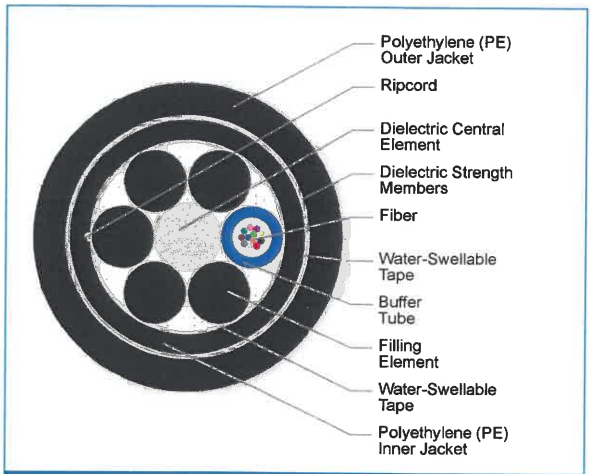
ALTOS® Loose Tube, Gel-Free, Double-Jacket Cable

12 F, Single-mode (OS2)

CORNING

Corning ALTOS® gel-free double-jacket, dielectric cables are designed for duct and aerial (lashed) installation. The double-jacket construction adds a layer of protection for harsh environments. The loose tube cable design provides stable performance over a wide temperature range and is compatible with any telecommunications-grade optical fiber.

Part Number: 012EUE-T4101D20



Cross Section of Part Number: 012EUE-T4101D20

Features and Benefits

Two jacket layers
Provides extra protection in harsh environments

Flexible, craft-friendly buffer tubes
Facilitate easy routing in closures

Gel-free waterblocking technology
Craft-friendly cable preparation

Polyethylene jacket
Rugged, durable and easy to strip (while providing superior protection against UV radiation, fungus, abrasion and other environmental factors)

Exceeds the RDUP requirements for mid-span buffer tube slack storage
Provides flexibility for mid-span access applications

Standards

Approvals and Listings	**RDUP (RUS) Listed** Material acceptability
Design and Test Criteria	ANSI/ICEA S-87-640

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Specifications

General Specifications	
Environment	Outdoor
Application	Aerial, Duct
Cable Type	Loose Tube
Product Type	Dielectric
Fiber Category	Single-mode (OS2)

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)

Cable Design	
Central Element	Dielectric
Fiber Count	12
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	1
Buffer Tube Color Coding	Blue
Buffer Tube Diameter	2.5 mm (0.1 in)
Number of Filling Elements	5
Tape	Water-Swellable
Inner Jacket Material	Polyethylene (PE)
Tape, Layer 2	Water-Swellable
Number of Ripcords	1
Tensile Strength Elements and/or Armoring - Layer 1	Dielectric strength members
Outer Jacket Material	Polyethylene (PE)
Outer Jacket Color	Black

Mechanical Characteristics Cable	
Max. Tensile Strength, Short-Term	2700 N (600 lbf)
Max. Tensile Strength, Long-Term	890 N (200 lbf)

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Mechanical Characteristics Cable	
Weight	107 kg/km (72 lb/1000 ft)
Nominal Outer Diameter	12.5 mm (0.49 in)
Min. Bend Radius Installation	188 mm (7.4 in)
Min. Bend Radius Operation	125 mm (4.9 in)

Chemical Characteristics	
RoHS	Free of hazardous substances according to RoHS 2011/65/EU

Fiber Specifications

Optical Characteristics (cabled)	
Fiber Name	Single-mode (OS2)
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

Ordering Information

Part Number	012EUE-T4101D20
Product Description	ALTOS® Loose Tube, Gel-Free, Double-Jacket Cable, 12 F, Single-mode (OS2)
EAN Code	4056418182339

RoHS COMPLIANT

Corning Optical Communications LLC • PO Box 489 • Hickory, NC 28603-0489 USA
800-743-2675 • FAX: 828-325-5060 • International: +1-828-901-5000 • www.corning.com/opcomm

Splice Closure Fiber (SCF), preloaded

144 single-fiber splice capacity, 6-in diameter, 28-in dome length, with splice trays

CORNING

Closure Options

UCAO-05-24
• Includes closure housing, strain-relief and sealing hardware for two cables plus two UCAO-ST-02 splice trays for a capacity of 24 single-fiber splices, 12 per tray
• Small, compact, easy re-enterability, in-line design with four 28 mm ports, two per side
• Suitable for aerial, pole/wall and buried applications
• Expandability: Maximum splicing capacity of 60 single-fiber splices

SCF-4C18-01-36
• Includes 4 x 18-in canister closure housing, strain-relief and sealing hardware for two main cables, one drop and three SCF-ST-099 splice trays for a capacity of 36 single -fiber splices
• Expandability: Maximum splicing capacity of 72 single-fiber splices, three more splice trays
• Port count: Two express and three drop ports
• Suitable for aerial as well as direct-buried applications

SCF-6C22-01-72
• Includes 6 x 22-in canister closure housing, strain-relief and sealing hardware for two main cables, one drop and six SCF-ST-099 splice trays for a capacity of 72 single-fiber splices
• Expandability: Maximum splicing capacity of 144 single -fiber splices, six more splice trays • Port count: Two express and four drop ports
• Suitable for aerial as well as direct-buried applications

SCF-6C28-01-144
• Includes 6 x 28-in canister closure housing, strain-relief and sealing hardware for two main cables, one drop and six SCF-ST-112 splice trays for a capacity of 144 single-fiber splices
• Expandability: Maximum splicing capacity of 288 single-fiber splices, six more splice trays
• Port count: Two express and four drop ports
• Suitable for aerial as well as direct-buried applications

Part Number: SCF-6C28-01-144

Features and Benefits

One part number solution
For most common fiber counts

All-inclusive kit
Trays, seals and hardware in every kit

Splice Closure Fiber (SCF), preloaded

144 single-fiber splice capacity, 6-in diameter, 28-in dome length, with splice trays

CORNING

Features and Benefits

Easy component additions
Future expandability

Specifications

General Specifications	
Application	Customer premises environments, Carrier Networks, CATV environments
Mounting Type	Pole-mount, Wall-Mountable
Product Type	FOH Closures

Design - Hardware	
Fiber Management Configuration	Full slack storage basket - tray stacker
Ground Feed Through Cable Entries	1
Number of Feeder Ports	2 2 / 6 ports: 2 feeder ports and 4 drop ports
Number of Ports	6
SCF Type	6-inch canister, 28 in LID
Splicing Capacity	144
Splice Tray Stacker Configuration	0.2-in tray height (single fiber)

Mechanical Characteristics	
Dimensions: Diameter and Length	16.8 cm x 71.1 cm6.6 in x 28 in
Outside Diameter with Clamp	7.8 in (20 cm)

Ordering Information

Part Number	SCF-6C28-01-144
Product Description	Splice Closure Fiber (SCF), preloaded, 144 single-fiber splice capacity, 6-in diameter, 28-in dome length, with splice trays

Splice Closure Fiber (SCF), preloaded

144 single-fiber splice capacity, 6-in diameter, 28-in dome length, with splice trays

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Shipping Information

Units per Delivery	1/1

Corning Cable Systems LLC • PO Box 489 • Hickory, NC 28603-0489 USA
800-743-2675 • FAX: 828-325-5060 • International: +1-828-901-5000 • www.corning.com/cablesystems

ORIGINAL GATOR PATCH

The ultimate fiber distribution terminal

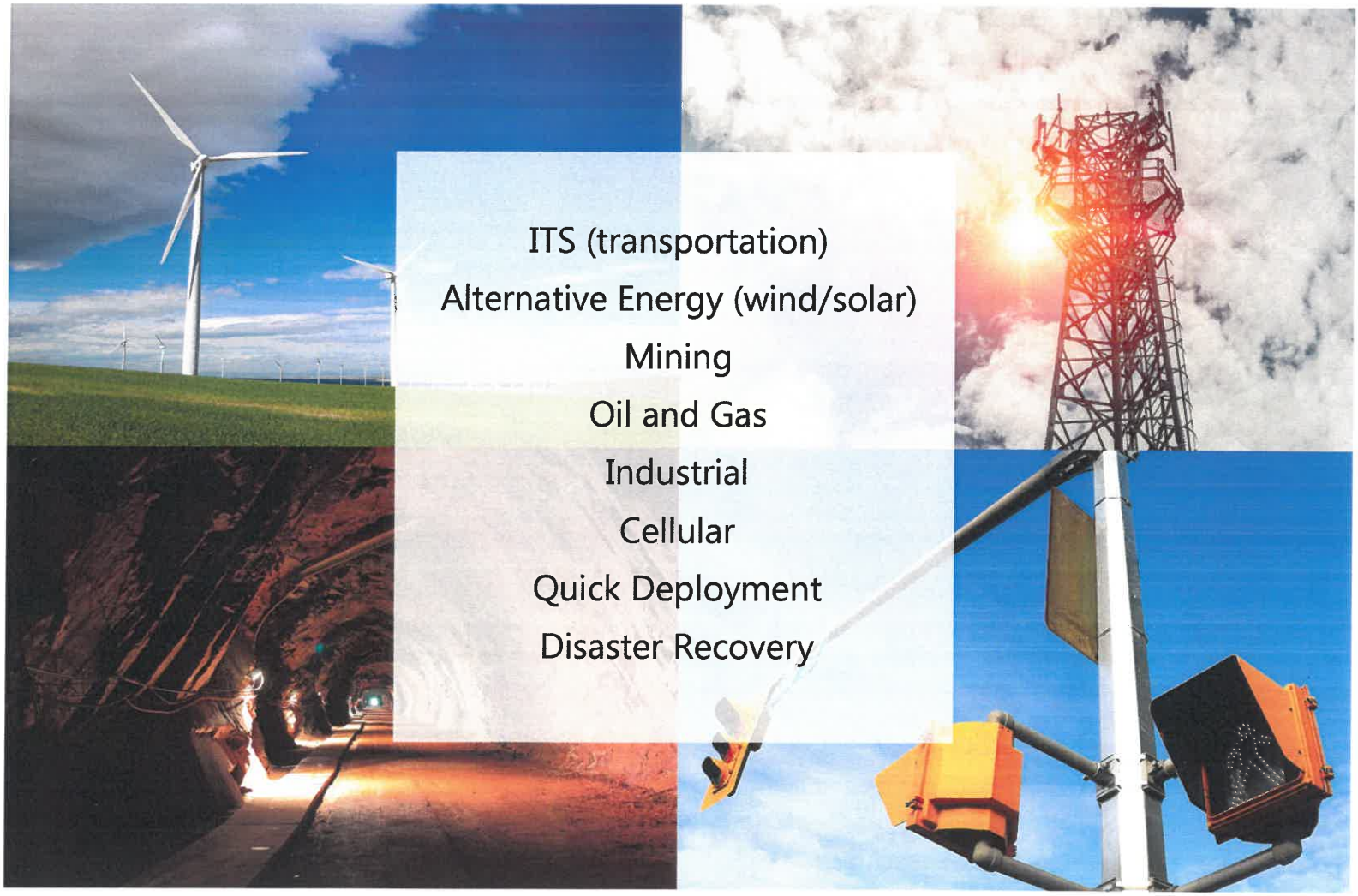
The Gator Patch is a unique, rugged, factory terminated fiber distribution solution. Easy to install in the field, this patented product has been used extensively all across the globe in a wide range of applications such as ITS (transportation), industrial, power utility, etc. With such a wide array of fiber and connector options, the Gator Patch is THE product to use for pre-terminated "plug & play" applications. The Gator Patch is manufactured and tested to the highest industry standards right here in North America in our state of the art manufacturing facility.

KEY FEATURES

- installs quickly in outdoor enclosures, pedestals, and equipment racks at zero RU
- factory terminated and 100% tested
- available in many cable and connector configurations
- available as a pigtail for splicing or pre-terminated for plug & play applications
- slim body design is potted for additional ruggedness
- custom designs available upon request
- -40°C to +70°C operating temperature
- manufactured in North America for quick turn around
- up to 24 fibers in a single Gator Patch

The Gator Patch found it's niche in the ITS (transportation) industry when contractors were looking for a solution that would give them a rugged, pre-terminated patch panel that would easily fit inside an awkward traffic control cabinet. They needed this patch panel to come with a blunt (pigtail) custom length tail at the other end that could be run to the underground trunk cable for splicing. Since that time, the list of potential applications for the Gator Patch has grown significantly. Below are some examples but, the list continues to grow.

APPLICATIONS



ORDERING INFORMATION & TECHNICAL SPECIFICATIONS

	1	2	3	4	5	6	7	8	9		10		11
G	3	2	0	G	0	0	6	F	R	B	46	-	0

1 Number of Steps

2	2 Step
3	3 Step
4	4 Step
6	6 Step
8	4 Step (wide body)

2 Fiber Type

1	62.5/125 (OM1)
2	SM (OS2)
3	50/125 (OM2)
9	50/125 (OM3)
A	50/125 (OM4)

3 Performance

0	Standard
L	Low Loss

4 Gator Connector

J	SC
G	ST
L	FC
U	LC Duplex
W	LC Quad
X	SCapc

5 Tail Connector

C	1 MTP (m) Adapter
D	2 MTP(m) Adapter
M	12F MTP(f) Tail
N	12F MTP(m) Tail
U	6F MTP(f) Tail
V	6F MTP(m) Tail
J	24F MTP(f) Tail
K	24F MTP(m) Tail
A	Optitip (pinned) Tail
B	Optitip (unpinned) Tail
T	Optitip Adapter
1	12F Industrial MTP(m)
2	12F Industrial MTP(f)
3	12F MTP(f) Super Low Loss
4	12F MTP(m) Super Low Loss
0	Pigtail (no connector)

6, 7 Fiber Count

02	2 Fiber
04	4 Fiber
06	6 Fiber
08	8 Fiber
12	12 Fiber
24	24 Fiber

8 Cable Types

B	Breakout
F	Loose-tube (in/outdoor)
L	Loose-tube (outdoor only)
Q	3mm Mini-Dist (indoor)
R	Flat Ribbon (indoor)
S	Flat Drop (outdoor)
U	Flat Drop (in/outdoor)
0	NA (no cable)

9 Cable Rating

R	Riser (FT4)
P	Plenum (FT6)
A	Armored (not rated)
N	Non-Armored (not rated)
L	LSZH
0	NA (no cable)

10 Length in meters

46 METERS / 150'

11 Pull-Kits

0	None
1	1 Installed
2	2 Installed

Notes:

1. Low loss Gator connectors available on OS2, OM3, OM4 fiber only.
2. Super low loss MTP connectors available on OM4 fiber only.
3. Minimum length of cable tails is 2 meters.

Please contact customer service for additional information.
Custom configurations available upon request.
All specifications are subject to change

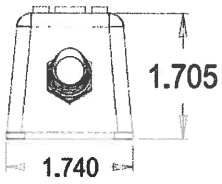
TECHNICAL SPECIFICATIONS

Technical Specifications - GatorPatch body connectors		
Connector Performance	**Multimode (OM1, OM2, OM3, OM4)**	**Single mode (OS2)**
Test wavelength	850 and 1300nm	1550nm
Insertion loss (per connector)	0.2dB, 0.15dB(low loss) typ.	0.2dB, 0.15dB(low loss) typical
	0.4dB, 0.3dB(low loss) max.	0.4dB, 0.3dB(low loss) max.
Reflectance	< -20dB	< -55dB
Durability	500 matings, <0.2dB change	500 matings, <0.2dB change
Tensile strength - straight pull (cable tail)	50lbs (220N), <0.2dB change	50lbs (220N), <0.2dB change
Temperature range	-40 to +70C	-40 to +70C
Ferrule polish	PC	upc, apc
Connector options	ST, SC, LC, FC	ST, SC, LC, SCapc, Lcapc, FC
Technical Specifications - MTP adapter or tail (when applicable)		
Insertion loss (MTP Multi fiber Connnector)	0.2dB typ.	0.25dB, 0.2dB(low loss) typ.
	0.5dB max, 0.35dB elite max. 0.2dB super low loss elite OM4	0.5dB, 0.35dB elite max.
Insertion Loss (Optitip multifiber Connector & Industrial MPO)	0.3dB typical	0.3dB typical
	0.75dB max	0.75dB
Durability	500 matings, <0.2dB change	500 matings, <0.2dB change
Temperature range	-40 to +70C	-40 to +70C

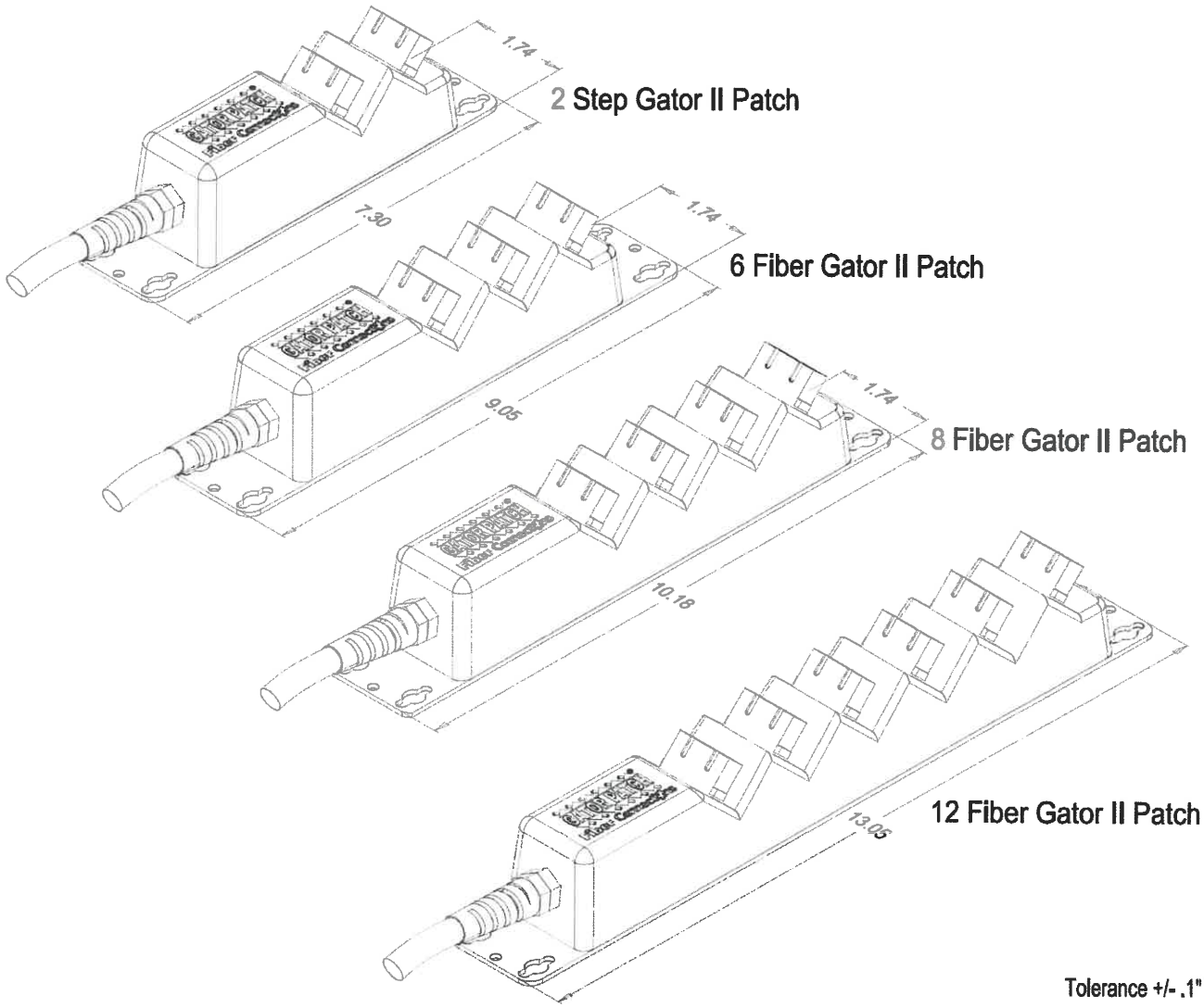
Cable Performance	Multimode				Single-mode
Fiber Type	62.5/125µm	50/125µm (850/1300nm)			Single-mode (1310/1550nm)
ISO/IEC name	OM1	OM2	OM3	OM4	OS2
Max. Atten. (dB/km)	3.4/1.0	3.0/1.0	3.0/1.0	3.0/1.0	0.4/0.3
Min. OFL - Bandwidth (MHz•km)	200/500	700/500	1500/500	1500/500	- / -

SCHEMATICS

2,3,4,6 Step (slim) Gator Patch



1	4 Step version added to drawing	26 Feb 08	WS



Tolerance +/- .1"

SCHEMATICS

4 Step (wide) Gator Patch