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ADMINISTRATION
STATE PROCUREMENT OFFICE
STATE OF HAWAII

Hawaiian Telcom

May 28, 2014

Procurement Officer
State of Hawaii
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 8.3um Corning Outdoor Loose Tube 72 Single Mode Fiber
to the Cabling and Support Structure Pricelist

Dear Procurement Officer:

Hawaiian Telcom, Inc. would like to propose a change to add 8.3um Corning Outdoor Loose Tube 72 Single Mode Fiber to the existing pricelist items on contract CF-06-007-SW. The additions are on the Cabling and Support Structure Pricelist. Please note that all other items on the current Cabling and Support Structure Pricelist will remain on the pricelist.

The addition is as follows:

CS-339 Fiber Optic Cables and Innerduct
8.3um Corning Outdoor Loose Tube 72 Fiber, SM, foot

The addition of the 72 Single Mode Fiber will support interconnecting networks to ensure enough capacity for bandwidth.

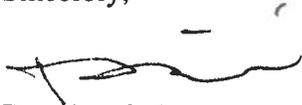
Enclosed are one original and one copy of the Cabling Support Structure Pricing Addendum and Reference Pages.

Always on.SM

PO Box 2200, Honolulu, HI 96841 hawaiiantel.com

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

Sincerely,

A handwritten signature in black ink, appearing to read 'Brandon Onishi', with a horizontal line above it.

Brandon Onishi
Senior Manager, Government Sales

cc: C. Lai, ICSD

cc: S. Chun, Hawaiian Telcom, Inc.

Attachments Cabling Support Structure Pricing Addendum
CS Reference Pages

CABLING SUPPORT STRUCTURE PRICING ADDENDUM

<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>
Fiber Optic Cables and Innerduct 8.3um Corning Outdoor Loose Tube 72 Fiber, SM, foot	CS-339	072EU4-T4701D20	9.66		4.27		13.93		1800		\$25,074.00

Sub-Total: Cabling and support Structures

\$25,074.00

<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 Others	GET	0.04712		\$13.93	\$1,181.49

Sub-Total: Regulatory Fees/Charges and Taxes

\$26,255.49

Total: Cabling and Support Structures-Addendum

\$26,255.49

CORNING | Optical Communications

ALTOS® Loose Tube, Gel-Free, All-Dielectric Cable with FastAccess® Technology, 72 F, Single-mode (OS2)



Part Number: 072EU4-T4701D20

Corning ALTOS® cable with FastAccess® technology is an all-dielectric gel-free cable designed for outdoor and limited indoor use for campus backbones in lashed aerial and duct installations. The innovative FastAccess technology feature combined with the all-dielectric gel-free loose tube design simplifies removal of the cable jacket reducing cable end access time by at least 50 percent. Equally important is the overall reduction in risk of inadvertent fiber damage and risk to installers from sharp cable access tools. The cable is fully waterblocked using craft-friendly, water-swellable materials, which means no clean up is required. The flexible buffer tubes are easy to route in closures, and the SZ-stranded, loose tube design isolates fibers from installation and environmental rigors more

Part Number	072EU4-T4701D20
Product Description	ALTOS® Loose Tube, Gel-Free, All-Dielectric Cable with FastAccess® Technology, 72 F, Single-mode (OS2)
Fiber Category	Single-mode (OS2)
Fiber Count	72
Weight	73 kg/km (49 lb/1000 ft)

Features And Benefits

- Contains FastAccess® technology**
 Innovative cable jacket feature reduces cable end access time by at least 50 percent and reduces overall risk of inadvertent fiber damage as well as risk to installers from sharp cable access tools
- Medium-density polyethylene jacket**
 Rugged, durable and easy to strip (while providing superior protection against UV radiation, fungus, abrasion and other environmental factors)
- Fully waterblocked loose tube all-dielectric gel-free design**
 Simple access and no clean up
- Industry-standard performance**
 Meets the requirements of Telcordia GR-20, Issue 3 and ICEA S-87-640
- Available in 62.5 µm, 50 µm, single-mode and hybrid versions**
 Ready for any application including Gigabit Ethernet and 10 Gigabit Ethernet

General Specifications

Environment	Outdoor
Application	Aerial, Duct
Cable Type	Loose Tube
Product Type	Dielectric

Fiber Category Single-mode (OS2)

Standards

Common Installations Outdoor lashed aerial and duct; indoor when installed according to National Electrical Code® (NEC®) Article 770

Design and Test Criteria ANSI/ICEA S-87-640

Cable Design

Central Element Dielectric

Fiber Count 72

Fiber Coloring Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Rose, Aqua

Fibers per Tube 12

Number of Tube Positions 6

Number of Active Tubes 6

Buffer Tube Color Coding Blue, Orange, Green, Brown, Slate, White

Buffer Tube Diameter 2.5 mm (0.1 in)

Number of Filling Elements 0

Tape Water-swellaible

Number of Ripcords 1

Outer Jacket Material Polyethylene (PE)

Outer Jacket Color Black

Maximum Fibers per Tube 12

Temperature Range

Storage -40 °C to 70 °C (-40 °F to 158 °F)

Installation -30 °C to 70 °C (-22 °F to 158 °F)

Operation -40 °C to 70 °C (-40 °F to 158 °F)

Mechanical Characteristics Cable

Max. Tensile Strength, Short-Term 2700 N (600 lbf)

Max. Tensile Strength, Long-Term 890 N (200 lbf)

Weight 73 kg/km (49 lb/1000 ft)

Nominal Outer Diameter 10.5 mm (0.41 in)

Min. Bend Radius Installation 158 mm (6.2 in)

Min. Bend Radius Operation 105 mm (4.1 in)

Chemical Characteristics

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

Optical Characteristics (cabled)

Fiber Name	SMF-28e+® fiber
Fiber Category	G.652.D
Fiber Code	E
Performance Option Code	01
Wavelengths	1310 nm / 1383 nm / 1550 nm
Maximum Attenuation	0.4 dB/km / 0.4 dB/km / 0.3 dB/km
Typical attenuation	0.33 dB/km / 0.33 dB/km / 0.19 dB/km

Typical attenuation values match the attenuation values listed in the optical fiber specifications. See www.corning.com/opticalfiber for Corning optical fiber specifications. Better attenuation performance options are available for some fiber and cable types. Contact Customer Care for additional fiber options.

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