposal. If you have questions, please contact me at (808)546-4424.

Sincerely,



Brandon Onishi
Senior Manager, Government Sales

cc: David Fujimoto, ICSD
Christopher Lai, ICSD

ACCESS LINES PRICING

See Section 3.16.1, Access Lines Pricing for detailed instructions on how to complete OFFER Form Pages.

YEARS 1 & 2

<u>Description</u>	<u>Ref. No.</u>	<u>Monthly Unit Price</u>	x	<u>Estimated Quantity</u>	=	<u>Total Monthly Bid Price</u>	<u>Taxes/Surcharges</u>
Analog Line (single line, fax, modem)							
Centrex Access Line Charge, line	<u>AL-1</u>	<u>\$10.05</u>		21,286		<u>\$213,924.30</u>	PUC; HIS; SLC; FUSF
Statewide 5-digit Dialing and Interland Toll Free Dialing, line	<u>AL-3</u>	<u>\$0.85</u>		21,286		<u>\$18,093.10</u>	PUC; HIS
Multiline							
Centrex Access Line Charge, line	<u>AL-2</u>	<u>\$11.05</u>		3,781		<u>\$41,780.05</u>	PUC; HIS; SLC; FUSF
Statewide 5-digit Dialing and Interland Toll Free Dialing, line	<u>AL-3</u>	<u>\$0.85</u>		3,781		<u>\$3,213.85</u>	PUC; HIS
Additional Soft Number (Multiline), ea	<u>AL-4</u>	<u>\$0.00</u>		498		<u>\$0.00</u>	PUC; HIS
Optional Line Features							
Call Screening, line	<u>AL-5</u>	<u>\$0.00</u>		1		<u>\$0.00</u>	PUC; HIS
Additional Network Access Register (NAR), ea	<u>AL-6</u>	<u>\$5.39</u>		1		<u>\$5.39</u>	PUC; HIS; ESS; TRS
ACD							
<u>Multi-line and Analog ACD</u>							
Enhanced ACD Group and Group Features, ea	<u>AL-7</u>	<u>\$70.00</u>		27		<u>\$1,890.00</u>	PUC; HIS
ACD Analog Station Features (agent or supervisor), line*	<u>AL-8</u>	<u>\$13.00</u>		109		<u>\$1,417.00</u>	PUC; HIS
ACD Multiline Station Features (agent or supervisor), line*	<u>AL-9</u>	<u>\$13.00</u>		223		<u>\$2,899.00</u>	PUC; HIS
Call Center Manager (Call Mgr)							
Call Center Manager MIS Link (First Group), ea	<u>AL-10</u>	<u>\$235.00</u>		3		<u>\$705.00</u>	PUC; HIS
Call Center Manager MIS Link (2nd & Subsequent Groups), ea	<u>AL-11</u>	<u>\$10.00</u>		14		<u>\$140.00</u>	PUC; HIS
ISDN BRI (Multi-line - Voice Only) Line							
ISDN BRI Centrex Line, line	<u>AL-12</u>	<u>\$30.00</u>		50		<u>\$1,500.00</u>	PUC; HIS; ESS; TRS; SLC; FUSF
Statewide 5-digit Dialing and Interland Toll Free Dialing, channel	<u>AL-3</u>	<u>\$0.85</u>		100		<u>\$85.00</u>	PUC; HIS

line* - AL-8 is in addition to AL-1 for analog lines and AL-9 is in addition to AL-2 for multiline lines

ACCESS LINES PRICING (CONTINUED)

<u>Description</u>	<u>Ref. No.</u>	<u>Monthly Unit Price</u>	<u>x</u>	<u>Estimated Quantity</u>	<u>=</u>	<u>Total Monthly Bid Price</u>	<u>Taxes/Surcharges</u>
ISDN BRI Voice and Circuit Switched Data (CSD) Line							
ISDN BRI Alternating Voice and CSD Line, line	AL-13	\$30.00		30		\$900.00	PUC; HIS; ESS; TRS; SLC; FUSF
ISDN BRI Circuit Switched Data Usage, peak, first minute	AL-14a	\$0.05		1		\$0.05	PUC; HIS
ISDN BRI Circuit Switched Data Usage, peak, additional minute	AL-14b	\$0.01		1		\$0.01	PUC; HIS
ISDN BRI Circuit Switched Data Usage, evening, first minute	AL-14c	\$0.0325		1		\$0.03	PUC; HIS
ISDN BRI Circuit Switched Data Usage, evening, additional minute	AL-14d	\$0.0065		1		\$0.01	PUC; HIS
ISDN BRI Circuit Switched Data Usage, night, first minute	AL-14e	\$0.02		1		\$0.02	PUC; HIS
ISDN BRI Circuit Switched Data Usage, night, additional minute	AL-14f	\$0.0040		1		\$0.01	PUC; HIS
ISDN PRI Video and Dialup Line							
ISDN PRI Line with DS-1 Access, line	AL-15	\$400.00		1		\$400.00	PUC; HIS; ESS; TRS; SLC; FUSF
ISDN PRI Line without DS-1 Access, line	AL-16	\$275.00		1		\$275.00	PUC; HIS;
ISDN PRI Circuit Switched Data Usage, peak, first minute	AL-17a	\$0.05		1		\$0.05	PUC; HIS
ISDN PRI Circuit Switched Data Usage, peak, additional minute	AL-17b	\$0.01		1		\$0.01	PUC; HIS
ISDN PRI Circuit Switched Data Usage, evening, first minute	AL-17c	\$0.0325		1		\$0.03	PUC; HIS
ISDN PRI Circuit Switched Data Usage, evening, additional minute	AL-17d	\$0.0065		1		\$0.01	PUC; HIS
ISDN PRI Circuit Switched Data Usage, night, first minute	AL-17e	\$0.02		1		\$0.02	PUC; HIS
ISDN PRI Circuit Switched Data Usage, night, additional minute	AL-17f	\$0.0040		1		\$0.01	PUC; HIS
ISDN PRI Additional DID Number, ea	AL-18	\$0.25		1		\$0.25	PUC; HIS

ACCESS LINES PRICING (CONTINUED)

<u>Description</u>	<u>Ref. No.</u>	<u>Monthly Unit Price</u>	x	<u>Estimated Quantity</u>	=	<u>Total Monthly Bid Price</u>	<u>Taxes/Surcharges</u>
DSL							
DSL Line with Hawaiian Telcom Online Internet Access, line	<u>AL-19 *</u>	<u>\$59.99</u>		30		<u>\$1,799.70</u>	GET
DSL Line - Transport Only, line	<u>AL-20 *</u>	<u>\$39.99</u>		30		<u>\$1,199.70</u>	GET
* Note: HT will extend to the State any HT promotional offering available at the time service is ordered							
Voice Mail							
Voice Mail Service Charge, Mailbox	<u>AL-21a</u>	<u>\$4.95</u>		7,000		<u>\$34,650.00</u>	GET
Voice Mail Answer Only Service Charge, Mailbox	<u>AL-21b</u>	<u>\$9.95</u>		50		<u>\$497.50</u>	GET
Voice Mail Message Waiting Lamp Charge, telset	<u>AL-21c</u>	<u>\$0.00</u>		700		<u>\$0.00</u>	GET
Voice Mail Extension Mailbox (First), ea	<u>AL-21d</u>	<u>\$19.95</u>		20		<u>\$399.00</u>	GET
Voice Mail Extension Mailbox (Additional), ea	<u>AL-21e</u>	<u>\$5.00</u>		100		<u>\$500.00</u>	GET
Wire Maintenance							
Wire Maintenance Charge, Access Line	<u>AL-22</u>	<u>\$2.00</u>		4,000		<u>\$8,000.00</u>	GET
Sub-Total: Access Lines						<u><u>\$334,274.10</u></u>	

ACCESS LINES PRICING (CONTINUED)

<u>Description</u>	<u>Ref. No.</u>	<u>Monthly Unit Price</u>	<u>Estimated Quantity</u>	=	<u>Total Monthly Bid Price</u>
Regulatory Fees/Charges and Taxes (by line)					
Interstate Subscriber Line Charge (Centrex)	SLC	\$8.15	25,067		\$204,296.05 GET
Interstate Subscriber Line Charge (ISDN BRI)	SLC	\$8.15	80		\$652.00 GET
Interstate Subscriber Line Charge (ISDN PRI)	SLC	\$40.75	1		\$40.75 GET
Federal Universal Service Fee (Centrex 1 THRU 9 LINES)	FUSF	\$1.42	6,300		\$8,946.00
Federal Universal Service Fee (Centrex 10 AND OVER LINES)	FUSF	\$0.16	5,000		\$800.00
Federal Universal Service Fee (ISDN BRI)	FUSF	\$1.44	80		\$115.20
Federal Universal Service Fee (ISDN PRI)	FUSF	\$8.78	1		\$8.78
Statewide Emergency Service Surcharge (E911)	ESS	\$0.27	82		\$22.14
Telecommunications Relay Service Surcharge	TRS	\$0.04	81		\$3.24
Telecommunications Relay Service Surcharge (ISDN PRI)	TRS	\$0.20	1		\$0.20
Sub-Total: Regulatory Fees/Charges and Taxes (by line)					<u>\$214,884.36</u>

<u>Description</u>	<u>Ref. No.</u>	<u>Monthly Rate</u>	<u>Sub-Total: Access Lines \$s or Revised Sub-Total: \$s</u>	=	<u>Total Monthly Bid Price</u>
Regulatory Fees/Charges and Taxes (by dollar amount)					
PUC Fee	PUC	0.0025	\$287,228.20		\$718.07
Hawaii General Excise Tax for Voicemail & Wire Maintenance	GET	0.04712	\$44,046.50		\$2,075.47
Hawaii General Excise Tax for SLC	GET	0.04712	\$204,988.80		\$9,659.07
Hawaii General Excise Tax for DSL	GET	0.04166	\$2,999.40		\$124.96
Others	HIS	0.1123	\$287,228.20		\$32,255.73
Sub-Total: Regulatory Fees/Charges and Taxes (by dollar amount)					<u>\$44,833.30</u>
Total: Access Lines - YEARS 1 & 2					<u>\$593,991.76</u>

ACCESS LINES PRICING

See Section 3.16.1, Access Lines Pricing for detailed instructions on how to complete OFFER Form Pages.

YEAR 3

<u>Description</u>	<u>Ref. No.</u>	<u>Monthly Unit Price</u>	x	<u>Estimated Quantity</u>	=	<u>Total Monthly Bid Price</u>	<u>Taxes/Surcharges</u>
Analog Line (single line, fax, modem)	AL-1	\$11.05		21,286		\$235,210.30	PUC; HIS; SLC; FUSF
Centrex Access Line Charge. line	AL-2	\$12.05		3,781		\$45,561.05	PUC; HIS; SLC; FUSF
Sub-Total: Year 3 AL-1 & AL-2 Increase						\$280,771.35	
Year 1 & 2 Sub-Total Access Lines Pricing				\$334,274.10			
Less Year 1 & 2 AL-1 & AL-2				<u>-\$255,704.35</u>			
Sub-Total: Year 1 & 2 Less AL-1 & AL-2						<u>\$78,569.75</u>	
Sub-Total: Year 3 with Adjusted AL-1 & AL-2						<u>\$359,341.10</u>	

<u>Description</u>	<u>Ref. No.</u>	<u>Monthly Unit Price</u>	x	<u>Estimated Quantity</u>	=	<u>Total Monthly Bid Price</u>	
Regulatory Fees/Charges and Taxes (by line)							
Interstate Subscriber Line Charge (Centrex)	SLC	\$8.15		25,067		\$204,296.05	GET
Interstate Subscriber Line Charge (ISDN BRI)	SLC	\$8.15		80		\$652.00	GET
Interstate Subscriber Line Charge (ISDN PRI)	SLC	\$40.75		1		\$40.75	GET
Federal Universal Service Fee (Centrex 1 THRU 9 LINES)	FUSF	\$1.42		6,300		\$8,946.00	
Federal Universal Service Fee (Centrex 10 AND OVER LINES)	FUSF	\$0.16		5,000		\$800.00	
Federal Universal Service Fee (ISDN BRI)	FUSF	\$1.44		80		\$115.20	
Federal Universal Service Fee (ISDN PRI)	FUSF	\$8.78		1		\$8.78	
Statewide Emergency Service Surcharge (E911)	ESS	\$0.27		82		\$22.14	
Telecommunications Relay Service Surcharge	TRS	\$0.04		81		\$3.24	
Telecommunications Relay Service Surcharge (ISDN PRI)	TRS	\$0.20		1		\$0.20	
Sub-Total: Regulatory Fees/Charges and Taxes (by line)						<u>\$214,884.36</u>	

<u>Description</u>	<u>Ref. No.</u>	<u>Monthly Rate</u>	x	<u>Sub-Total: Access Lines \$s or Revised Sub-Total: \$s</u>	=	<u>Total Monthly Bid Price</u>
Regulatory Fees/Charges and Taxes (by dollar amount)						
PUC Fee	PUC	0.0025		\$312,295.20		\$780.74
Hawaii General Excise Tax for Voicemail & Wire Maintenance	GET	0.04712		\$44,046.50		\$2,075.47
Hawaii General Excise Tax for SLC	GET	0.04712		\$204,988.80		\$9,659.07
Hawaii General Excise Tax for DSL	GET	0.04166		\$2,999.40		\$124.96
Others	HIS	0.1123		\$312,295.20		\$35,070.75
Sub-Total: Regulatory Fees/Charges and Taxes (by dollar amount)						<u>\$47,710.99</u>
Total: Access Lines - YEAR 3						<u>\$621,936.45</u>

ACCESS LINES PRICING

See Section 3.16.1, Access Lines Pricing for detailed instructions on how to complete OFFER Form Pages.

YEAR 4

<u>Description</u>	<u>Ref. No.</u>	<u>Monthly Unit Price</u>	x	<u>Estimated Quantity</u>	=	<u>Total Monthly Bid Price</u>	<u>Taxes/Surcharges</u>
Analog Line (single line, fax, modem)							
Centrex Access Line Charge, line	AL-1	\$12.05		21,286		\$256,496.30	PUC; HIS; SLC; FUSF
Multiline							
Centrex Access Line Charge, line	AL-2	\$13.05		3,781		\$49,342.05	PUC; HIS; SLC; FUSF
Sub-Total: Year 4 AL-1 & AL-2 Increase						\$305,838.35	
Year 1 & 2 Sub-Total Access Lines Pricing				\$334,274.10			
Less Year 1 & 2 AL-1 & AL-2				<u>-\$255,704.35</u>			
Sub-Total: Year 1 & 2 Less AL-1 & AL-2						<u>\$78,569.75</u>	
Sub-Total: Year 4 with Adjusted AL-1 & AL-2						<u><u>\$384,408.10</u></u>	

<u>Description</u>	<u>Ref. No.</u>	<u>Monthly Unit Price</u>	x	<u>Estimated Quantity</u>	=	<u>Total Monthly Bid Price</u>	
Regulatory Fees/Charges and Taxes (by line)							
Interstate Subscriber Line Charge (Centrex)	SLC	\$8.15		25,067		\$204,296.05	GET
Interstate Subscriber Line Charge (ISDN BRI)	SLC	\$8.15		80		\$652.00	GET
Interstate Subscriber Line Charge (ISDN PRI)	SLC	\$40.75		1		\$40.75	GET
Federal Universal Service Fee (Centrex 1 THRU 9 LINES)	FUSF	\$1.42		6,300		\$8,946.00	
Federal Universal Service Fee (Centrex 10 AND OVER LINES)	FUSF	\$0.16		5,000		\$800.00	
Federal Universal Service Fee (ISDN BRI)	FUSF	\$1.44		80		\$115.20	
Federal Universal Service Fee (ISDN PRI)	FUSF	\$8.78		1		\$8.78	
Statewide Emergency Service Surcharge (E911)	ESS	\$0.27		82		\$22.14	
Telecommunications Relay Service Surcharge	TRS	\$0.04		81		\$3.24	
Telecommunications Relay Service Surcharge (ISDN PRI)	TRS	\$0.20		1		\$0.20	
Sub-Total: Regulatory Fees/Charges and Taxes (by line)						<u><u>\$214,884.36</u></u>	

<u>Description</u>	<u>Ref. No.</u>	<u>Monthly Rate</u>	x	<u>Sub-Total: Access Lines \$s or Revised Sub-Total: \$s</u>	=	<u>Total Monthly Bid Price</u>
Regulatory Fees/Charges and Taxes (by dollar amount)						
PUC Fee	PUC	0.0025		\$337,362.20		\$843.41
Hawaii General Excise Tax for Voicemail & Wire Maintenance	GET	0.04712		\$44,046.50		\$2,075.47
Hawaii General Excise Tax for SLC	GET	0.04712		\$204,988.80		\$9,659.07
Hawaii General Excise Tax for DSL	GET	0.04166		\$2,999.40		\$124.96
Others	HIS	0.1123		\$337,362.20		\$37,885.78
Sub-Total: Regulatory Fees/Charges and Taxes (by dollar amount)						<u><u>\$50,588.69</u></u>
Total: Access Lines - YEAR 4						<u><u><u>\$649,881.15</u></u></u>

CABLING & SUPPORT STRUCTURE PRICING

See Section 3.16.2, Cabling and Support Structure Pricing for detailed instructions on how to complete OFFER Form Pages.

YEAR 1	Ref. No.	Mfg. Model No.	Equip. Unit Price	+	Install Unit Price	=	Total Unit Price	x	Est. Qty.	=	Total Bid Price
Category 5E											
CAT5E Horizontal Cables											
Plenum Rated											
(1) 4 Pair, CMP, gray, foot	CS-001	10032207	0.36		0.75		1.11		10000		\$11,100.00
(2) 4 Pair, CMP, gray, foot	CS-001	10032207	0.71		1.04		1.75		100000		\$175,000.00
4 Pair, CMP, gray, 1000 ft/spool	CS-001	10032207	353.40		0.00		353.40		1		\$353.40
Riser Rated											
(1) 4 Pair, CMR, gray, foot	CS-002	10032510	0.18		0.75		0.93		1		\$0.93
(2) 4 Pair, CMR, gray, foot	CS-002	10032510	0.36		1.04		1.40		1		\$1.40
4 Pair, CMR, gray, 1000 ft/spool	CS-002	10032510	176.71		0.00		176.71		1		\$176.71
CAT5E and CAT6 Jack Module											
8-Conductor, 568A/B, 110-IDC, ivory, ea	CS-003	STAR6000C6	2.73		9.90		12.63		1		\$12.63
CAT5E Patch Panels and Accessories											
12-port, 568A/B, wall mount (89B bracket included), ea	CS-004	2-7034-12	26.12		59.38		85.50		1		\$85.50
24-port, 568A/B, 19" rack mount, ea	CS-005	2-7030-24	40.06		237.50		277.56		1		\$277.56
48-port, 568A/B, 19" rack mount, ea	CS-006	2-7032-48	74.89		475.00		549.89		1		\$549.89
Patch Panel Wall Mount Bracket, 24 Port, ea	CS-007	103B1-24	26.32		14.84		41.16		1		\$41.16
Patch Panel Wall Mount Bracket, 48 Port, ea	CS-008	103B1	30.48		14.84		45.32		1		\$45.32
Cable Management - Horizontal Cable Manager	CS-009	9512-1902	37.20		14.84		52.04		1		\$52.04
CAT5E Patch Cords											
3-ft, Category 5E patch cord, blue, ea	CS-010	2-7403-62	0.97		0.00		0.97		1		\$0.97
7-ft, Category 5E patch cord, blue, ea	CS-011	2-7407-62	1.22		0.00		1.22		1		\$1.22
10-ft, Category 5E patch cord, blue, ea	CS-012	2-7410-62	1.50		0.00		1.50		1		\$1.50
15-ft, Category 5E patch cord, blue, ea	CS-013	2-7415-62	2.09		0.00		2.09		1		\$2.09
Category 6											
CAT6 Horizontal Cables											
Plenum Rated											
(1) 4 Pair, CMP, gray, foot	CS-014	10032026	0.75		0.74		1.49		1		\$1.49
(2) 4 Pair, CMP, gray, foot	CS-014	10032026	1.49		1.04		2.53		1		\$2.53
4 Pair, CMP, gray, 1000 ft/spool	CS-014	10032026	743.68		0.00		743.68		1		\$743.68
Riser Rated											
(1) 4 Pair, CMR, gray, foot	CS-015	10032452	0.31		0.74		1.05		1		\$1.05
(2) 4 Pair, CMR, gray, foot	CS-015	10032452	0.62		1.04		1.66		1		\$1.66
4 Pair, CMR, gray, 1000 ft/spool	CS-015	10032452	312.08		0.00		312.08		1		\$312.08
CAT5E and CAT6 Jack Module											
8-Conductor, 568A/B, 110-IDC, ivory, ea	CS-003	STAR6000C6	2.73		9.90		12.63		1		\$12.63

CABLING & SUPPORT STRUCTURE PRICING (CONTINUED)

<u>Description</u>	<u>Ref. No.</u>	<u>Mfg. Model No.</u>	<u>Equip. Unit Price</u>	<u>Install Unit Price</u>	<u>Total Unit Price</u>	<u>Est. Qty.</u>	<u>Total Bid Price</u>
High Density CAT6 Jack HD Jack, CAT6, Green, ea	CS-342	OR-HDJ6-45	7.73	13.65	21.38	1	\$21.38
CAT6 Patch Panels and Accessories							
12-port, 568A/B, wall mount (bracket included), ea	CS-016	STAR19110C6-12	41.72	59.38	101.10	1	\$101.10
24-port, 568A/B, 19" rack mount, ea	CS-017	STAR19110C6-24	78.03	237.50	315.53	1	\$315.53
48-port, 568A/B, 19" rack mount, ea	CS-018	STAR19110C6-48	146.30	475.00	621.30	1	\$621.30
Patch Panel Wall Mount Bracket, 24 Port, ea	CS-007	103B1-24	26.32	14.84	41.16	1	\$41.16
Patch Panel Wall Mount Bracket, 48 Port, ea	CS-008	103B1	30.48	14.84	45.32	1	\$45.32
Cable Management - Horizontal Cable Manager	CS-009	9512-1902	37.20	14.84	52.04	1	\$52.04
CAT6 Patch Cords							
4-ft Category 6 patch cord, blue, ea	CS-019	STAR661-04-62	2.35	0.00	2.35	1	\$2.35
8-ft Category 6 patch cord, blue, ea	CS-020	STAR661-08-62	2.69	0.00	2.69	1	\$2.69
12-ft Category 6 patch cord, blue, ea	CS-021	STAR661-12-62	2.98	0.00	2.98	1	\$2.98
Unloaded Flat Panels							
24-port, Flat HDJ Jack Panel, Unloaded, ea	CS-340	OR-PHDHJU24	88.07	36.39	124.46	1	\$124.46
48-port, Flat HDJ Jack Panel, Unloaded, ea	CS-341	OR-PHDHJU48	102.78	72.78	175.56	1	\$175.56
Faceplates and Surface Mount Boxes - Ivory							
Blank Insert	CS-022	STAR500B-52	0.33	9.90	10.23	1	\$10.23
Faceplate, Single Gang, 1-port, ea	CS-023	2-2501-52	0.63	9.90	10.53	1	\$10.53
Faceplate, Single Gang, 2-port, ea	CS-024	2-2502-52	0.63	9.90	10.53	1	\$10.53
Faceplate, Single Gang, 4-port, ea	CS-025	2-2504-52	0.63	9.90	10.53	1	\$10.53
Faceplate, Single Gang, Blank, ea	CS-026	107-52	0.52	9.90	10.42	1	\$10.42
Faceplate, Double Gang, 6-port, ea	CS-027	2-2506D-52	1.52	9.90	11.42	1	\$11.42
Faceplate, Double Gang, Blank, ea	CS-028	108-52	0.77	9.90	10.67	1	\$10.67
Surface Mount Housing, 1 or 2 ports, ea	CS-029	STAR558-52	2.19	9.90	12.09	1	\$12.09
Surface Mount Housing, Up to 6 ports, ea	CS-030	STAR108SM-52	2.01	9.90	11.91	1	\$11.91
Mounting Frame, Single Gang, 2-port, ea	CS-031	STAR1062-52	0.98	9.90	10.88	1	\$10.88
Mounting Frame, Single Gang, 4-port, ea	CS-032	STAR1064M-52	1.92	9.90	11.82	1	\$11.82
Surface Mount Box, Single Gang, ea	CS-033	STARMBD-52	2.45	9.90	12.35	1	\$12.35
Surface Mount Box, Double Gang, ea	CS-034	STARMBDD-52	2.79	9.90	12.69	1	\$12.69
Faceplates and Surface Mount Boxes - White							
Blank Insert	CS-035	STAR500B-85	0.33	9.90	10.23	1	\$10.23
Faceplate, Single Gang, 1-port, ea	CS-036	2-2501-85	0.63	9.90	10.53	1	\$10.53
Faceplate, Single Gang, 2-port, ea	CS-037	2-2502-85	0.63	9.90	10.53	1	\$10.53
Faceplate, Single Gang, 4-port, ea	CS-038	2-2504-85	0.63	9.90	10.53	1	\$10.53
Faceplate, Single Gang, Blank, ea	CS-039	107-85	0.52	9.90	10.42	1	\$10.42
Faceplate, Double Gang, 6-port, ea	CS-040	2-2506D-85	1.52	9.90	11.42	1	\$11.42
Faceplate, Double Gang, Blank, ea	CS-041	108-85	0.77	9.90	10.67	1	\$10.67
Surface Mount Housing, 1 or 2 ports, ea	CS-042	STAR558-85	2.19	9.90	12.09	1	\$12.09

CABLING & SUPPORT STRUCTURE PRICING (CONTINUED)

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Surface Mount Housing, Up to 6 ports, ea	CS-043	STAR108SM-85	2.01		9.90		11.91		1		\$11.91
Mounting Frame, Single Gang, 2-port, ea	CS-044	STAR1062-85	0.98		9.90		10.88		1		\$10.88
Mounting Frame, Single Gang, 4-port, ea	CS-045	STAR1064M-85	1.92		9.90		11.82		1		\$11.82
Surface Mount Box, Single Gang, ea	CS-046	STARMBD-85	2.45		9.90		12.35		1		\$12.35
Surface Mount Box, Double Gang, ea	CS-047	STARMBDD-85	2.79		9.90		12.69		1		\$12.69
110/RJ45 Patch Cord, 6', ea	CS-048	CPC8642-03F006	21.06		0.00		21.06		1		\$21.06
110/RJ45 Patch Cord, 12', ea	CS-049	CPC8642-03F012	24.69		0.00		24.69		1		\$24.69
110/RJ45 Patch Cord, 15', ea	CS-050	CPC8642-03F015	26.49		0.00		26.49		1		\$26.49
110/RJ45 Patch Cord, 20', ea	CS-051	CPC8642-03F020	29.53		0.00		29.53		1		\$29.53
110/RJ45 Patch Cord, 25', ea	CS-052	CPC8642-03F025	32.54		0.00		32.54		1		\$32.54
110/RJ45 Patch Cord, 30', ea	CS-053	CPC8642-03F030	35.57		0.00		35.57		1		\$35.57
Jumper Wire											
1 Pair Cross-Connect Wire, foot	CS-054	7023708	0.03		5.94		5.97		1		\$5.97
1 Pair Cross-Connect Wire, 1000ft/spool	CS-054	7023708	38.98		0.00		38.98		1		\$38.98
2 Pair Cross-Connect Wire, foot	CS-055	7023716	0.07		9.90		9.97		1		\$9.97
2 Pair Cross-Connect Wire, 1000ft/spool	CS-055	7023716	70.20		0.00		70.20		1		\$70.20
Splitters											
Coupler, 8-conductor, reverse wiring, gray, ea	CS-056	159MC-8B	4.28		0.00		4.28		1		\$4.28
Modular "T" Adapter, 4C-2C/4C, ivory ea	CS-057	267C	2.15		0.00		2.15		1		\$2.15
Modular "T" Adapter, 8C-4C/4C, ivory ea	CS-058	400E	3.66		0.00		3.66		1		\$3.66
Modular "T" Adapter, 8C-8C/8C, ivory ea	CS-059	400S	3.66		0.00		3.66		1		\$3.66
Triplex Adapter ivory, ea	CS-060	173A	3.15		0.00		3.15		1		\$3.15
Terminating Blocks											
110 Block, 100 Pair, 25 Pair Cable, ea	CS-061	110AA2-100ft (107058901)	32.86		74.20		107.06		1		\$107.06
110 Block, 300 Pair, 25 Pair Cable, ea	CS-062	110AA2-300ft (107058935)	98.43		192.97		291.40		1		\$291.40
110 Block, 100 Pair, 4 Pair Cable, ea	CS-063	110AB2-100FT (107058919)	34.21		74.22		108.43		1		\$108.43
110 Block, 300 Pair, 4 Pair Cable, ea	CS-064	110AB2-300FT (107058943)	99.78		192.97		292.75		1		\$292.75
110 Connector Module, 4 Pair, ea	CS-065	110C-4 (103801247)	8.17		0.00		8.17		1		\$8.17
110 Connector Module, 5 Pair, ea	CS-066	110C-5 (103801254)	9.43		0.00		9.43		1		\$9.43
110 Wiring Trough, w/legs, ea	CS-067	110A3 (107831133)	9.52		5.94		15.46		1		\$15.46
110 Wiring Backboard w/legs, ea	CS-068	188B2 (104405113)	42.81		5.94		48.75		1		\$48.75
110 Patch Panel Backboard, 300 Pair, ea	CS-069	188D3 (107151193)	106.53		29.69		136.22		1		\$136.22
110 Patch Panel Backboard, 900 Pair, ea	CS-070	188C3 (107151185)	170.24		59.38		229.62		1		\$229.62
110 Block, 25 pair, w/o legs, ea	CS-071	110DEI-25 (107256653)	8.76		29.69		38.45		1		\$38.45
110 Block, 50 pair, w/o legs, ea	CS-072	110DW1-50 (107256661)	10.45		29.69		40.14		1		\$40.14
66 Block, 4X50, ea (DOE Primary)	CS-073	S66M1-50	8.45		29.69		38.14		1		\$38.14
66 Block, 6X50, ea (DOE Primary)	CS-074	S66B3-50	25.87		29.69		55.56		1		\$55.56
66 Block, 4X50, F-F Connector, ea (DOE Primary)	CS-075	S66M2-5W	45.01		29.69		74.70		1		\$74.70
Bridging Clips, ea	CS-076	SAI-100	0.07		1.48		1.55		1		\$1.55
Bridging Clips, 100/bag	CS-076	SAI-100	5.43		0.00		5.43		1		\$5.43
Standoff Bracket, ea	CS-077	SB6	7.76		8.91		16.67		1		\$16.67

CABLING & SUPPORT STRUCTURE PRICING (CONTINUED)

<u>Description</u>	<u>Ref. No.</u>	<u>Mfg. Model No.</u>	<u>Equip. Unit Price</u>	<u>+</u>	<u>Install Unit Price</u>	<u>=</u>	<u>Total Unit Price</u>	<u>x</u>	<u>Est. Qty.</u>	<u>=</u>	<u>Total Bid Price</u>
Snap On Cover, ea	CS-078	BC6	13.16		5.94		19.10		1		\$19.10
Backboards, Telecom Cabinets, and Equipment Racks											
Plywood Backboard, 2'X4', ea	CS-079	N/A	55.37		118.75		174.12		1		\$174.12
Plywood Backboard, 4'X4', ea	CS-080	N/A	110.75		178.13		288.88		1		\$288.88
Plywood Backboard, 4'X8', ea	CS-081	N/A	221.48		237.50		458.98		1		\$458.98
Telephone Cabinet, 2'X3', ea	CS-082	36246 TCF	417.45		178.13		595.58		1		\$595.58
Telephone Cabinet, 4'X4', ea	CS-083	48486 TCF NK	1310.26		178.13		1488.39		1		\$1,488.39
Stainless Steel Enclosure, 6'X6'X4", ea.	CS-269	664-4XSCHC	380.46		205.28		585.74		1		\$585.74
Stainless Steel Enclosure, 12'X10'X6", ea.	CS-270	12106-4XSCHC	715.33		205.28		920.61		1		\$920.61
Stainless Steel Enclosure, 12'X12'X6", ea.	CS-271	12126-4XSCHC	809.95		205.28		1015.23		1		\$1,015.23
Stainless Steel Enclosure, 24'X24'X8", ea.	CS-272	24248-4XS	2159.56		297.80		2457.36		1		\$2,457.36
Stainless Steel Enclosure, 36'X 24'X6", ea.	CS-273	36246-4XS	2654.86		297.80		2952.66		1		\$2,952.66
Stainless Steel Enclosure, 48'X36'X 8", ea.	CS-274	48368-4XS	4346.39		783.53		5129.92		1		\$5,129.92
Equipment Rack, 19'X7", ea	CS-084	55053-703	183.62		178.13		361.75		1		\$361.75
Vertical Wire Manager, ea	CS-085	11374-703	487.64		29.69		517.33		1		\$517.33
XLBET, 7'X19", ea	CS-086	107 308 322	756.79		950.00		1706.79		1		\$1,706.79
XLBET, 7'X23", ea	CS-087	105 158 224	738.26		950.00		1688.26		1		\$1,688.26
Cable Supports											
Mounting Plate Bracket, Single Gang, ea	CS-088	MP1P	1.20		9.90		11.10		1		\$11.10
Mounting Plate Bracket, Double Gang, ea	CS-089	MPAL2	3.53		9.90		13.43		1		\$13.43
Tele-Power Pole, 10'.5", ea	CS-090	25DTP-4	154.10		29.69		183.79		1		\$183.79
Tele-Power Pole, 12.5", ea	CS-091	25DTP-412	193.74		29.69		223.43		1		\$223.43
Tele-Power Pole, 15.5", ea	CS-092	25DTP-415	249.24		29.69		278.93		1		\$278.93
Ceiling Clip, ea	CS-093	CC27 X-AL-H22P8T 8'	3.80		14.84		18.64		1		\$18.64
Ceiling Clip, 100/pkg	CS-093	CC27 X-AL-H22P8T 8'	67.69		0.00		67.69		1		\$67.69
Multi-function (Caddy) Clip, ea	CS-094	4Z34	0.39		5.94		6.33		1		\$6.33
Multi-function (Caddy) Clip, 100/box	CS-094	4Z34	38.73		0.00		38.73		1		\$38.73
Cable Hanger, ea	CS-095	WMX6	0.56		11.88		12.44		1		\$12.44
Cable Hanger, 100/box	CS-095	WMX6	55.45		0.00		55.45		1		\$55.45
Bridle Ring, 2", ea	CS-096	2BRT32	1.18		2.97		4.15		1		\$4.15
Bridle Ring, 2", 100/box	CS-096	2BRT32	117.67		0.00		117.67		1		\$117.67
Bridle Ring, 4", ea	CS-097	4BRT64	1.84		2.97		4.81		1		\$4.81
Bridle Ring, 4", 100/box	CS-097	4BRT64	183.74		0.00		183.74		1		\$183.74
TRM Saddle, ea	CS-098	TRM	0.42		2.97		3.39		1		\$3.39
J-Hook, 1-5/16" Loop, ea	CS-099	CAT21	2.48		9.90		12.38		1		\$12.38
J-Hook, 2" Loop, ea	CS-100	CAT32	2.99		9.90		12.89		1		\$12.89
J-Hook, 4" Loop, ea	CS-101	CAT 64	7.19		9.90		17.09		1		\$17.09
J-Hook w/Beam Clamp for 1-5/16" Loop, ea	CS-102	CAT21BC200	4.51		9.90		14.41		1		\$14.41
J-Hook w/Beam Clamp for 1-5/16" Loop, 100/box	CS-102	CAT21BC200	450.88		0.00		450.88		1		\$450.88
J-Hook w/Beam Clamp for 2" Loop, ea	CS-103	CAT32BC200	5.03		9.90		14.93		1		\$14.93
J-Hook w/Beam Clamp for 2" Loop, 100/box	CS-103	CAT32BC200	502.72		0.00		502.72		1		\$502.72
J-Hook w/Multi-function Clip for 1-5/16" Loop, ea	CS-104	CAT214Z34	3.32		9.90		13.22		1		\$13.22

CABLING & SUPPORT STRUCTURE PRICING (CONTINUED)

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J-Hook w/Multi-function Clip for 2" Loop, ea	CS-105	CAT324Z34	3.85		9.90		13.75		1		\$13.75
Beam Clamp, 1/8" to 5/8" flange, ea	CS-106	BC200	1.08		9.90		10.98		1		\$10.98
Beam Clamp, 1/8" to 5/8" flange, 100/box	CS-106	BC200	107.51		0.00		107.51		1		\$107.51
Beam Clamp, up to 3/4" flange, ea	CS-107	BC400	3.09		9.90		12.99		1		\$12.99
Beam Clamp, up to 3/4" flange, 100/box	CS-107	BC400	308.53		0.00		308.53		1		\$308.53
Junction Box, 6"H X6"W X6"D, ea	CS-108	666 SC	16.57		118.75		135.32		1		\$135.32
Junction Box, 12"H X12"W X6"D, ea	CS-109	12126 SC	38.02		178.13		216.15		1		\$216.15
Junction Box, 12"H X12"W X8"D, ea	CS-110	12128 SC	45.88		237.50		283.38		1		\$283.38
Junction Box, 2'H X 3W 'X 6"D, ea	CS-111	36246 SC	216.69		475.00		691.69		1		\$691.69
Cable Runway, 6" width, foot	CS-112	10250-106	9.99		29.69		39.68		1		\$39.68
Cable Runway, 12" width, foot	CS-113	10250-112	11.41		44.53		55.94		1		\$55.94
Wall Angled Support Kit for 12" ladder rack, ea.	CS-114	11421-712	35.88		23.75		59.63		1		\$59.63
Spiral Wrap, foot	CS-115	T25F-C	0.57		17.81		18.38		1		\$18.38
Spiral Wrap, 100 ft/pkg.	CS-115	T25F-C	56.53		0.00		56.53		1		\$56.53
Cable Tie, Plenum, ea	CS-116	PLT3S-C702Y	3.34		5.94		9.28		1		\$9.28
Surface Mount Raceways											
Pancake Overfloor Raceway, small, 10' ea	CS-117	1500-10	2.68		6.93		9.61		1		\$9.61
Pancake Overfloor Raceway, large, 10' ea	CS-118	2600	4.20		6.93		11.13		1		\$11.13
Flat Elbow, Right Angle, small, ea	CS-119	1511	6.77		17.81		24.58		1		\$24.58
Flat Elbow, Right Angle, large, ea	CS-120	2611	10.73		17.81		28.54		1		\$28.54
Raceway Base, 4.07"X1.77"X8", ea	CS-121	T70BEI8	4.74		17.81		22.55		1		\$22.55
Raceway Cover, 4.07"X8", ea.	CS-122	T70CEI8	2.62		6.93		9.55		1		\$9.55
Inside Corner Fitting, 4.07", ea	CS-123	T70ICEI	16.17		2.97		19.14		1		\$19.14
End Cap Fitting, 4.07", ea	CS-124	T70ECEI	6.58		2.97		9.55		1		\$9.55
Base Coupler /Cover Coupler Fitting, 4.07", ea	CS-125	T70BCEI-X/T70CCEI-X	6.36		2.97		9.33		1		\$9.33
Outside Corner Fitting, 4.07", ea	CS-126	T70OCEI	16.17		2.97		19.14		1		\$19.14
Transition Fitting, 4.07", ea	CS-127	T70TREI	21.72		2.97		24.69		1		\$24.69
Right Angle Fitting, 4.07", ea	CS-128	T70RAEI	25.06		2.97		28.03		1		\$28.03
Tee Fitting, 4.07", ea	CS-129	T70TEI	27.32		2.97		30.29		1		\$30.29
Surface Raceway, 1.51"X.94"X 6', CAT5, ea	CS-130	LD10EI6-A	3.38		17.81		21.19		1		\$21.19
Coupler Fitting, 1.51", CAT5, ea	CS-131	CFX10EI-X	2.14		2.97		5.11		1		\$5.11
Inside Corner Fitting, 1.51", CAT5, ea	CS-132	ICFC10EI-X	2.31		2.97		5.28		1		\$5.28
Right Angle Fitting, 1.51", CAT5, ea	CS-133	RAFC10EI-X	2.31		2.97		5.28		1		\$5.28
Drop Ceiling/Entrance End Fitting, 1.51", CAT5, ea	CS-134	DCEFXEI-X	7.73		2.97		10.70		1		\$10.70
Right Angle/Entrance End Fitting, 1.51", CAT5 ea	CS-135	RAEFXEI-X	7.14		2.97		10.11		1		\$10.11
Outside Corner Fitting, 1.51", CAT5, ea	CS-136	OCFX10EI-X	3.88		2.97		6.85		1		\$6.85
End Cap Fitting, 1.51", CAT5, ea	CS-137	ECFX10EI-X	2.11		2.97		5.08		1		\$5.08
T-Fitting, 1.51", CAT5, ea	CS-138	TFC10EI-X	1.87		2.97		4.84		1		\$4.84
Conduits											
EMT, 1", ea	CS-139	1" EMT	10.04		9.90		19.94		1		\$19.94
EMT, 2", ea	CS-140	2" EMT	11.44		11.88		23.32		1		\$23.32
EMT, 3", ea	CS-141	3" EMT	13.96		14.84		28.80		1		\$28.80

CABLING & SUPPORT STRUCTURE PRICING (CONTINUED)

<u>Description</u>	<u>Ref. No.</u>	<u>Mfg. Model No.</u>	<u>Equip. Unit Price</u>	<u>+</u>	<u>Install Unit Price</u>	<u>=</u>	<u>Total Unit Price</u>	<u>x</u>	<u>Est. Qty.</u>	<u>=</u>	<u>Total Bid Price</u>
EMT, 4", ea	CS-142	4" EMT	16.30		17.81		34.11		1		\$34.11
Rigid Conduit, 1", ft.	CS-261	Rigid Steel, 1"	11.30		30.07		41.37		1		\$41.37
Rigid Conduit, 2", ft.	CS-262	Rigid Steel, 2"	19.46		82.11		101.57		1		\$101.57
Rigid Conduit, 3", ft.	CS-263	Rigid Steel, 3"	44.77		116.52		161.29		1		\$161.29
Rigid Conduit, 4", ft.	CS-264	Rigid Steel, 4"	76.82		158.30		235.12		1		\$235.12
Liquid Flex, 1", ft.	CS-265	YF-70610	2.33		12.43		14.76		1		\$14.76
Liquid Flex, 2", ft.	CS-266	YF-70620	4.22		31.95		36.17		1		\$36.17
Liquid Flex, 3", ft.	CS-267	YF-70630	6.02		47.56		53.58		1		\$53.58
Liquid Flex, 4", ft.	CS-268	YF-70640	8.83		78.50		87.33		1		\$87.33
1" Coring, EMT, ea	CS-143	N/A	30.12		118.75		148.87		1		\$148.87
2" Coring, EMT, ea	CS-144	N/A	34.32		237.50		271.82		1		\$271.82
3" Coring, EMT, ea	CS-145	N/A	41.87		296.88		338.75		1		\$338.75
4" Coring, EMT, ea	CS-146	N/A	48.90		356.25		405.15		1		\$405.15
4" Sleeves, including coring, ea	CS-147	N/A	163.01		391.88		554.89		1		\$554.89
Fire Barrier Moldable Putty, ea	CS-148	MP Stix	24.13		29.69		53.82		1		\$53.82
CP 618 Putty Stick, ea.	CS-334	00314721	45.88		44.53		90.41		1		\$90.41
CP 658T Fire Stop Plug 2in., ea.	CS-335	2030021	57.44		44.53		101.97		1		\$101.97
CP 658T Fire Stop Plug 4in., ea.	CS-336	2030022	76.50		44.53		121.03		1		\$121.03
FS-ONE 10.1 oz. Tube Red, ea.	CS-337	00259580	20.06		44.53		64.59		1		\$64.59
Mineral Wool, ea.	CS-338	236993	25.83		44.53		70.36		1		\$70.36
Tie Cables											
CAT3 CMR Cable:											
25 Pair, foot	CS-149	10032396	0.88		4.95		5.83		1		\$5.83
50 Pair, foot	CS-150	10032471	1.64		4.95		6.59		1		\$6.59
100 Pair, foot	CS-151	10032472	3.16		5.94		9.10		1		\$9.10
CAT3 CMP Cable:											
25 Pair, foot	CS-152	10032111	1.17		4.95		6.12		1		\$6.12
50 Pair, foot	CS-153	10032112	2.37		4.95		7.32		1		\$7.32
100 Pair, foot	CS-154	10032113	4.71		5.94		10.65		1		\$10.65
Riser Cable, ARMM											
25 Pair, foot	CS-155	02-097-03	1.39		3.71		5.10		1		\$5.10
50 Pair, foot	CS-156	02-100-03	2.33		3.71		6.04		1		\$6.04
100 Pair, foot	CS-157	02-104-03	4.38		3.71		8.09		1		\$8.09
200 Pair, foot	CS-158	02-108-03	8.39		3.71		12.10		1		\$12.10
300 Pair, foot	CS-159	02-110-03	12.22		4.75		16.97		1		\$16.97
400 Pair, foot	CS-160	02-112-03	16.04		4.75		20.79		1		\$20.79
600 Pair, foot	CS-161	02-116-03	22.92		4.75		27.67		1		\$27.67
900 Pair, foot	CS-162	02-118-03	34.80		7.72		42.52		1		\$42.52
1200 Pair, foot	CS-163	02-120-03	45.90		7.72		53.62		1		\$53.62

CABLING & SUPPORT STRUCTURE PRICING (CONTINUED)

Description	Ref. No.	Mfg. Model No.	Equip. Unit Price	+	Install Unit Price	=	Total Unit Price	x	Est. Qty.	=	Total Bid Price
Interbuilding Cables and Protectors											
Protector Panel, 25 Pair, ea	CS-164	1880ECA1-25G	394.42		178.13		572.55		1		\$572.55
Protector Panel, 50 Pair, ea	CS-165	1880ECA1-50G	424.74		296.88		721.62		1		\$721.62
Protector Panel, 100 Pair, ea	CS-166	1880ECA1-100G	558.24		475.00		1033.24		1		\$1,033.24
Protector Module, Solid State, ea	CS-167	C3B1S-BAL	4.47		2.97		7.44		1		\$7.44
Ground Wire, #6, foot	CS-168	THHN-6 STR	1.60		1.09		2.69		1		\$2.69
Grounding Bus Bar, 4" X 10" X 1/4", ea.	CS-299	EGBA14410FF	177.19		59.38		236.57		1		\$236.57
Splice Case Flame Retardant											
9.5"X28", ea	CS-169	8006245	588.68		296.88		885.56		1		\$885.56
9.5"X38", ea	CS-170	8006247	789.19		296.88		1086.07		1		\$1,086.07
Splice per Pair, ea	CS-171	N/A	0.00		2.97		2.97		1		\$2.97
OSP Cables, 4 and 6 Pair											
4 Pair, CAT5E OSP, foot	CS-172	04-001-54	0.49		2.97		3.46		1		\$3.46
4 Pair, CAT5E OSP, 1000 ft/reel	CS-172	04-001-54	488.01		0.00		488.01		1		\$488.01
6 Pair, CAT3, OSP Buried, foot	CS-173	2095137	0.56		4.95		5.51		1		\$5.51
6 Pair, CAT3, OSP Buried, 1000 ft/coil	CS-173	2095137	560.74		0.00		560.74		1		\$560.74
OSP Cables, ANMW											
25 Pair, foot	CS-174	6987705	1.19		3.71		4.90		1		\$4.90
50 Pair, foot	CS-175	6987713	2.20		3.71		5.91		1		\$5.91
100 Pair, foot	CS-176	6987721	4.05		3.71		7.76		1		\$7.76
200 Pair, foot	CS-177	6987739	7.89		3.71		11.60		1		\$11.60
300 Pair, foot	CS-178	6987747	11.61		4.75		16.36		1		\$16.36
400 Pair, foot	CS-179	6987754	17.12		4.75		21.87		1		\$21.87
600 Pair, foot	CS-180	6987762	23.25		4.75		28.00		1		\$28.00
900 Pair, foot	CS-181	6987770	34.80		7.72		42.52		1		\$42.52
1200 Pair, foot	CS-182	6987788	45.63		7.72		53.35		1		\$53.35
Fiber Optic Connectors											
SC SM, Connector, ea	CS-183	95-201-41	12.39		110.85		123.24		1		\$123.24
SC MM, Connector, ea	CS-184	95-101-41	6.59		110.85		117.44		1		\$117.44
ST SM, Connector, ea	CS-185	95-201-51	12.39		110.85		123.24		1		\$123.24
ST MM, Connector, ea	CS-186	95-101-51	6.58		110.85		117.43		1		\$117.43
SC UniCam, 50um MM (OM3/4), ea	CS-310	95-050-41-X	22.29		75.00		97.29		1		\$97.29
SC Anaerobic, 50um MM (OM3/4), ea	CS-311	95-051-41-SP-X	7.05		75.00		82.05		1		\$82.05
LC UniCam, 50um MM (OM3/4), ea	CS-328	95-050-99-X	23.47		75.00		98.47		1		\$98.47
LC Anaerobic, 50um MM (OM3/4), ea	CS-329	95-051-98-SP-X	7.40		75.00		82.40		1		\$82.40
Fiber Optic Cables and Innerduct											
62.5um CMR:											
6 Fiber MM, foot	CS-187	006K81-31130-24	0.85		3.71		4.56		1		\$4.56
12 Fiber MM, foot	CS-188	012K81-33130-24	1.61		3.71		5.32		1		\$5.32

CABLING & SUPPORT STRUCTURE PRICING (CONTINUED)

<u>Description</u>	<u>Ref. No.</u>	<u>Mfg. Model No.</u>	<u>Equip. Unit Price</u>	<u>+</u>	<u>Install Unit Price</u>	<u>=</u>	<u>Total Unit Price</u>	<u>x</u>	<u>Est. Qty.</u>	<u>=</u>	<u>Total Bid Price</u>
24 Fiber MM, foot	CS-189	024K81-33130-24	3.46		3.71		7.17		1		\$7.17
8.3um CMR:											
6 Fiber SM, foot	CS-190	006E81-31131-24	0.43		3.71		4.14		1		\$4.14
12 Fiber SM, foot	CS-191	012E81-33131-24	0.93		3.71		4.64		1		\$4.64
24 Fiber SM, foot	CS-192	024E81-33131-24	1.86		3.71		5.57		1		\$5.57
50um Corning CMR:											
6 Fiber, MM, foot	CS-312	006T81-31180-24	1.42		3.71		5.13		1		\$5.13
12 Fiber, MM, foot	CS-313	012T81-33180-24	2.93		3.71		6.64		1		\$6.64
24 Fiber, MM, foot	CS-314	024T81-33180-24	5.94		3.71		9.65		1		\$9.65
62.5um and 8.3um Composite CMR:											
12 Fiber MM/12 Fiber SM, foot	CS-193	024X81-A9034-24	2.72		3.71		6.43		1		\$6.43
18 Fiber MM/6 Fiber SM, foot	CS-194	018C81-A9044-24	2.40		3.71		6.11		1		\$6.11
62.5 um CMP:											
6 Fiber MM, foot	CS-195	006K88-31130-29	0.98		3.71		4.69		1		\$4.69
12 Fiber MM, foot	CS-196	012K88-33130-29	1.78		3.71		5.49		1		\$5.49
24 Fiber MM, foot	CS-197	024K88-33130-29	4.32		3.71		8.03		1		\$8.03
8.3um CMP:											
6 Fiber SM, foot	CS-198	006E88-31131-29	0.51		3.71		4.22		1		\$4.22
12 Fiber SM, foot	CS-199	012E88-33131-29	1.07		3.71		4.78		1		\$4.78
24 Fiber SM, foot	CS-200	024E88-33131-29	2.45		3.71		6.16		1		\$6.16
50um Corning CMP:											
6 Fiber, MM, foot	CS-315	006T88-31180-29	1.57		3.71		5.28		1		\$5.28
12 Fiber, MM, foot	CS-316	012T88-33180-29	3.14		3.71		6.85		1		\$6.85
24 Fiber, MM, foot	CS-317	024T88-33180-29	6.77		3.71		10.48		1		\$10.48
50um Corning CMP Interlocking Armored Cable											
6 Fiber, MM, foot	CS-318	006T88-31180-A3	3.12		3.71		6.83		1		\$6.83
12 Fiber, MM, foot	CS-319	012T88-33180-A3	4.68		3.71		8.39		1		\$8.39
24 Fiber, MM, foot	CS-320	024T88-33180-A3	6.38		4.95		11.33		1		\$11.33
50um CMP (OM4):											
6 Fiber, MIC, 50um MM (OM4), foot	CS-330	006T88-31190-29	2.10		3.71		5.81		1		\$5.81
12 Fiber, MIC, 50um MM (OM4), foot	CS-331	012T88-33190-29	3.75		3.71		7.46		1		\$7.46
24 Fiber, MIC, 50um MM (OM4), foot	CS-332	024T88-33190-29	7.93		3.71		11.64		1		\$11.64
62.5um and 8.3um Composite CMP:											
12 Fiber MM/12 Fiber SM, foot	CS-201	024X88-A9036-24	3.58		3.71		7.29		1		\$7.29
18 Fiber MM/6Fiber SM, foot	CS-202	018X88-A9045-29	3.03		3.71		6.74		1		\$6.74
62.5um Loose Tube OSP:											
6 Fiber MM, foot	CS-203	006KW4-T4130D20	0.95		4.45		5.40		1		\$5.40
12 Fiber MM, foot	CS-204	012KW4-T4130D20	1.74		4.45		6.19		1		\$6.19
24 Fiber, MM, foot	CS-205	024KW4-T4130D20	3.21		4.45		7.66		1		\$7.66
6 Fiber SM, foot	CS-206	006EW4-T4101D20	3.01		4.45		7.46		1		\$7.46
12 Fiber SM, foot	CS-207	012EW4-T4101D20	4.09		4.45		8.54		1		\$8.54
24 Fiber, SM, foot	CS-208	024EW4-T4101D20	6.33		4.45		10.78		1		\$10.78

CABLING & SUPPORT STRUCTURE PRICING (CONTINUED)

<u>Description</u>	<u>Ref. No.</u>	<u>Mfg. Model No.</u>	<u>Equip. Unit Price</u>	<u>+</u>	<u>Install Unit Price</u>	<u>=</u>	<u>Total Unit Price</u>	<u>x</u>	<u>Est. Qty.</u>	<u>=</u>	<u>Total Bid Price</u>
62.5um and 8.3um Composite Loose Tube OSP:											
12 Fiber MM/12 Fiber SM, foot	CS-209	024XSF-A8076D20	2.08		4.45		6.53		1		\$6.53
18 Fiber MM/6 Fiber SM, foot	CS-210	024XSF-T41XXD20	2.92		4.45		7.37		1		\$7.37
8.3um Freedm, indoor/outdoor:											
6 Fiber, foot	CS-211	006ESF-T4101D20	1.61		4.45		6.06		1		\$6.06
12 Fiber, foot	CS-212	012ESF-T4101D20	1.81		4.45		6.26		1		\$6.26
24 Fiber, foot	CS-213	024ESF-T4101D20	3.41		4.45		7.86		1		\$7.86
48 Fiber, foot	CS-214	048EFW-T4101D20	7.16		4.45		11.61		1		\$11.61
62.5 um Freedm, indoor/outdoor:											
6 Fiber, foot	CS-215	006KSF-T4130D20	0.38		4.45		4.83		1		\$4.83
12 Fiber, foot	CS-216	012KSF-T4130D20	0.51		4.45		4.96		1		\$4.96
24 Fiber, foot	CS-217	024KSF-T4130D20	0.81		4.45		5.26		1		\$5.26
48 Fiber, foot	CS-218	048KWF-T4130D20	1.93		4.45		6.38		1		\$6.38
50um OM3, Corning Outdoor Loose Tube											
12 Fiber, MM, foot	CS-321	012TU4-T4180D20	4.11		4.45		8.56		1		\$8.56
24 Fiber, MM, foot	CS-322	024TU4-T4180D20	7.97		4.45		12.42		1		\$12.42
Composite:											
12 Fiber MM/12 Fiber SM, foot	CS-219	024XWF-741XXD20	3.85		4.45		8.30		1		\$8.30
18 Fiber MM/6 Fiber SM, foot	CS-220	024XWF-XXXXXD20	4.68		4.45		9.13		1		\$9.13
8.3um Corning Outdoor Loose Tube											
72 Fiber, SM, foot	CS-339	072EU4-T4701D20	9.66		4.27		13.93		1		\$13.93
Inner Duct, PVC, 1", foot	CS-221	GP 100T	0.76		4.45		5.21		1		\$5.21
Inner Duct, Plenum, 1", foot	CS-222	PLM 100T	2.49		4.45		6.94		1		\$6.94
Inner Duct, Textile 3' 3 Cell, foot	CS-223	MXC 3456 BL 500	3.55		4.45		8.00		1		\$8.00
Inner Duct Orange w/tape, Plenum, 1", foot	CS-333	CF4X1C-6500	4.00		4.45		8.45		1		8.45
Fiber Optic Termination Equipment											
Closet Connector Housing, Rack Mount (up to 2 CCH panels)	CS-224	CCH-01U	239.46		29.69		269.15		1		\$269.15
Closet Connector Houring, Rack Mount (up to 4 CCH panels)	CS-225	CCH-02U	280.60		29.69		310.29		1		\$310.29
Closet Connector Housing, Rack Mount, (up to 6 CCH panels)	CS-226	CCH-03U	321.69		29.69		351.38		1		\$351.38
Closet Connector Housing, Rack Mount, (up to 12 CCH pane	CS-227	CCH-04U	362.83		29.69		392.52		1		\$392.52
Connector Housing, Wall-Mountable (up to 2 CCH panels), e	CS-228	WCH-02P	84.86		59.38		144.24		1		\$144.24
Connector Housing, Wall-Mountable (up to 4 CCH panels), e	CS-229	WCH-04P	163.38		59.38		222.76		1		\$222.76
Connector Housing, Wall-Mountable (up to 6 CCH panels) ee	CS-230	WCH-06P	288.02		59.38		347.40		1		\$347.40
Connector Housing, Wall-Mountable (up to 12 CCH panels),	CS-231	WCH-12P	420.04		59.38		479.42		1		\$479.42
Closet Connector Housing Panels & Fan-out Kits											
6 port, ST, single-mode, ea	CS-232	CCH-CP06-19T	43.62		14.84		58.46		1		\$58.46
6 port, ST multimode, ea	CS-233	CCH-CP06-25T	35.73		14.84		50.57		1		\$50.57
6 port, SC single-mode, ea	CS-234	CCH-CP06-3C	72.95		14.84		87.79		1		\$87.79
6 port, SC multimode, ea	CS-235	CCH-CPO6-56	49.73		14.84		64.57		1		\$64.57

CABLING & SUPPORT STRUCTURE PRICING (CONTINUED)

<u>Description</u>	<u>Ref. No.</u>	<u>Mfg. Model No.</u>	<u>Equip. Unit Price</u>	<u>+</u>	<u>Install Unit Price</u>	<u>=</u>	<u>Total Unit Price</u>	<u>x</u>	<u>Est. Qty.</u>	<u>=</u>	<u>Total Bid Price</u>
CCH Pnl w/3 SC DPLX (6 Fiber) 50um, ea	CS-323	CCH-CP06-E7	63.47		14.85		78.32		1		78.32
12 port duplex, SC single-mode, ea	CS-236	CCH-CP12-59	108.49		14.84		123.33		1		\$123.33
12 port duplex, SC multimode, ea	CS-237	CCH-CP12-91	74.94		14.84		89.78		1		\$89.78
12 port, SC single-mode, ea	CS-238	CCH-CP12-3C	123.61		14.84		138.45		1		\$138.45
12 port, SC multimode, ea	CS-239	CCH-CP12-56	89.98		14.84		103.82		1		\$103.82
12 port, ST single-mode, ea	CS-240	CCH-CP12-19T	72.31		14.84		87.15		1		\$87.15
12 port, ST multimode, ea	CS-241	CCH-CP12-25T	56.52		14.84		71.36		1		\$71.36
CCH Pnl w/6 SC SX (12 Fiber), 50um, ea	CS-324	CCH-CP12-E7	110.92		14.85		125.77		1		\$125.77
CCH Pnl w/3 LC DPLX (6 Fiber) 50um (OM3/4), ea	CS-325	CCH-CP06-E4	72.66		14.85		87.51		1		\$87.51
CCH Pnl w/6 LC DPLX (12 Fiber) 50um (OM3/4), ea	CS-326	CCH-CP12-E4	127.82		14.85		142.67		1		\$142.67
CCH Pnl w/12 LC DPLX (24 Fiber) 50um (OM3/4), ea	CS-327	CCH-CP24-E4	238.21		14.85		253.06		1		\$253.06
Fan-out kit, 6 strand, ea	CS-242	FAN-BT25-06	16.89		59.38		76.27		1		\$76.27
Fan-out kit, 12 strand, ea	CS-243	FAN-BT25-12	19.39		59.38		78.77		1		\$78.77
Optical Housing & Modules											
Pretium EDGE Housing, 48 Pretium EDGE Modules or Panels, ea	CS-343	EDGE-04U	1321.50		109.19		1430.69		1		\$1,430.69
Pretium EDGE Housing, 12 Pretium EDGE Modules or Panels, ea	CS-344	EDGE-01U-SP	662.02		109.19		771.21		1		\$771.21
Pretium EDGE Module, 12 F, LC Duplex to MTP Connector, 50um, MM, OM3,ea	CS-345	ECM-UM12-05-93T	563.07		181.96		745.03		1		\$745.03
Pretium EDGE Module, 12 F, LC Duplex to MTP Connector, SM, OS2, ea	CS-346	ECM-UM12-04-89G	484.90		181.96		666.86		1		\$666.86
Fiber Patch Cords											
Fiber Jumper, LC to SC Duplex, sm, 1 m, ea.	CS-275	GB LCC-D1-01	58.05		0.00		58.05		1		\$58.05
Fiber Jumper, LC to SC, Duplex, sm, 2 m, ea.	CS-276	GB LCC-D1-02	60.08		0.00		60.08		1		\$60.08
Fiber Jumper, LC to SC, Duplex, sm, 3 m, ea.	CS-277	GB LCC-D1-03	62.02		0.00		62.02		1		\$62.02
Fiber Jumper, LC to SC, Duplex, mm, 1m, ea.	CS-278	GB LCC-D2-01	47.59		0.00		47.59		1		\$47.59
Fiber Jumper, LC to SC, Duplex, mm, 2m, ea.	CS-279	GB LCC-D2-02	51.64		0.00		51.64		1		\$51.64
Fiber Jumper, LC to SC, Duplex, mm, 3m, ea.	CS-280	GB LCC-D2-03	55.52		0.00		55.52		1		\$55.52
Fiber Jumper, LC to ST, Duplex, sm, 1 m, ea.	CS-281	GB LCT-D1-01	77.79		0.00		77.79		1		\$77.79
Fiber Jumper, LC to ST, Duplex, sm, 2 m, ea.	CS-282	GB LCT-D1-02	80.66		0.00		80.66		1		\$80.66
Fiber Jumper, LC to ST, Duplex, sm, 3 m, ea.	CS-283	GB LCT-D1-03	83.53		0.00		83.53		1		\$83.53
Fiber Jumper, LC to ST, Duplex, mm, 1m, ea.	CS-284	GB LCT-D2-01	46.91		0.00		46.91		1		\$46.91
Fiber Jumper, LC to ST, Duplex, mm 2m, ea.	CS-285	GB LCT-D2-02	50.96		0.00		50.96		1		\$50.96
Fiber Jumper, LC to ST, Duplex, mm 3m, ea.	CS-286	GB LCT-D2-03	54.84		0.00		54.84		1		\$54.84
Fiber Jumper, SC to SC, DPLX, sm, 1m, ea	CS-287	GB SC2-D1-01	59.57		0.00		59.57		1		\$59.57
Fiber Jumper, SC to SC, DPLX, sm, 2m, ea	CS-288	GB SC2-D1-02	62.27		0.00		62.27		1		\$62.27
Fiber Jumper, SC to SC, DPLX, sm, 3m, ea	CS-289	GB SC2-D1-03	64.97		0.00		64.97		1		\$64.97
Fiber Jumper, SC to SC, DPLX, mm, 1m, ea	CS-290	GB SC2-D2-01	32.74		0.00		32.74		1		\$32.74
Fiber Jumper, SC to SC, DPLX, mm, 2m, ea	CS-291	GB SC2-D2-02	36.79		0.00		36.79		1		\$36.79
Fiber Jumper, SC to SC, DPLX, mm, 3m, ea	CS-292	GB SC2-D2-03	40.67		0.00		40.67		1		\$40.67

CABLING & SUPPORT STRUCTURE PRICING (CONTINUED)

<u>Description</u>	<u>Ref. No.</u>	<u>Mfg. Model No.</u>	<u>Equip. Unit Price</u>	<u>+</u>	<u>Install Unit Price</u>	<u>=</u>	<u>Total Unit Price</u>	<u>x</u>	<u>Est. Qty.</u>	<u>=</u>	<u>Total Bid Price</u>
Fiber Jumper, SC to SC, Simplex, sm, 1m, ea	CS-293	GB SC2-S1-01	23.96		0.00		23.96		1		\$23.96
Fiber Jumper, SC to SC, Simplex, sm, 2m, ea	CS-294	GB SC2-S1-02	26.49		0.00		26.49		1		\$26.49
Fiber Jumper, SC to SC, Simplex, sm, 3m, ea	CS-295	GB SC2-S1-03	29.03		0.00		29.03		1		\$29.03
Fiber Jumper, SC to SC, Simplex, mm, 1m, ea	CS-296	GB SC2-S2-01	18.82		0.00		18.82		1		\$18.82
Fiber Jumper, SC to SC, Simplex, mm, 2m, ea	CS-297	GB SC2-S2-02	23.20		0.00		23.20		1		\$23.20
Fiber Jumper, SC to SC, Simplex, mm, 3m, ea	CS-298	GB SC2-S2-03	27.68		0.00		27.68		1		\$27.68
Fiber Jumper, ST to ST, Duplex, mm, 2 m, ea.	CS-300	GBST2-D2-02	36.79		0.00		36.79		1		\$36.79
Fiber Jumper, ST to SC, Duplex, mm, 2 m, ea.	CS-301	GBSTC-D2-02	36.79		0.00		36.79		1		\$36.79
Fiber Trunk Cables											
Pretium EDGE Trunk Cable, 50um, MM, (OM3), MTP Connector to MTP Connector, 48 F, 120 ft, ea	CS-347	G757548TPNDDU120F	7,371.20		745.15		8116.35		1		\$8,116.35
Pretium EDGE Trunk Cable, 50um, MM, (OM3), MTP Connector to MTP Connector, 24 F, 70 ft, ea	CS-348	G757524TPNDDU070F	1,842.80		401.24		2244.04		1		\$2,244.04
Pretium EDGE Trunk Cable, Bend-improved SM, (OS2), MTP Connector to MTP Connector, 48 F, 100 ft, ea	CS-349	G909048GPNDDU100F	6,632.94		745.15		7378.09		1		\$7,378.09
Pretium EDGE Trunk Cable, Bend-improved SM, (OS2), MTP Connector to MTP Connector, 24 F, 80 ft, ea	CS-350	G909024GPNDDU080F	1,658.24		401.24		2059.48		1		\$2,059.48
Video Cables and Connectors											
RG6, Horizontal Coax, Plenum, foot	CS-244	82120	1.52		4.95		6.47		1		\$6.47
RG6, Horizontal Coax, Non-Plenum, foot	CS-245	9116R	0.17		4.95		5.12		1		\$5.12
RG11/U, Riser Coax, Plenum, foot	CS-246	6139B8	2.87		4.95		7.82		1		\$7.82
RG11, Riser Coax, Non-Plenum, foot	CS-247	1523R	0.26		4.95		5.21		1		\$5.21
Riser Coax, foot	CS-248	PIII 500 JCAR	1.19		4.95		6.14		1		\$6.14
OSP Coax, Aerial, foot	CS-249	QR 540 JCA	0.71		4.95		5.66		1		\$5.66
OSP Coax, Underground, foot	CS-250	PIII 500 JACASS	1.69		5.94		7.63		1		\$7.63
"F" Connector, ea	CS-251	SNS1P6	0.66		23.75		24.41		1		\$24.41
"Versatap" Connector, ea	CS-252	AT32F-09	1.49		23.75		25.24		1		\$25.24
Miscellaneous Equipment											
Atlas 90x40 Constant Directive Re-entrant Paging Horn, ea.	CS-302	CD94	250.00		1865.00		2115.00		1		\$2,115.00
Atlas Pole Mount Mono Channel 100w 70v/100v Amplifier, ea	CS-303	PA1001G	287.00		104.00		391.00		1		\$391.00
Atlas Compression Drive 75 Watts 70.7v/100v, ea.	CS-304	PD75T	200.00		104.00		304.00		1		\$304.00
Atlas CP-400 Power Amplifier, ea.	CS-305	CP400	528.00		104.00		632.00		1		\$632.00
Atlas 8" 90x90 Stadium Speaker, ea.	CS-306	AH99-8ST	660.00		2072.00		2732.00		1		\$2,732.00
Speaker Wire, Unshielded 1 Pair, 12 AWG, ft.	CS-307	8477	1.70		3.11		4.81		1		\$4.81
Speaker Wire, Shielded 1 Pair, 12 AWG, ft.	CS-308	8718	2.26		3.11		5.37		1		\$5.37
Speaker Wire, Shielded 1 Pair, 20 AWG, ft.	CS-309	9154	0.60		2.60		3.20		1		\$3.20

CABLING & SUPPORT STRUCTURE PRICING (CONTINUED)

<u>Description</u>	<u>Ref. No.</u>	<u>Mfg. Model No.</u>	<u>Equip. Unit Price</u>	+	<u>Install Unit Price</u>	=	<u>Total Unit Price</u>	x	<u>Est. Qty.</u>	=	<u>Total Bid Price</u>
Other Labor and Miscellaneous (Refer to Reference - Other Labor and Miscellaneous for details)											
Additional Basic Labor, hour	CS-253	N/A	0.00		82.00		82.00		1		\$82.00
Maintenance Hole Set-Up, each	CS-254	N/A	0.00		208.00		208.00		1		\$208.00
As-Built Drawings, hour	CS-255	N/A	4.22		83.78		88.00		1		\$88.00
Travel Expenses for Neighbor Island Projects, dollars	CS-256	N/A	0.00		15842.00		15842.00		1		\$15,842.00
Prefield Travel Expenses for Neighbor Island Projects, dollars	CS-257	N/A	0.00		1668.00		1668.00		1		\$1,668.00
Shipping - Expedited Air Freight, dollars	CS-258	N/A	500.00		0.00		500.00		1		\$500.00
Overtime Work, hour	CS-259	N/A	0.00		123.00		123.00		1		123.00
Contingency, dollars	CS-260	N/A	90000.00		0.00		90000.00		1		\$90,000.00

Sub-Total: Cabling and Support Structures \$371,375.24

<u>Description</u>	<u>Ref. No.</u>	<u>Rate</u>	x	<u>Sub-Total: Cabling and Support Structures</u>	<u>Total Bid Price</u>
Regulatory Fees/Charges and Taxes					
Hawaii General Excise Tax	GET	0.04712		\$371,375.24	\$17,499.20
Others					

Sub-Total: Regulatory Fees/Charges and Taxes \$17,499.20

Total: Cabling and Support Structures-YEAR 1 \$388,874.44

Escalation Clause:

Hawaiian Telcom's proposal includes an annual escalation of (3%) three percent per year specifically for the piece parts referenced below related to Category 5E and Category 6 type copper cabling. The annual price increase for these items will be effective on the anniversary date of the contract.

CABLING & SUPPORT STRUCTURE PRICING (CONTINUED)

YEAR 2		<u>Ref. No.</u>	<u>Mfg. Model No.</u>	<u>Unit Price</u>	+	<u>Unit Price</u>	=	<u>Unit Price</u>	x	<u>Est. Qty.</u>	=	<u>Bid Price</u>
Description												
Category 5E												
CAT5E Horizontal Cables												
Plenum Rated												
(1) 4 Pair, CMP, gray, foot	CS-001	10032207	0.37	0.75	1.12	10000	\$11,200.00					
(2) 4 Pair, CMP, gray, foot	CS-001	10032207	0.73	1.04	1.77	100000	\$177,000.00					
4 Pair, CMP, gray, 1000 ft/spool	CS-001	10032207	362.24	0.00	362.24	1	\$362.24					
Riser Rated												
(1) 4 Pair, CMR, gray, foot	CS-002	10032510	0.19	0.75	0.94	1	\$0.94					
(2) 4 Pair, CMR, gray, foot	CS-002	10032510	0.37	1.04	1.41	1	\$1.41					
4 Pair, CMR, gray, 1000 ft/spool	CS-002	10032510	181.13	0.00	181.13	1	\$181.13					
Category 6												
CAT6 Horizontal Cables												
Plenum Rated												
(1) 4 Pair, CMP, gray, foot	CS-014	10032026	0.76	0.74	1.50	1	\$1.50					
(2) 4 Pair, CMP, gray, foot	CS-014	10032026	1.53	1.04	2.57	1	\$2.57					
4 Pair, CMP, gray, 1000 ft/spool	CS-014	10032026	762.27	0.00	762.27	1	\$762.27					
Riser Rated												
(1) 4 Pair, CMR, gray, foot	CS-015	10032452	0.32	0.74	1.06	1	\$1.06					
(2) 4 Pair, CMR, gray, foot	CS-015	10032452	0.63	1.04	1.67	1	\$1.67					
4 Pair, CMR, gray, 1000 ft/spool	CS-015	10032452	319.88	0.00	319.88	1	\$319.88					
Sub-Total: Year 2 Category 5E & Category 6 Cable Increase											\$189,834.67	
Year 1 Sub-Total Cabling & Support Structures											\$371,375.24	
Less Year 1 Category 5E & Category 6 Cable											-\$187,694.93	
Sub-Total: Year 1 Cabling & Support Structures Less Cat 5E & Cat 6 Cable											\$183,680.31	
Sub-Total: Year 2 with Adjusted Category 5E & Category 6 Pricing											\$373,514.98	
Description												
Regulatory Fees/Charges and Taxes												
Hawaii General Excise Tax	GET	0.04712			\$373,514.98		\$17,600.03					
Others												
Sub-Total: Regulatory Fees/Charges and Taxes											\$17,600.03	
Total: Cabling and Support Structures-YEAR 2											\$391,115.01	

CABLING & SUPPORT STRUCTURE PRICING (CONTINUED)

YEAR 3		<u>Ref. No.</u>	<u>Mfg. Model No.</u>	<u>Equip. Unit Price</u>	+	<u>Install Unit Price</u>	=	<u>Total Unit Price</u>	x	<u>Est. Qty.</u>	=	<u>Total Bid Price</u>
Description												
Category 5E												
CAT5E Horizontal Cables												
Plenum Rated												
(1) 4 Pair, CMP, gray, foot	CS-001	10032207	0.38	0.75	1.13	10000	\$11,300.00					
(2) 4 Pair, CMP, gray, foot	CS-001	10032207	0.75	1.04	1.79	100000	\$179,000.00					
4 Pair, CMP, gray, 1000 ft/spool	CS-001	10032207	371.07	0.00	371.07	1	\$371.07					
Riser Rated												
(1) 4 Pair, CMR, gray, foot	CS-002	10032510	0.20	0.75	0.95	1	\$0.95					
(2) 4 Pair, CMR, gray, foot	CS-002	10032510	0.38	1.04	1.42	1	\$1.42					
4 Pair, CMR, gray, 1000 ft/spool	CS-002	10032510	185.55	0.00	185.55	1	\$185.55					
Category 6												
CAT6 Horizontal Cables												
Plenum Rated												
(1) 4 Pair, CMP, gray, foot	CS-014	10032026	0.78	0.74	1.52	1	\$1.52					
(2) 4 Pair, CMP, gray, foot	CS-014	10032026	1.57	1.04	2.61	1	\$2.61					
4 Pair, CMP, gray, 1000 ft/spool	CS-014	10032026	780.86	0.00	780.86	1	\$780.86					
Riser Rated												
(1) 4 Pair, CMR, gray, foot	CS-015	10032452	0.33	0.74	1.07	1	\$1.07					
(2) 4 Pair, CMR, gray, foot	CS-015	10032452	0.65	1.04	1.69	1	\$1.69					
4 Pair, CMR, gray, 1000 ft/spool	CS-015	10032452	327.68	0.00	327.68	1	\$327.68					
Sub-Total: Year 3 Category 5E & Category 6 Cable Increase											\$191,974.42	
Year 1 Sub-Total Cabling & Support Structures											\$371,375.24	
Less Year 1 Category 5E & Category 6 Cable											\$187,694.93	
Sub-Total: Year 1 Cabling & Support Structures Less Cat 5E & Cat 6 Cable											\$183,680.31	
Sub-Total: Year 3 with Adjusted Category 5E & Category 6 Pricing											<u>\$375,654.73</u>	
Description												
Regulatory Fees/Charges and Taxes												
Hawaii General Excise Tax	GET	0.04712	x <u>Sub-Total: Cabling and Support Structures</u>						\$375,654.73	\$17,700.85		
Others												
Sub-Total: Regulatory Fees/Charges and Taxes											<u>\$17,700.85</u>	
Total: Cabling and Support Structures-YEAR 3											<u>\$393,355.58</u>	

CABLING & SUPPORT STRUCTURE PRICING (CONTINUED)

<u>Description</u>	YEAR 4	<u>Ref. No.</u>	<u>Mfg. Model No.</u>	<u>Equip. Unit Price</u>	+	<u>Install Unit Price</u>	=	<u>Total Unit Price</u>	x	<u>Est. Qty.</u>	=	<u>Total Bid Price</u>
Category 5E												
CAT5E Horizontal Cables												
Plenum Rated												
(1) 4 Pair, CMP, gray, foot		CS-001	10032207	0.39		0.75		1.14		10000		\$11,400.00
(2) 4 Pair, CMP, gray, foot		CS-001	10032207	0.77		1.04		1.81		100000		\$181,000.00
4 Pair, CMP, gray, 1000 ft/spool		CS-001	10032207	379.91		0.00		379.91		1		\$379.91
Riser Rated												
(1) 4 Pair, CMR, gray, foot		CS-002	10032510	0.21		0.75		0.96		1		\$0.96
(2) 4 Pair, CMR, gray, foot		CS-002	10032510	0.39		1.04		1.43		1		\$1.43
4 Pair, CMR, gray, 1000 ft/spool		CS-002	10032510	189.96		0.00		189.96		1		\$189.96
Category 6												
CAT6 Horizontal Cables												
Plenum Rated												
(1) 4 Pair, CMP, gray, foot		CS-014	10032026	0.80		0.74		1.54		1		\$1.54
(2) 4 Pair, CMP, gray, foot		CS-014	10032026	1.61		1.04		2.65		1		\$2.65
4 Pair, CMP, gray, 1000 ft/spool		CS-014	10032026	799.45		0.00		799.45		1		\$799.45
Riser Rated												
(1) 4 Pair, CMR, gray, foot		CS-015	10032452	0.34		0.74		1.08		1		\$1.08
(2) 4 Pair, CMR, gray, foot		CS-015	10032452	0.67		1.04		1.71		1		\$1.71
4 Pair, CMR, gray, 1000 ft/spool		CS-015	10032452	335.48		0.00		335.48		1		\$335.48
Sub-Total: Year 4 Category 5E & Category 6 Cable Increase											\$194,114.17	
Year 1 Sub-Total Cabling & Support Structures											\$371,375.24	
Less Year 1 Category 5E & Category 6 Cable											-\$187,694.93	
Sub-Total: Year 1 Cabling & Support Structures Less Cat 5E & Cat 6 Cable											\$183,680.31	
Sub-Total: Year 4 with Adjusted Category 5E & Category 6 Pricing											<u>\$377,794.48</u>	
<u>Description</u>		<u>Ref. No.</u>	<u>Rate</u>	x	<u>Sub-Total: Cabling and Support Structures</u>					<u>Total Bid Price</u>		
Regulatory Fees/Charges and Taxes												
Hawaii General Excise Tax		GET	0.04712		\$377,794.48					\$17,801.68		
Others												
Sub-Total: Regulatory Fees/Charges and Taxes											<u>\$17,801.68</u>	
Total: Cabling and Support Structures- YEAR 4											<u>\$395,596.16</u>	

TELEPHONE INSTRUMENT PRICING

See Section 3.16.3 Telephone Instrument Pricing for detailed instructions on how to complete TELEPHONE INSTRUMENT OFFER Form Pages.

<u>Description</u>	<u>Ref. No.</u>	<u>Mfg. Model No.</u>	<u>Equip. Unit Price</u>	+	<u>Install. Unit Price</u>	=	<u>Total Unit Price</u>	X	<u>Est. Qty.</u>	=	<u>Total Bid Price</u>
Analog Single Line Telephones											
Aastra 8004 Platinum (Basic Model, ea)	TI-1	A0780804	\$49.35		\$21.25		\$70.60		10		\$706.00
Aastra 8004 Black (Basic Model, ea)	TI-1	A0780801	\$49.35		\$21.25		\$70.60		10		\$706.00
Aastra 8009 Ash (Programmable Model, ea)- Discontinued	TI-2	A0404589	\$77.02		\$21.25		\$98.27		65		\$6,387.55
Aastra 8009 Black (Programmable Model, ea)-Discontinued	TI-2	A0404585	\$77.02		\$21.25		\$98.27		65		\$6,387.55
Aastra 9316CW Ash (Hands free/Display Model, ea)	TI-3	A0674338	\$160.83		\$21.25		\$182.08		50		\$9,104.00
Aastra 9316CW Black (Hands free/Display Model, ea)	TI-3	A0659641	\$160.83		\$21.25		\$182.08		25		\$4,552.00
Aastra M9110 Charcoal Speakerphone w/Mute(Programmable Model, ea)	TI-12	A1264-0000-10-05	\$55.25		\$21.25		\$76.50		25		\$1,912.50
Analog Two Line Telephones											
Aastra 9417CW Ash (Hands free/Display Model, ea)	TI-4	A0674967	\$197.70		\$21.25		\$218.95		15		\$3,284.25
Aastra 9417CW Black (Hands free/Display Model, ea)	TI-4	A0652243	\$197.70		\$21.25		\$218.95		10		\$2,189.50
Analog Four Line Telephones											
EPIC ET4300 (Four Line Telephone)	TI-5	ET4300	\$247.24		\$21.25		\$268.49		1		\$268.49
Multiline Telephones											
Mendian 5008 Ash (Basic Model, ea)	TI-6	B0240399	\$160.67		\$21.25		\$181.92		20		\$3,638.40
Mendian 5008 Black (Basic Model, ea)	TI-6	B0240401	\$160.67		\$21.25		\$181.92		15		\$2,728.80
Mendian 5208 Ash (Display Model, ea)	TI-7	B0240402	\$261.86		\$21.25		\$283.11		15		\$4,246.65
Mendian 5208 Black (Display Model, ea)	TI-7	B0240404	\$261.86		\$21.25		\$283.11		10		\$2,831.10
Mendian 5316 Ash (Hands free/Display Model, ea)	TI-8	B0240405	\$378.68		\$21.25		\$399.93		35		\$13,997.55
Mendian 5316 Black (Hands free/Display Model, ea)	TI-8	B0240407	\$378.68		\$21.25		\$399.93		20		\$7,998.60
Mendian 5216 Ash (Hands free/Display Headset Compatible, ea)	TI-9	B0240411	\$378.68		\$21.25		\$399.93		1		\$399.93
Mendian 5216 Black (Hands free/Display Headset Compatible, ea)	TI-9	B0240413	\$378.68		\$21.25		\$399.93		1		\$399.93
M522 Meridian Mate Expansion Mod. Ash (Expansion Module, ea)	TI-10	B0240408	\$129.87		\$21.25		\$151.12		1		\$151.12
M522 Meridian Mate Expansion Mod. Black (Expansion Module, ea)	TI-10	B0240410	\$129.87		\$21.25		\$151.12		1		\$151.12
M522 Expansion Module Single Stand Ash ea	TI-10	P0780135	\$10.80		\$0.00		\$10.80		1		\$10.80
M522 Expansion Module Single Stand Black ea	TI-10	P0780103	\$10.80		\$0.00		\$10.80		1		\$10.80
M522 Expansion Module Double Stand Ash ea	TI-10	P0780235	\$21.60		\$0.00		\$21.60		1		\$21.60
M522 Expansion Module Double Stand Black ea	TI-10	P0780203	\$21.60		\$0.00		\$21.60		1		\$21.60

TELEPHONE INSTRUMENT PRICING (CONTINUED)

<u>Description</u>	<u>Ref. No.</u>	<u>Mfg. Model No.</u>	<u>Equip. Unit Price</u>	+	<u>Install. Unit Price</u>	=	<u>Total Unit Price</u>	X	<u>Est. Qty.</u>	=	<u>Total Bid Price</u>
Ancillary Equipment											
ISDN Telephones											
Tone Commander 6210T 10 Button Black (Basic Model, S/T Interface, Blk)	TI-11a	1010280002	\$352.89		\$106.25		\$459.14		1		\$459.14
Tone Commander 6210T 10 Button White (Basic Model, S/T Interface, Wht)	TI-11b	1010280004	\$352.89		\$106.25		\$459.14		1		\$459.14
Tone Commander 6210U 10 Button Black (Basic Model, U Interface, Blk)	TI-11c	1010282002	\$468.34		\$106.25		\$574.59		1		\$574.59
Tone Commander 6210U 10 Button White (Basic Model, U Interface, Wht)	TI-11d	1010282004	\$468.34		\$106.25		\$574.59		1		\$574.59
Tone Commander 6220T 20 Button Black (Advance Model, S/T Interface, Blk)	TI-11e	1010280001	\$429.86		\$106.25		\$536.11		1		\$536.11
Tone Commander 6220T 20 Button White (Advance Model, S/T Interface, Wht)	TI-11f	1010280003	\$429.86		\$106.25		\$536.11		1		\$536.11
Tone Commander 6220U 20 Button Black (Advanced Model, U Interface, Blk)	TI-11g	1010282001	\$545.32		\$106.25		\$651.57		1		\$651.57
Tone Commander 6220U 20 Button White (Advanced Model, U Interface, Wht)	TI-11h	1010282003	\$545.32		\$106.25		\$651.57		1		\$651.57
Tone Commander 6030X 30 Button Expansion Module Black	TI-11i	1010286601	\$332.94		\$106.25		\$439.19		1		\$439.19
Tone Commander 6030X 30 Button Expansion Module White	TI-11j	1010286602	\$332.94		\$106.25		\$439.19		1		\$439.19
Other ISDN Ancillary Equipment											
NT1B-300TC Desktop/Rack Mount NT1 (Network Termination Unit)	TI-11k	1010293101	\$156.87		\$93.50		\$250.37		1		\$250.37
901034-01 Desktop Power Supply (Network Term. Power Supply, U phones)	TI-11l	1090103401	\$42.35		\$21.25		\$63.60		1		\$63.60
NT1B-300 Rack with Power Supply (Rack & Power Supply)	TI-11m	1010293201	\$1,123.73		\$510.00		\$1,633.73		1		\$1,633.73
Tone Commander 102933, NT1B-300 Rack Locking Unit (Rack Locking Unit)	TI-11n	1010293301	\$71.37		\$42.50		\$113.87		1		\$113.87
NT1-200 Battery Backup For NT1B-300 Rack	TI-11o	1010270001	\$673.25		\$297.50		\$970.75		1		\$970.75
NT1-200 Add-on Battery for NT1-200	TI-11p	1010269601	\$570.98		\$255.00		\$825.98		1		\$825.98
Tone Commander PS-50 ISDN Power Supply	TI-11q	1010291501	\$555.94		\$510.00		\$1,065.94		1		\$1,065.94
Sub-Total: Telephone Instruments											\$82,351.28

<u>Description</u>	<u>Ref. No.</u>	<u>Rate</u>	x	<u>Sub-Total: Telephone Instruments</u>	=	<u>Total Bid Price</u>
Regulatory Fees/Charges and Taxes						
Hawaii General Excise Tax	GET	0.04712		\$82,351.28		\$3,880.39
Others						
Sub-Total: Regulatory Fees/Charges and Taxes						\$3,880.39
Total: Telephone Instruments						\$86,231.67

Note: Customer may pick up item from Hawaiian Telecom's baseyard or request item be shipped. If shipped, a \$10.00 drop ship charge (SP-32) per item will apply in addition to the equipment price.

TRANSPORT PRICING

See Section 3.16.4 Network/Transport Pricing for detailed instructions on how to complete OFFER Form Pages.

<u>Description</u>	<u>Ref. No.</u>	<u>One Time Charge</u>	<u>Monthly Unit Price</u>	x	<u>Estimated Quantity</u>	=	<u>Total Monthly Bid Price</u>	<u>Taxes/Surcharges</u>
Transport								
DS-3 CDL Connect, ea	NT-1	\$0.00	\$1,200.00		2		\$2,400.00	PUC; HIS
DS-3 Interisland Transport, ea	NT-2	\$0.00	\$3,500.00		1		\$3,500.00	PUC; HIS
DS-1 CO Connect, ea	NT-3	\$0.00	\$150.00		5		\$750.00	PUC; HIS
DS-1 Service Activation, ea	NT-4	\$0.00	\$20.00		25		\$500.00	PUC; HIS
Microwave Integration, ea	NT-5	\$0.00	\$0.00		8		\$0.00	PUC; HIS
Sub-Total: Transport							<u>\$7,150.00</u>	

<u>Description</u>	<u>Ref. No.</u>	<u>Monthly Unit Price</u>	x	<u>Estimated Quantity</u>	=	<u>Total Monthly Bid Price</u>
Regulatory Fees/Charges and Taxes (by line)						
Interstate Subscriber Line Charge	_____	\$0.00				\$0.00
Federal Universal Service Fee	_____	\$0.00				\$0.00
Statewide Emergency Service Surcharge	_____	\$0.00				\$0.00
Telecommunications Relay Service Surcharge	_____	\$0.00				\$0.00
Sub-Total: Regulatory Fees/Charges and Taxes						<u>\$0.00</u>

TRANSPORT PRICING (CONTINUED)

<u>Description</u>	<u>Ref. No.</u>	<u>Monthly Rate</u>	x	<u>Sub-Total: Transport \$s or Revised Sub-Total: \$s</u>	=	<u>Total Monthly Bid Price</u>
Regulatory Fees/Charges and Taxes (by dollar amount)						
PUC Service Fee	PUC	0.0025		\$7,150.00		\$17.88
Hawaii General Excise Tax						\$0.00
Others	HIS	0.1123		7,150.00		\$802.95
						<u>\$820.83</u>
						<u>\$7,970.83</u>

<u>Description</u>	<u>Ref. No.</u>	<u>One Time Charge</u>	<u>Monthly Unit Price</u>	x	<u>Estimated Quantity</u>	=	<u>Total Monthly Bid Price</u>
Optional Network Proposal*							
Connection with Sandwich Isles Communications, Inc.							
Sandwich Isles 5-Digit Dialing Integration, ea	NT-6a	\$55.00	\$0.00		0		\$0.00
Sandwich Isles Interisland Toll Free Dialing Integration, ea	NT-6b	\$55.00	\$0.00		0		\$0.00
Molokai and Lanai AIN Integration							
5-Digit Dialing Integration, per Kaunakakai, Molokai & Lanai City, Lanai host central offices on the two islands	NT-7	\$500.00	\$0.00		0		\$0.00
Interisland Toll Free Dialing Integration, ea, per island	NT-8	n/a	\$2,087.04		0		\$0.00
							<u>\$0.00</u>

*Offerors are requested to submit pricing for these services. Offerors; however, need not bid on this section to qualify for award. The State shall have the option of accepting or declining the Offeror's proposal and including these services in the contract award.
 ** Charges for the required ISDN PRI trunk connections are not included and would be dependent on the interconnect agreement, as noted in NT-6a and NT-6b.

SERVICE PROVISIONING PRICING (ADDS, MOVES, CHANGES, AND DISCONNECTS)

See Section 3.16.5, Service Provisioning Pricing for detailed instructions on how to complete OFFER Form Pages.

<u>Description</u>	<u>Ref. No.</u>	<u>One Time Charge</u>	x	<u>Annual Est. Qty</u>	=	<u>Total Bid Price</u>	<u>Taxes/Surcharges</u>
Dial Tone The charge that will be assessed for installing dial tone for a new telephone line.	<u>SP-1</u>	<u>\$60.50</u>		200		<u>\$12,100.00</u>	PUC; HIS
Jacks and Wiring CAT5E Install from 1 to 10 new customer lines at any location with RJ series dual modular jacks, 150 ft. or two 4-pair UTP plenum CAT5E wiring, and associated equipment.	<u>SP-2</u>	<u>\$298.43</u>		900		<u>\$268,587.00</u>	GET
Travel Without Dial Tone When jacks and wiring are installed without dial tone the (LR-4) Travel Charge will be assessed. SP-3 is for the travel associated with the installation of horizontal cabling only to the IDF.	<u>SP-3</u>	<u>\$40.00</u>		200		<u>\$8,000.00</u>	GET
Inside Move Same Facility Move telephone service to a new location within the same facility including all network changes. Using existing jack (line).	<u>SP-4</u>	<u>\$46.00</u>		250		<u>\$11,500.00</u>	PUC; HIS
Software Swap Analog Software swap between two existing analog stations; no field work	<u>SP-5</u>	<u>\$22.50</u>		50		<u>\$1,125.00</u>	PUC; HIS
Software Change Make network software changes (e.g. station features, class of service, modification of system configuration, etc.) to an existing telephone service. (line)	<u>SP-6</u>	<u>\$14.00</u>		1,000		<u>\$14,000.00</u>	PUC; HIS
Disconnect Disconnect telephone service. (line)	<u>SP-7</u>	<u>\$0.00</u>		500		<u>\$0.00</u>	
Central Office Activation Installation of a new line to an existing jack.	<u>SP-8</u>	<u>\$30.00</u>		40		<u>\$1,200.00</u>	PUC; HIS
Jacks and Wiring CAT6 Install from 1 to 10 new customer lines at any location with RJ series dual modular jacks, 150 ft. or two 4-pair UTP plenum CAT6 wiring, and associated equipment.	<u>SP-34</u>	<u>\$433.43</u>		1		<u>\$433.43</u>	GET

SERVICE PROVISIONING PRICING (CONTINUED)

<u>Description</u>	<u>Ref. No.</u>	<u>One Time Charge</u>	<u>x</u>	<u>Annual Est. Qty.</u>	<u>=</u>	<u>Total Bid Price</u>	<u>Taxes/Surcharges</u>
Other Charges							
Service Order 1st Line (line)	SP-9	\$26.00		1		\$26.00	PUC; HIS
Service Order Additional Line (line)	SP-10	\$7.50		1		\$7.50	PUC; HIS
Subsequent Service Order (line)	SP-11	\$8.50		1		\$8.50	PUC; HIS
Network Connection (line)	SP-12	\$21.50		1		\$21.50	PUC; HIS
Network Connection Change/Retermination (line)	SP-13	\$7.00		1		\$7.00	PUC; HIS
Software Change (line)	SP-14	\$5.50		1		\$5.50	PUC; HIS
Travel Dial Tone	SP-15	\$30.50		1		\$30.50	PUC; HIS
Voice Mail	SP-16	\$2.50		1		\$2.50	GET
Voice Mail - 1st Mail Box - Existing Access Line	SP-17	\$16.50		1		\$16.50	GET
Voice Mail - Subsequent Mail Box Existing Access Line - Same Order	SP-18	\$8.00		1		\$8.00	GET
Disconnect Voice Mail (line)	SP-19	\$0.00		1		\$0.00	
Install ACD Service (ea.)	SP-20	\$59.50		1		\$59.50	PUC; HIS
Install Call Center Manager ACD Service and Software (ea.)	SP-21	\$100.00		1		\$100.00	PUC; HIS
ISDN BRI Centrex 1st Line	SP-22	\$78.00		1		\$78.00	PUC; HIS
ISDN BRI Centrex Additional Lines - Same Order, Same Location	SP-23	\$29.00		1		\$29.00	PUC; HIS
Call Center Manager Software 2.1 (ea.)	SP-24	\$1,901.11		1		\$1,901.11	GET
Install DSL Service (line)	SP-25	\$50.00		1		\$50.00	GET
Install DSL Service Discount (line)	SP-26	(\$50.00)		1		(\$50.00)	(GET)
Communication Records System	SP-27	\$105,000.00		1		\$105,000.00	GET
Communication Records System Annual Maintenance	SP-28	\$49,920.00		1		\$49,920.00	GET
Training Class - BICSI (One TSB Personnel)	SP-29	\$6,720.50		1		\$6,720.50	GET
Training Class - BICSI - Additional Personnel	SP-30	\$5,052.25		2		\$10,104.50	GET
Training Class - VOIP	SP-31	\$3,750.00		3		\$11,250.00	GET
Dropship Charge	SP-32	\$10.00		1		\$10.00	GET
Delivery Charge	SP-33	\$85.00		1		\$85.00	GET

Sub-Total: Service Provisioning \$502,336.54

<u>Description</u>	<u>Ref. No.</u>	<u>Rate</u>	<u>x</u>	<u>Sub-Total: Service Provisioning</u>	<u>=</u>	<u>Total Bid Price</u>
Regulatory Fees/Charges and Taxes (by dollar amount)						
PUC				\$40,298.00		\$100.75
Hawaii General Excise Tax				\$462,038.54		\$21,771.26
Others				\$40,298.00		\$4,525.47
Sub-Total: Regulatory Fees/Charges and Taxes						<u>\$26,397.48</u>
Total: Service Provisioning						<u>\$528,734.02</u>

LABOR RATE PRICING

See Section 3.16.6, Labor Rate Pricing for detailed instructions on how to complete OFFER Form Pages.

<u>Description</u>	<u>Ref. No.</u>	<u>One Time Charge</u>	x	<u>Annual Est. Qty</u>	=	<u>Total Bid Price</u>
Regular Work Hours Minimum Labor Charge (1/2 hour or fraction of hour) (Charge applies to Service Provisioning per service order for addition/relocation of line(s) requiring a site visit and also applies to repair.)	<u>LR-1</u>	<u>\$42.50</u>				<u>\$0.00</u>
 Bidding Basic Labor Charge (Minimum & Basic Labor Charge converted to rate for bid pricing for authorized work performed during either normal State or normal Offeror hours) (Charge applies to Service Provisioning per service order for addition/relocation of line(s) requiring a site visit and also applies to repair.)	<u>LR-2</u>	<u>\$170.00</u>		200		<u>\$34,000.00</u>
 Basic Labor Charge (Charge applies to Service Provisioning per service order for addition/relocation of line(s) requiring a site visit and also applies to repair.)	<u>LR-3</u>	<u>\$21.25</u>		0		<u>\$0.00</u>
 Travel Charge (Charge applies to Service Provisioning per service order for addition/relocation of line(s) requiring a site visit and also applies to repair.)	<u>LR-4</u>	<u>\$40.00</u>		200		<u>\$8,000.00</u>
 After Hours & Saturdays Minimum Overtime Labor Charge (1/2 hour or fraction of hour) (Charge applies to Service Provisioning per service order for addition/relocation of line(s) requiring a site visit and also applies to repair.)	<u>LR-5</u>	<u>\$63.75</u>				<u>\$0.00</u>
 Bidding Overtime Labor Charge (Minimum Overtime & Overtime Labor Charge converted to rate for bid pricing for authorized work performed outside of normal State or normal Offeror hours) (Charge applies to Service Provisioning per service order for addition/relocation of line(s) requiring a site visit and also applies to repair.)	<u>LR-6</u>	<u>\$255.03</u>		20		<u>\$5,100.60</u>
 Overtime Labor Charge (Charge applies to Service Provisioning per service order for addition/relocation of line(s) requiring a site visit and also applies to repair.)	<u>LR-6a</u>	<u>\$31.88</u>		0		<u>\$0.00</u>

LABOR RATE PRICING (CONTINUED)

Travel Charge (Charge applies to Service Provisioning per service order for addition/relocation of line(s) requiring a site visit and also applies to repair.)	<u>LR-4</u>	<u>\$40.00</u>	20	<u>\$800.00</u>
Sundays & Offeror Holidays				
Minimum Premium Overtime Labor Charge (1/2 hour or fraction of hour) (Charge applies to Service Provisioning per service order for addition/relocation of line(s) requiring a site visit and also applies to repair.)	<u>LR-7</u>	<u>\$85.00</u>	0	<u>\$0.00</u>
Bidding Premium Overtime Labor Charge (Minimum Premium Overtime & Premium Overtime Labor Charge converted to rate for bid pricing for authorized work performed outside of normal State and normal Offeror hours) (Charge applies to Service Provisioning per service order for addition/relocation of line(s) requiring a site visit and also applies to repair.)	<u>LR-8</u>	<u>\$340.00</u>	10	<u>\$3,400.00</u>
Premium Overtime Labor Charge (Charge applies to Service Provisioning per service order for addition/relocation of line(s) requiring a site visit and also applies to repair.)	<u>LR-8a</u>	<u>\$42.50</u>	0	<u>\$0.00</u>
Travel Charge (Charge applies to Service Provisioning per service order for addition/relocation of line(s) requiring a site visit and also applies to repair.)	<u>LR-4</u>	<u>\$40.00</u>	10	<u>\$400.00</u>
				<u>Sub-Total: Labor Rate</u>
				<u><u>\$51,700.60</u></u>

Description
Regulatory Fees/Charges and Taxes
Hawaii General Excise Tax
Others

<u>Ref. No.</u>	<u>Rate</u>	<u>x</u>	<u>Sub-Total: Labor Rate</u>	=	<u>Total Bid Price</u>
GET	0.04712		\$51,700.60		\$2,436.13
					<u>\$0.00</u>
					<u>Sub-Total: Regulatory Fees/Charges and Taxes</u>
					<u><u>\$2,436.13</u></u>
					Total: Labor Rate
					<u><u>\$54,136.73</u></u>



HDJ series 24 port unloaded flat panel OR-PHDHJU24

OVERVIEW

24 port unloaded flat panel for rear loading HDJ series of jacks and accessories. Includes rear management bar and straps. Occupies 1 rack unit of space, 1.75" x 19".

FEATURES

- **High density design:** Maximizes use of rack/cabinet real estate.
- **HDJ jacks and adapters mount quick, easily and securely:** Speed of install and reliability
- **Rear management bar and straps included:** Supports good cabling practices.

Dimension Info

Depth Metric: 163.83 mm
Depth U S: 6.45"
Height Metric: 43.92 mm
Height: 1.75"
Width Metric: 482.6 mm
Rack Units: 1
Width U S: 19.00"
Height U S: 1.73"

General Info

Product Series: Clarity
Type: Patch Panels
Color: Black

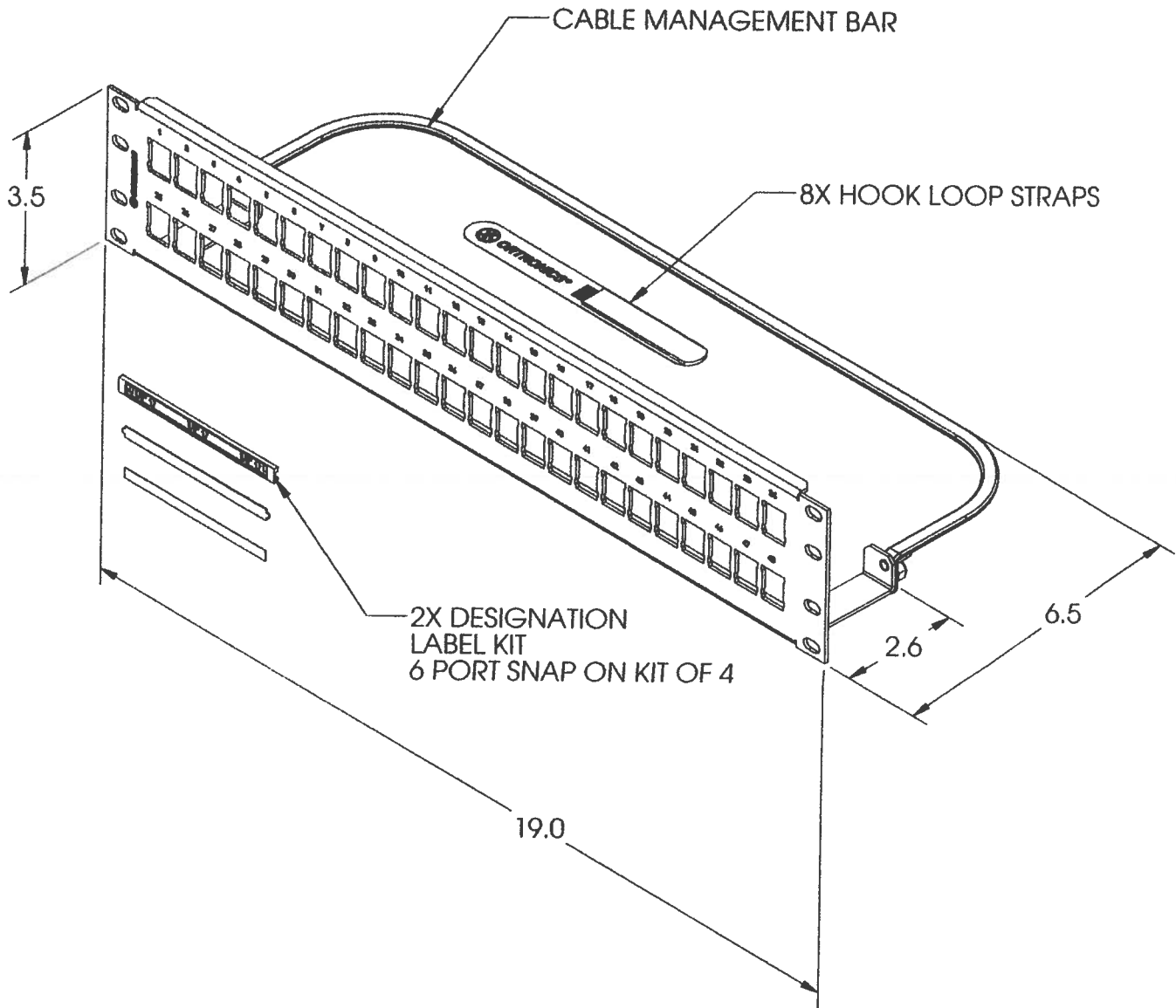
Technical Info

Category Rating: Cat6
Performance Rating: Cat6

Listing Agency Info

cUL E131600
UL E131600

CS-341



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 WWW.ORTRONICS.COM

TITLE
 48 PORT FLAT HDJ PANEL UNLOADED 3.5 X 19.0

	NAME	DATE	SIZE	CAD FILE	DWG NO	REV
DWN	RWS	08/08/11	A	PSDHJU48C	OR-PSDHJU48	-
CHK	??	??	SCALE	1:3	WEIGHT	SHEET
APPR	??	??				1 OF 1



Clarity Cat6 High Density Jack, T568A/B, green OR-HDJ6-45

OVERVIEW

Clarity 6 High Density Jack, ETL verified to TIA Category 6 component specification. Rear-loading, 180° exit, 8 position. Quick and easy lacing cap termination. Universal T568A/B wiring label. Center tuned to Clarity 6 patch cords for optimum performance.

FEATURES

- **ETL Verified to Category 6 component standard:** Ensures standards compliance.
- **Center tuned design:** Transparent interface with Clarity 6 cords.
- **Easy lace wiring cap** reduces wiring time.
- **Easy to follow universal wiring label:** Quick and user-friendly, eliminates confusion.
- **New High density footprint :** supports 48 port 1RU panel applications
- **Rear loading:** preferred mounting for panels.
- **RoHS compatible, C6A marking on jack face:** Supports 606 designation requirements.
- **RoHS compliant:** Lead free.

Dimension Info

Depth Metric: 40.89 mm
Height Metric: 21.34 mm
Width Metric: 16.00 mm
Height U.S.: 0.84"

General Info

Product Series: Clarity
Type: Patch Panels
Footprint: High Density Jack (HDJ)
Color: Green
Number Of Ports: 1

Technical Info

Wire Gauge: 22-24 AWG
Category Rating: Cat6/UTP
Performance Rating: Cat6

Construction Info

Component2: Array of eight modular dual reactance Cat6 contacts. - Material2: Beryllium copper, Finish_Plating2: Nickel plating and a minimum of 50 micro inches of selective gold plating in contact area
Component3: Compact IDC contacts lower EMI - Material3: Phosphor bronze, Finish_Plating3: Nickel plating with tin over plate

Listing Agency Info

FCC
UL E131600

Pretium EDGE® Housing

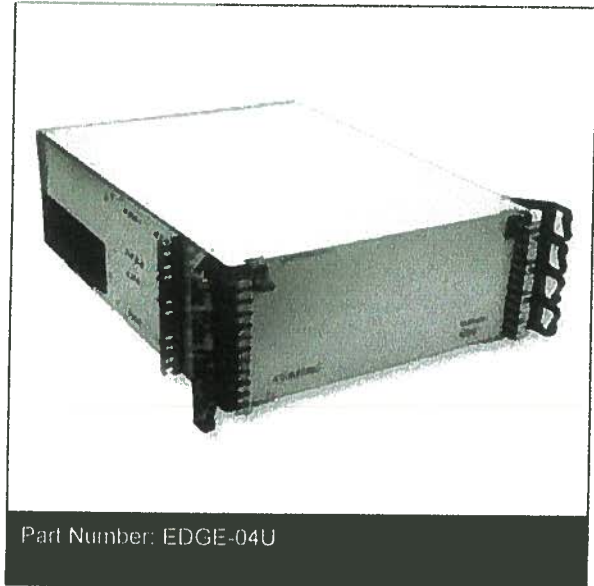
4 rack units, holds 48 Pretium EDGE® Solutions Modules or Panels

CS-343

CORNING

Pretium EDGE® HD Solutions are high-density preterminated optical cabling solutions offering industry leading connector density. With unprecedented finger access, there is no need for additional tools enabling faster moves, adds and changes.

The Pretium EDGE® Solutions 4U housing contains 12 individually sliding trays that can accommodate as many as four 12-fiber modules per tray, resulting in improved finger access to connectors and allowing for individual access without compromising the optical connectivity of other ports. Front jumper management guides on each tray allow for jumpers to be routed to the left or right. External jumper routing guides facilitate proper slack management to ensure drawer movement. Industry-leading port labeling is available on the rear side of the housing's front door, and each housing includes mounting plug receptacle areas at the rear, which enable fast and easy installation and strain-relief of Pretium EDGE Solutions trunk cables. Brush cable entries make trunk entry quick and easy.



Features and Benefits

Universal wired components

Enable moves, adds and changes without polarity concerns; provide a simple migration path between 2-fiber and parallel optic applications

Revolutionary drawer-style hardware

Offers unprecedented finger access while achieving the highest port density in the market

Specifications

General Specifications

Application

Data Center LAN/SAN

Product Type

Housings

Pretium EDGE® Housing

4 rack units, holds 48 Pretium EDGE® Solutions Modules or Panels

CORNING

Design - Hardware

Housing Type	Pretium EDGE® HD
Height Unit	4U
Maximum Number of Panels per Housing	48
Panel or Module Type	Pretium EDGE®

Mechanical Characteristics

Dimensions (HxWxD)	178 mm x 432 mm x 625 mm (7 in x 17 in x 24.6 in)
Minimum Cabinet Size	800 mm

Chemical Characteristics

RoHS	Free of hazardous substances according to RoHS 2002/95/EG
------	---

Ordering Information

Part Number	EDGE-04U
Product Description	Pretium EDGE® Solutions Housing, 4 rack units, holds 48 Pretium EDGE® Solutions Modules or Panels
Module Capacity	48
Trunk Capacity	24 (size 1 or 2) 48 (size 1 double stack)

Shipping Information

Units per Delivery	1/1
--------------------	-----



Corning Cable Systems LLC • PO Box 489 • Hickory, NC 28603-0489 USA

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Pretium EDGE® Solutions Housing, HD

1 rack unit, holds 12 Pretium EDGE® Solutions Modules or Panels

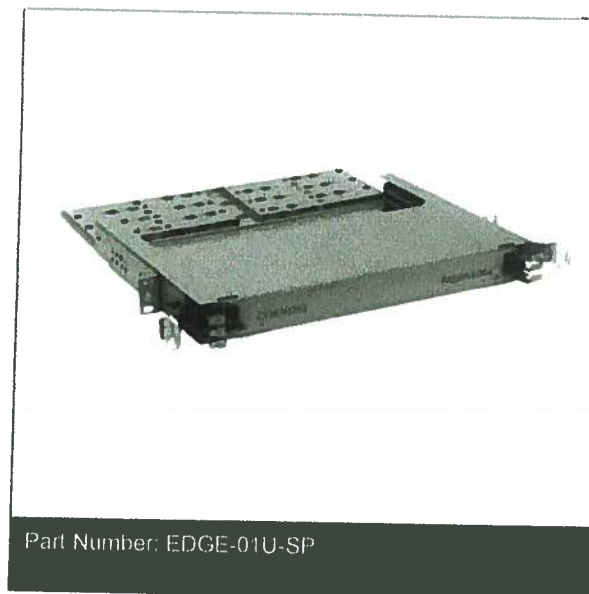
CS-344

CORNING

Pretium EDGE® Solutions housings are available in various sizes and mount in 19-in racks or cabinets. Combined with Pretium EDGE Solutions trunks, modules and jumpers, they provide industry leading high-density connectivity.

In the main distribution area, the Pretium EDGE® Solutions housing provides a cross-connect for first level backbone cables, entrance cables and equipment cables. In the equipment distribution area, the housing is an interconnect to system equipment (such as SAN switches, servers and IP switches). The housing also accommodates the mixing and matching of multiple Pretium EDGE Solutions modules and panels within one chassis.

Industry-leading port labeling is available on the rear side of the housing's front door, and each housing includes mounting plug receptacle areas at the rear, which enable fast and easy installation and strain-relief of Pretium EDGE® Solutions trunk cables. Brush cable entry makes trunk entry quick and easy.



Features and Benefits

Revolutionary drawer-style hardware

Offers unprecedented finger access while achieving the highest port density in the market

Universal wired components

Enable moves, adds and changes without polarity concerns; provide a simple migration path between 2-fiber and parallel optic applications

Specifications

General Specifications

Application	Data Center LAN/SAN
Product Type	Housings

Pretium EDGE® Solutions Housing, HD

1 rack unit, holds 12 Pretium EDGE® Solutions Modules or Panels

CORNING

Design - Hardware

Housing Type	Pretium EDGE® HD
Height Unit	1U
Maximum Number of Panels per Housing	12
Panel or Module Type	Pretium EDGE®
Fiber Capacity	Up to 144 fibers when installing LC connectors; up to 576 fibers when installing MTP® connectors
Housing Color	Silver

Mechanical Characteristics

Dimensions (HxWxD)	44 mm x 432 mm x 503 mm (1.75 in x 17 in x 19.8 in)
--------------------	---

Chemical Characteristics

RoHS	Free of hazardous substances according to RoHS 2002/95/EG
------	---

Ordering Information

Part Number	EDGE-01U-SP
Product Description	Pretium EDGE® Solutions Housing, 1 rack unit, holds 12 Pretium EDGE® Solutions Modules or Panels

Shipping Information

Units per Delivery	1/1
--------------------	-----



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Pretium EDGE® Module

12 F, LC Duplex to MTP® Connector, 50 µm multimode (OM3)

CS-345

CORNING

The Pretium EDGE® modules provide the interface between the MTP® connector on the trunk and the LC duplex jumpers that will then connect directly into the electronics. The LC duplex adapters feature hinged VFL-compatible shutters that move up and out of the way when the connector is inserted. Specially designed indents in the shutters ensure that the end faces of the connectors are never touched. These shutters replace the standard dust caps that typically once removed are never replaced, exposing the interior end faces to dust particles and possible damage.

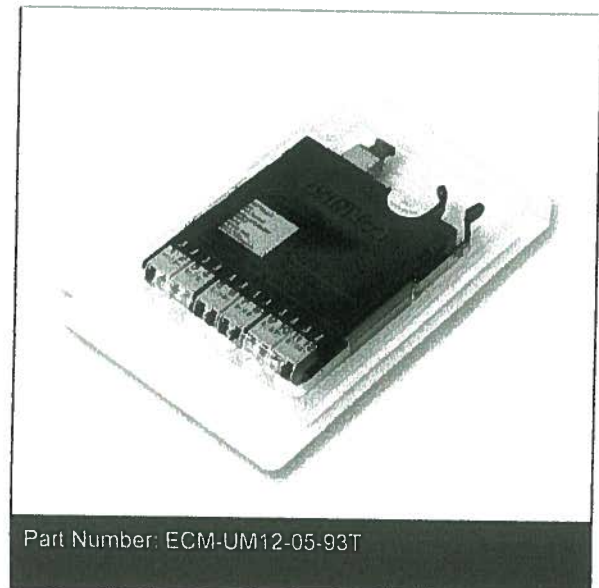
Features and Benefits

Connector modules

Allow for fiber modularity while offering both front- and rear-loading capability

Shuttered modules

Create one-hand operation while eliminating need to keep up with dust caps



Pretium EDGE® Module

12 F, LC Duplex to MTP® Connector, 50 µm multimode (OM3)

CORNING

Specifications

General Specifications

Application	Data Center LAN/SAN
Product Type	Panels & Modules
Fiber Category	50 µm MM (OM3)

Design - Hardware

Fiber Count	12
Number of Adapters per Panel	6
Adapter Type Front	Shuttered LC
Adapter Color Front	Aqua
Adapter Type Back	MTP
Adapter Color Back	Aqua

Mechanical Characteristics

Dimensions (W x D x H)	90 mm x 124 mm x 12 mm (3.53 in x 4.87 in x 0.463 in)
------------------------	---

Optical Specification - Hardware

Module Insertion Loss, Max	0.5 dB
Wavelengths	850 nm / 1,300 nm

Design - Connector A

Connector Type	MTP® (pinned)
Ferrule Material	Composite

Design - Connector B

Connector Type	LC Uniboot
Ferrule Material	Ceramic

Pretium EDGE® Module

12 F, LC Duplex to MTP® Connector, 50 µm multimode (OM3)

CORNING

Cable Design

Fiber Count	12
Polarity	Universal

Chemical Characteristics

RoHS	Free of hazardous substances according to RoHS 2002/95/EG
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Ordering Information

Part Number	ECM-UM12-05-93T
Product Description	Pretium EDGE® Solutions Module, 12 F, LC Duplex to MTP® Connector, 50 µm multimode (OM3)
EAN Code	4042673254508
Weight	0.11 kg (0.25 lb)

Shipping Information

Units per Delivery	1/1
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Pretium EDGE® Module

12 F, LC Duplex to MTP® Connector, Bend-improved Single-mode (OS2)

CS-346

CORNING

The Pretium EDGE® modules provide the interface between the MTP® connector on the trunk and the LC duplex jumpers that will then connect directly into the electronics. The LC duplex adapters feature hinged VFL-compatible shutters that move up and out of the way when the connector is inserted. Specially designed indents in the shutters ensure that the end faces of the connectors are never touched. These shutters replace the standard dust caps that typically once removed are never replaced, exposing the interior end faces to dust particles and possible damage.

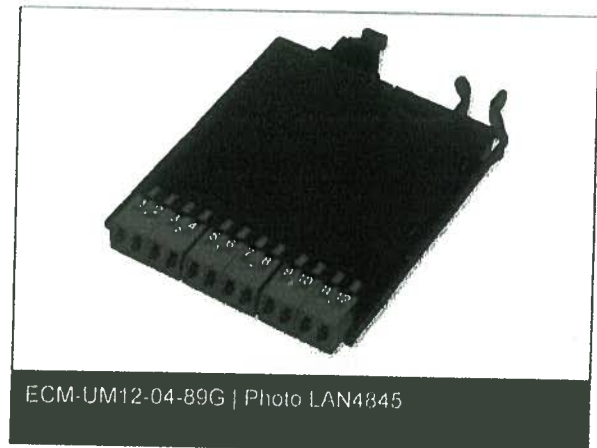
Features and Benefits

Connector modules

Allow for fiber modularity while offering both front- and rear-loading capability

Shuttered modules

Create one-hand operation while eliminating need to keep up with dust caps



Pretium EDGE® Module

12 F, LC Duplex to MTP® Connector, Bend-improved Single-mode (OS2)

CORNING

Specifications

General Specifications

Application	Data Center LAN/SAN
Product Type	Panels & Modules
Fiber Category	SM (OS2)

Design - Hardware

Fiber Count	12
Number of Adapters per Panel	6
Adapter Type Front	Shuttered LC
Adapter Color Front	Blue
Adapter Type Back	MTP
Adapter Color Back	Black

Mechanical Characteristics

Dimensions (W x D x H)	90 mm x 124 mm x 12 mm (3.53 in x 4.87 in x 0.463 in)
------------------------	---

Optical Specification - Hardware

Module Insertion Loss, Max	1.25 dB
Wavelengths	1,310 nm / 1,550 nm

Design - Connector A

Connector Type	MTP® (pinned)
Ferrule Material	Composite

Design - Connector B

Connector Type	LC Uniboot
Ferrule Material	Ceramic

Pretium EDGE® Module

12 F, LC Duplex to MTP® Connector, Bend-improved Single-mode (OS2)

CORNING

Cable Design

Fiber Count	12
Polarity	Universal

Chemical Characteristics

RoHS	Free of hazardous substances according to RoHS 2002/95/EG
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Ordering Information

Part Number	ECM-UM12-04-89G
Product Description	Pretium EDGE® Solutions Module, 12 F, LC Duplex to MTP® Connector, Bend-improved Single-mode (OS2)
EAN Code	4042673188575
Weight	0.11 kg (0.25 lb)

Shipping Information

Units per Delivery	1/1
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Pretium EDGE® Trunk Cable

50 µm multimode (OM3), MTP® Connector to MTP Connector, 48 F, with 33/33 inch legs, pulling grip one side, 120 ft

CORNING

CS-347

The Pretium EDGE® MTP® Trunks provide the backbone of the Pretium EDGE Solution. With nonpinned MTPs on both ends of the cable, these trunks are designed to interface with the Pretium EDGE or Plug & Play™ modules. All trunks are shipped with strain-relief clips that allow for the tool-less installation in both Pretium EDGE and Plug & Play housings. These trunks conform to TIA-568 Type-B polarity.

Features and Benefits

High-density trunk cables

Allow tighter trunk cable bends for slack storage and routing

Low insertion loss performance

Allows for more connections in a link when deploying a TIA-942-compliant system

Universal wired components

Enable moves, adds and changes without polarity concerns; provide a simple migration path between 2-fiber and parallel optic applications

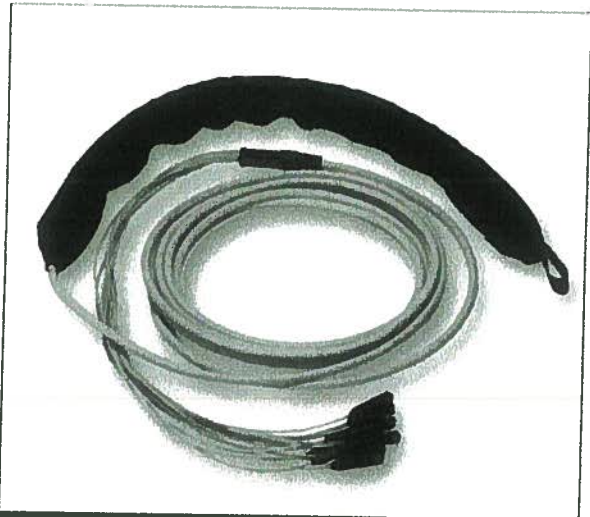
Factory-terminated solutions

Provide consistent quality, ensure system performance and reduce installation time

Standards

Approval and Listings

NFPA 262, National Electrical Code® (NEC®), OFNP, CSA FT-6



Part Number: G757548TPNDDU120F



Part Number: G757548TPNDDU120F

Pretium EDGE® Trunk Cable

50 µm multimode (OM3), MTP® Connector to MTP Connector, 48 F, with 33/33 inch legs, pulling grip one side, 120 ft

CORNING

Specifications

General Specifications

Application	Data Center LAN/SAN
Cable Type	Indoor; ANSI/ICEA S-83-596
Flame Rating	Plenum (OFNP)
Cable Assembly Type	Pretium EDGE® Trunk
Fiber Category	50 µm MM (OM3)

Temperature Range

Operation	-10 °C to 60 °C (14 °F to 140 °F)
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Design - Connector A

Connector Type	MTP® (non-pinned)
Ferrule	Composite

Optical Specifications - Connector A

Reflectance, Typical	< -20 dB
Insertion Loss, Max.	0.35 dB

Design - Connector B

Connector Type	MTP® (non-pinned)
Ferrule	Composite

Optical Specifications - Connector B

Reflectance, Typical	< -20 dB
Insertion Loss, Max.	0.35 dB

Pretium EDGE® Trunk Cable

50 µm multimode (OM3), MTP® Connector to MTP Connector, 48 F, with 33/33 inch legs, pulling grip one side, 120 ft

CORNING

Cable Design

Fiber Count	48
Outer Jacket Color	Aqua
Polarity	Universal; TIA-568 Type-B
Strain-Relief Bracket Type	2

Mechanical Characteristics Cable

Nominal Outer Diameter	8.5 mm ± 0.3 mm (0.33 in)
Min. Bend Radius Installation	127.5 mm (5.02 in)
Min. Bend Radius Operation	42.5 mm (1.67 in)
Max. Tensile Strength for Installation	660 N
Weight	63 kg/km (42 lb/1000 ft)
Minimum Conduit Size with 18-in Elbow	3.0 in

Furcation - Connector A

Leg Length	838 mm (-0 mm/+76 mm) (33 in (-0 in/+3 in))
Leg Color	Aqua
Leg Diameter	2.0 mm
Furcation Type - A	Pretium EDGE® Size 2; 20 mm x 20 mm x 108.6 mm

Furcation - Connector B

Leg Length	838 mm (-0 mm/+76 mm) (33 in (-0 in/+3 in))
Leg Color	Aqua
Leg Diameter	2.0 mm
Furcation Type - B	Pretium EDGE® Size 2; 20 mm x 20 mm x 108.6 mm

Pulling Grip - Connector A

Pulling Grip - Connector A	Yes
Pulling Grip Outer Diameter	56 mm (2.2 in)
Min. Duct Size Diameter	89 mm (3.5 in)
Tensile Strength	440 N (100 lb)

Pretium EDGE® Trunk Cable

50 µm multimode (OM3), MTP® Connector to MTP Connector, 48 F, with 33/33 inch legs, pulling grip one side, 120 ft

CORNING

Pulling Grip - Connector B

Pulling Grip - Connector B	No
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Chemical Characteristics

RoHS	Free of hazardous substances according to RoHS 2002/95/EG
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Fiber Specifications

Optical Characteristics (cabled)

Fiber Name	G50/125 Pretium 300 ULTRA-BEND 7.5
Fiber Type	Multimode
Fiber Core Diameter	50 µm
Fiber Category	OM3
Fiber Compliance	IEC 60793-2-10 for A1a class 50/125 multimode fibers; TIA/EIA 492AAAC-A (OM3); ITU-T Recommendation G.651; ISO/IEC 11801 Grade OM3
Wavelengths	850 nm / 1300 nm
Maximum Attenuation	3.0 dB/km / 1.0 dB/km
Min. Overfilled Launch (OFL) Bandwidth	1500 MHz*km / 500 MHz*km
Minimum Effective Modal Bandwidth (EMB)	2000 MHz*km / -
Serial 1 Gigabit Ethernet	1000 m / 600 m / -
Serial 10 Gigabit Ethernet	300 m / -
Standards in Compliance	TIA/EIA 492AAAC-A, Tested with minEMBc method to TIA/EIA 455-220, IEC 60793-2-10 Type A1a.2 Ed.2.0 and IEC 60793-1-49 Ed.2.0, ITU-T G651, ISO/IEC 11801 Cat. OM3
Fiber Code	T
Induced Attenuation @ 7.5 mm Radius	< 0.2 dB / -

- Notes:
- 1) 50 µm multimode fiber macrobend loss ≤ 0.2 dB at 850 nm for two turns around 7.5 mm radius mandrel.
 - 2) Meets 0.75 ns optical skew when used in all Corning Cable Systems Plug & Play™/Pretium EDGE® Systems Solutions.
 - 3) Improved attenuation and bandwidth options available.
 - 4) Bend-insensitive single-mode fibers available on request.
 - 5) Contact a Corning Cable Systems Customer Care Representative for additional information.

Pretium EDGE® Trunk Cable

50 µm multimode (OM3), MTP® Connector to MTP Connector, 48 F, with 33/33 inch legs, pulling grip one side, 120 ft



Ordering Information

Part Number	G757548TPNDDU120F
Product Description	Pretium EDGE® Solutions Trunk Cable, 50 µm multimode (OM3), MTP® Connector to MTP Connector, 48 F, with 33/33 inch legs, pulling grip one side, 120 ft
Length	120 ft (-0 ft/+2 ft) (36.58 m (-0 m/+0.61 m))

Shipping Information

Units per Delivery	1/1
Reel Diameter	23.5 in
Reel Width	5 in



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Pretium EDGE® Trunk Cable

50 µm multimode (OM3), MTP® Connector to MTP Connector, 24 F, with 33/33 inch legs, pulling grip one side, 70 ft

CS-348

CORNING

The Pretium EDGE® MTP® Trunks provide the backbone of the Pretium EDGE Solution. With nonpinned MTPs on both ends of the cable, these trunks are designed to interface with the Pretium EDGE or Plug & Play™ modules. All trunks are shipped with strain-relief clips that allow for the tool-less installation in both Pretium EDGE and Plug & Play housings. These trunks conform to TIA-568 Type-B polarity.

Features and Benefits

High-density trunk cables

Allow tighter trunk cable bends for slack storage and routing

Low insertion loss performance

Allows for more connections in a link when deploying a TIA-942-compliant system

Universal wired components

Enable moves, adds and changes without polarity concerns; provide a simple migration path between 2-fiber and parallel optic applications

Factory-terminated solutions

Provide consistent quality, ensure system performance and reduce installation time

Standards

Approval and Listings

NFPA 262, National Electrical Code® (NEC®), OFNP, CSA FT-6



Pretium EDGE® Trunk Cable

50 µm multimode (OM3), MTP® Connector to MTP Connector, 24 F, with 33/33 inch legs, pulling grip one side, 70 ft

CORNING

Specifications

General Specifications

Application	Data Center LAN/SAN
Cable Type	Indoor; ANSI/CEA S-83-596
Flame Rating	Plenum (OFNP)
Cable Assembly Type	Pretium EDGE® Trunk
Fiber Category	50 µm MM (OM3)

Temperature Range

Operation	-10 °C to 80 °C (14 °F to 140 °F)
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Design - Connector A

Connector Type	MTP® (non-pinned)
Ferrule	Composite

Optical Specifications - Connector A

Reflectance, Typical	< -20 dB
Insertion Loss, Max.	0.35 dB

Design - Connector B

Connector Type	MTP® (non-pinned)
Ferrule	Composite

Optical Specifications - Connector B

Reflectance, Typical	< -20 dB
Insertion Loss, Max.	0.35 dB

Pretium EDGE® Trunk Cable

50 µm multimode (OM3), MTP® Connector to MTP Connector, 24 F, with 33/33 inch legs, pulling grip one side, 70 ft

CORNING

Cable Design

Fiber Count	24
Outer Jacket Color	Aqua
Polarity	Universal; TIA-568 Type-B
Strain-Relief Bracket Type	1

Mechanical Characteristics Cable

Nominal Outer Diameter	7.7 mm ± 0.3 mm (0.30 in)
Min. Bend Radius Installation	115.5 mm (4.55 in)
Min. Bend Radius Operation	38.5 mm (1.52 in)
Max. Tensile Strength for Installation	660 N
Weight	50 kg/km (34 lb/1000 ft)
Minimum Conduit Size with 18-in Elbow	2.5 in

Furcation - Connector A

Leg Length	838 mm (-0 mm/+76 mm) (33 in (-0 in/+3 in))
Leg Color	Aqua
Leg Diameter	2.0 mm
Furcation Type - A	Pretium EDGE® Size 1; 14.7 mm x 14.7 mm x 108.6 mm

Furcation - Connector B

Leg Length	838 mm (-0 mm/+76 mm) (33 in (-0 in/+3 in))
Leg Color	Aqua
Leg Diameter	2.0 mm
Furcation Type - B	Pretium EDGE® Size 1; 14.7 mm x 14.7 mm x 108.6 mm

Pulling Grip - Connector A

Pulling Grip - Connector A	Yes
Pulling Grip Outer Diameter	41 mm (1.6 in)
Min. Duct Size Diameter	64 mm (2.5 in)
Tensile Strength	440 N (100 lb)

Pretium EDGE® Trunk Cable

50 µm multimode (OM3), MTP® Connector to MTP Connector, 24 F, with 33/33 inch legs, pulling grip one side, 70 ft

CORNING

Pulling Grip - Connector B

Pulling Grip - Connector B	No
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Chemical Characteristics

RoHS	Free of hazardous substances according to RoHS 2002/95/EG
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Fiber Specifications

Optical Characteristics (cabled)

Fiber Name	G50/125 Pretium 300 ULTRA-BEND 7.5
Fiber Type	Multimode
Fiber Core Diameter	50 µm
Fiber Category	OM3
Fiber Compliance	IEC 60793-2-10 for A1a class 50/125 multimode fibers; TIA/EIA 492AAAC-A (OM3); ITU-T Recommendation G.651; ISO/IEC 11801 Grade OM3
Wavelengths	850 nm / 1300 nm
Maximum Attenuation	3.0 dB/km / 1.0 dB/km
Min. Overfilled Launch (OFL) Bandwidth	1500 MHz*km / 500 MHz*km
Minimum Effective Modal Bandwidth (EMB)	2000 MHz*km / -
Serial 1 Gigabit Ethernet	1000 m / 600 m / -
Serial 10 Gigabit Ethernet	300 m / -
Standards in Compliance	TIA/EIA 492AAAC-A, Tested with minEMBc method to TIA/EIA 455-220, IEC 60793-2-10 Type A1a.2 Ed.2.0 and IEC 60793-1-49 Ed.2.0, ITU-T G651, ISO/IEC 11801 Cat. OM3
Fiber Code	T
Induced Attenuation @ 7.5 mm Radius	< 0.2 dB / -

- Notes:
- 1) 50 µm multimode fiber macrobend loss ≤ 0.2 dB at 850 nm for two turns around 7.5 mm radius mandrel.
 - 2) Meets 0.75 ns optical skew when used in all Corning Cable Systems Plug & Play™/Pretium EDGE® Systems Solutions.
 - 3) Improved attenuation and bandwidth options available.
 - 4) Bend-insensitive single-mode fibers available on request.
 - 5) Contact a Corning Cable Systems Customer Care Representative for additional information.

Pretium EDGE® Trunk Cable

50 µm multimode (OM3), MTP® Connector to MTP Connector, 24 F, with 33/33 inch legs, pulling grip one side, 70 ft

CORNING

Ordering Information

Part Number	G757524TPNDDU070F
Product Description	Pretium EDGE® Solutions Trunk Cable, 50 µm multimode (OM3), MTP® Connector to MTP Connector, 24 F, with 33/33 inch legs, pulling grip one side, 70 ft
Length	70 ft (-0 ft/+2 ft) (21.34 m (-0 m/+0.61 m))

Shipping Information

Units per Delivery	1/1
Reel Diameter	23.5 in
Reel Width	5 in



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Pretium EDGE® Trunk Cable

Bend-improved Single-mode (OS2), MTP® Connector to MTP Connector, 48 F, with 33/33 inch legs, pulling grip one side, 100 ft

CORNING

CS-349

The Pretium EDGE® MTP® Trunks provide the backbone of the Pretium EDGE Solution. With nonpinned MTPs on both ends of the cable, these trunks are designed to interface with the Pretium EDGE or Plug & Play™ modules. All trunks are shipped with strain-relief clips that allow for the tool-less installation in both Pretium EDGE and Plug & Play housings. These trunks conform to TIA-568 Type-B polarity.

Features and Benefits

High-density trunk cables

Allow tighter trunk cable bends for slack storage and routing

Low insertion loss performance

Allows for more connections in a link when deploying a TIA-942-compliant system

Universal wired components

Enable moves, adds and changes without polarity concerns; provide a simple migration path between 2-fiber and parallel optic applications

Factory-terminated solutions

Provide consistent quality, ensure system performance and reduce installation time



Standards

Approval and Listings NFPA 262, National Electrical Code® (NEC®), OFNP, CSA FT-6

Specifications

General Specifications	
Application	Data Center LAN/SAN
Cable Type	Indoor; ANSI/CEA S-83-596
Flame Rating	Plenum (OFNP)
Cable Assembly Type	Pretium EDGE® Trunk
Fiber Category	Bend-improved SM (OS2)

Pretium EDGE® Trunk Cable

Bend-improved Single-mode (OS2), MTP® Connector to MTP Connector, 48 F, with 33/33 inch legs, pulling grip one side, 100 ft

CORNING

Temperature Range

Operation	-10 °C to 60 °C (14 °F to 140 °F)
-----------	-----------------------------------

Design - Connector A

Connector Type	MTP® (non-pinned)
Ferrule	Composite

Optical Specifications - Connector A

Reflectance, Typical	< -55 dB
Insertion Loss, Max.	0.75 dB

Design - Connector B

Connector Type	MTP® (non-pinned)
Ferrule	Composite

Optical Specifications - Connector B

Reflectance, Typical	< -55 dB
Insertion Loss, Max.	0.75 dB

Cable Design

Fiber Count	48
Outer Jacket Color	Yellow
Polarity	Universal; TIA-568 Type-B
Strain-Relief Bracket Type	2

Pretium EDGE® Trunk Cable

Bend-Improved Single-mode (OS2), MTP® Connector to MTP Connector, 48 F, with 33/33 inch legs, pulling grip one side, 100 ft

CORNING

Mechanical Characteristics Cable

Nominal Outer Diameter	8.5 mm ± 0.3 mm (0.33 in)
Min. Bend Radius Installation	127.5 mm (5.02 in)
Min. Bend Radius Operation	42.5 mm (1.67 in)
Max. Tensile Strength for Installation	660 N
Weight	63 kg/km (42 lb/1000 ft)
Minimum Conduit Size with 18-in Elbow	3.0 in

Furcation - Connector A

Leg Length	838 mm (-0 mm/+76 mm) (33 in (-0 in/+3 in))
Leg Color	Yellow
Leg Diameter	2.0 mm
Furcation Type - A	Pretium EDGE® Size 2; 20 mm x 20 mm x 108.6 mm

Furcation - Connector B

Leg Length	838 mm (-0 mm/+76 mm) (33 in (-0 in/+3 in))
Leg Color	Yellow
Leg Diameter	2.0 mm
Furcation Type - B	Pretium EDGE® Size 2; 20 mm x 20 mm x 108.6 mm

Pulling Grip - Connector A

Pulling Grip - Connector A	Yes
Pulling Grip Outer Diameter	56 mm (2.2 in)
Min. Duct Size Diameter	89 mm (3.5 in)
Tensile Strength	440 N (100 lb)

Pulling Grip - Connector B

Pulling Grip - Connector B	No
----------------------------	----

Pretium EDGE® Trunk Cable

Bend-improved Single-mode (OS2), MTP® Connector to MTP Connector, 48 F, with 33/33 inch legs, pulling grip one side, 100 ft

CORNING

Chemical Characteristics

RoHS	Free of hazardous substances according to RoHS 2002/95/EG
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Fiber Specifications

Optical Characteristics (cabled)

Fiber Type	Single-Mode Ultra-Bendable Fiber
Fiber Core Diameter	8.2 µm
Fiber Category	OS2
Fiber Compliance	ITU-T G.652.D and ITU-T G.657.A1
Fiber Code	G
Wavelengths	1310 nm / 1383 nm / 1550 nm
Maximum Attenuation	0.4 dB/km / 0.4 dB/km / 0.3 dB/km
Serial 1 Gigabit Ethernet	5000 m / - / -
Serial 10 Gigabit Ethernet	10000 m / - / 40000 m
Induced Attenuation @ 10 mm Radius	0.5 dB (1 turn; 10 mm radius; 1550 nm)

* ITU-T G.652 D compliant.

* Meets 0.75 ns optical skew when used in all Corning Cable Systems Plug & Play™/Pretium EDGE® Systems Solutions.

- Notes:
- 1) Improved attenuation and bandwidth options available.
 - 2) Bend-insensitive single-mode fibers available on request.
 - 3) Contact a Corning Cable Systems Customer Care Representative for additional information.

Ordering Information

Part Number	G909048GPND0U100F
Product Description	Pretium EDGE® Solutions Trunk Cable, Bend-improved Single-mode (OS2), MTP® Connector to MTP Connector, 48 F, with 33/33 inch legs, pulling grip one side, 100 ft
Weight	2.9 kg (6.4 lb)
Length	100 ft (-0 ft/+2 ft) (30 m (-0 m/+0.61 m))

Pretium EDGE® Trunk Cable

Bend-improved Single-mode (OS2), MTP® Connector to MTP Connector, 48 F, with 33/33 inch legs, pulling grip one side, 100 ft



Shipping Information

Units per Delivery	1/1
Reel Diameter	23.5 in
Reel Width	5 in



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Pretium EDGE® Trunk Cable

Bend-improved Single-mode (OS2), MTP® Connector to MTP Connector, 24 F, with 33/33 inch legs, pulling grip one side, 80 ft

CORNING

CS-350

The Pretium EDGE® MTP® Trunks provide the backbone of the Pretium EDGE Solution. With nonpinned MTPs on both ends of the cable, these trunks are designed to interface with the Pretium EDGE or Plug & Play™ modules. All trunks are shipped with strain-relief clips that allow for the tool-less installation in both Pretium EDGE and Plug & Play housings. These trunks conform to TIA-568 Type-B polarity.

Features and Benefits

High-density trunk cables

Allow tighter trunk cable bends for slack storage and routing

Low insertion loss performance

Allows for more connections in a link when deploying a TIA-942-compliant system

Universal wired components

Enable moves, adds and changes without polarity concerns; provide a simple migration path between 2-fiber and parallel optic applications

Factory-terminated solutions

Provide consistent quality, ensure system performance and reduce installation time



Standards

Approval and Listings

NFPA 262, National Electrical Code® (NEC®), OFNP, CSA FT-6

Specifications

General Specifications

Application	Data Center LAN/SAN
Cable Type	Indoor; ANSI/ICEA S-83-596
Flame Rating	Plenum (OFNP)
Cable Assembly Type	Pretium EDGE® Trunk
Fiber Category	Bend-improved SM (OS2)

Pretium EDGE® Trunk Cable

Bend-improved Single-mode (OS2), MTP® Connector to MTP Connector, 24 F, with 33/33 inch legs, pulling grip one side, 80 ft

CORNING

Temperature Range

Operation	-10 °C to 60 °C (14 °F to 140 °F)
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Design - Connector A

Connector Type	MTP® (non-pinned)
Ferrule	Composite

Optical Specifications - Connector A

Reflectance, Typical	< -55 dB
Insertion Loss, Max.	0.75 dB

Design - Connector B

Connector Type	MTP® (non-pinned)
Ferrule	Composite

Optical Specifications - Connector B

Reflectance, Typical	< -55 dB
Insertion Loss, Max.	0.75 dB

Cable Design

Fiber Count	24
Outer Jacket Color	Yellow
Polarity	Universal; TIA-568 Type-B
Strain-Relief Bracket Type	1

Pretium EDGE® Trunk Cable

Bend-improved Single-mode (OS2), MTP® Connector to MTP Connector, 24 F, with 33/33 inch legs, pulling grip one side, 80 ft

CORNING

Mechanical Characteristics Cable

Nominal Outer Diameter	7.7 mm ± 0.3 mm (0.30 in)
Min. Bend Radius Installation	115.5 mm (4.55 in)
Min. Bend Radius Operation	38.5 mm (1.52 in)
Max. Tensile Strength for Installation	660 N
Weight	50 kg/km (34 lb/1000 ft)
Minimum Conduit Size with 18-in Elbow	2.5 in

Furcation - Connector A

Leg Length	838 mm (-0 mm/+76 mm) (33 in (-0 in/+3 in))
Leg Diameter	2.0 mm
Leg Color	Yellow
Furcation Type - A	Pretium EDGE® Size 1; 14.7 mm x 14.7 mm x 108.6 mm

Furcation - Connector B

Leg Length	838 mm (-0 mm/+76 mm) (33 in (-0 in/+3 in))
Leg Diameter	2.0 mm
Leg Color	Yellow
Furcation Type - B	Pretium EDGE® Size 1; 14.7 mm x 14.7 mm x 108.6 mm

Pulling Grip - Connector A

Pulling Grip - Connector A	Yes
Pulling Grip Outer Diameter	41 mm (1.6 in)
Min. Duct Size Diameter	64 mm (2.5 in)
Tensile Strength	440 N (100 lb)

Pulling Grip - Connector B

Pulling Grip - Connector B	No
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Pretium EDGE® Trunk Cable

Bend-improved Single-mode (OS2), MTP® Connector to MTP Connector, 24 F, with 33/33 inch legs, pulling grip one side, 80 ft

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Chemical Characteristics

RoHS	Free of hazardous substances according to RoHS 2002/95/EG
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Fiber Specifications

Optical Characteristics (cabled)

Fiber Type	Single-Mode Ultra-Bendable Fiber
Fiber Core Diameter	8.2 µm
Fiber Category	OS2
Fiber Compliance	ITU-T G.652.D and ITU-T G.657.A1
Fiber Code	G
Wavelengths	1310 nm / 1383 nm / 1550 nm
Maximum Attenuation	0.4 dB/km / 0.4 dB/km / 0.3 dB/km
Serial 1 Gigabit Ethernet	5000 m / - / -
Serial 10 Gigabit Ethernet	10000 m / - / 40000 m
Induced Attenuation @ 10 mm Radius	0.5 dB (1 turn; 10 mm radius; 1550 nm)

* ITU-T G.652 D compliant

* Meets 0.75 ns optical skew when used in all Corning Cable Systems Plug & Play™/Pretium EDGE® Systems Solutions.

- Notes: 1) Improved attenuation and bandwidth options available.
2) Bend-insensitive single-mode fibers available on request.
3) Contact a Corning Cable Systems Customer Care Representative for additional information.

Ordering Information

Part Number	G909024GPND0U080F
Product Description	Pretium EDGE® Solutions Trunk Cable, Bend-improved Single-mode (OS2), MTP® Connector to MTP Connector, 24 F, with 33/33 inch legs, pulling grip one side, 80 ft
Length	80 ft (-0 ft/+2 ft) (24.38 m (-0 m/+0.61 m))

Shipping Information

Units per Delivery	1/1
Reel Diameter	23.5 in
Reel Width	5 in

Pretium EDGE® Trunk Cable

Bend-improved Single-mode (OS2), MTP® Connector to MTP Connector, 24 F, with 33/33 inch legs, pulling grip one side, 80 ft

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Notes



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