

catalog | **Optical Cables**  
**Terra | GelKore**



## Technical Data Sheet

GelKore Loose Tube Optical Cables

Standard buffer tube with 2-288f

**Single Jacket / All-Dielectric**

### Application

Lightweight outdoor fiber optic cable designed for aerial (lashed) and duct installations.

### Benefits

- Fiber Count up to 288f
- Suitable for aerial and duct applications
- MDPE jacket for low friction installation
- Lightweight with small diameter
- Excellent handling characteristics
- Low installation costs

### Fiber types

- G.651 multi-mode fiber
- G.652 single-mode fiber
- G.655 NZDS fiber for DWDM applications

### Full range of protections

- Water blocked

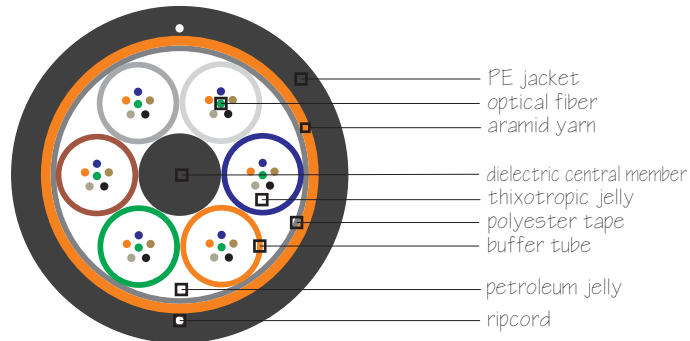
### Full range of applications

- Aerial
- Duct

### Optional protections

- HDPE jacket
- Rodent resistant
- Dual Jacket / all-dielectric
- Single jacket / single armor
- Dual jacket / single armor
- Dual jacket / dual armor
- Triple jacket / single armor

### Cable cut-away



### Typical parameters

Number of fibers	Up to 288
Diameter	12.3 mm (0.48 in) to 21.5 mm (0.85 in)
Cable weight	109 kg/km (73 lbs/kft) to 300 kg/km (202 lbs/kft)
Max. bend radius	20 x cable O.D.
Max. working tension	2700 N (600 lbf)
Operating temperature range	-40 °C / 70 °C (-40 °F / 158 °F)

Above figures are nominal values; actual production dimensions and weights may deviate slightly from the indicated figures above

Specifications are subject to change without prior notice. 4SProducts cables are designed and tested per IEC specifications.



### Qualifications & approvals

REA PE-90  
Bellcore Standards  
ITU Standards  
TIA/EIA Standards

[www.4SProducts.com](http://www.4SProducts.com)

1st ISSUE

4621 Ponce de Leon Boulevard  
Coral Gables, FL 33146, USA  
[1] 305.666.7474  
[1] 305.666.7272 fax  
cable@4SProducts.com e-mail

## Technical Data Sheet

GelKore Loose Tube Optical Cables

Standard buffer tube with 2-288f

**Single Jacket / All-Dielectric**

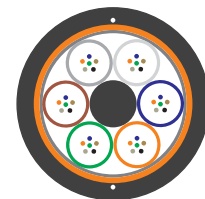
Cable Properties	Diameter	Weight
002 - 036f	12.3 mm (0.48 in)	109 kg/km (073 lbs/kft)
037 - 060f	12.3 mm (0.48 in)	109 kg/km (073 lbs/kft)
061 - 072f	12.5 mm (0.49 in)	113 kg/km (076 lbs/kft)
073 - 096f	14.3 mm (0.56 in)	146 kg/km (098 lbs/kft)
097 - 120f	16.2 mm (0.64 in)	184 kg/km (124 lbs/kft)
121 - 192f	17.8 mm (0.70 in)	202 kg/km (136 lbs/kft)
193 - 216f	18.5 mm (0.73 in)	223 kg/km (150 lbs/kft)
217 - 240f	19.4 mm (0.76 in)	243 kg/km (163 lbs/kft)
241 - 288f	21.5 mm (0.85 in)	300 kg/km (202 lbs/kft)

Mechanical Performance	Test Procedure	Specification
Low & high temperature cable	EIA/TIA-455-37A FOTP-37	20 x cable O.D. @ -30 °C and 60 °C
Impact resistance	EIA/TIA-455-25A FOTP-25	25 impact cycles
Compressive strength	EIA/TIA-455-41A FOTP-41	220 N/cm (124 lbs/in.)
Cable twist	EIA/TIA-455-85 FOTP-85	2 meter length ± 180°
Cable cyclic flexing	EIA/TIA-455-104 FOTP-104	20 x cable O.D. 25 cycles
Max. bend radius	EIA/TIA-455-37A FOTP-37	Installation Service 20 x cable O.D. 10 x cable O.D.
Max. tensile load	EIA/TIA-455-33 FOTP-33	Installation Service 2700 N (600 lbf) 890 N (200 lbf)
Gopher resistance		index rating <3

Environmental Performance	Test Procedure	Specification
Temperature	EIA/TIA-455-3A FOTP-3	Operation -40 to +70 °C (-40 to +158 °F) Installation -30 to +60 °C (-22 to +140 °F) Storage/Shipping -40 to +75 °C (-40 to +168 °F)
Cable aging	EIA/TIA-455-37 FOTP-37	168 hours @ 85 °C
Cable Freezing	EIA/TIA-455-98 FOTP-98	Frozen in ice
Water penetration	EIA/TIA-455-82B FOTP-82	1 meter for 24 hours
Compound drip temperature	EIA/TIA-455-81B FOTP-81	75 °C
Color coding permanence	Telcordia GR-20	Colors stable after aging



Specifications are subject to change without notice. The data given is subject to normal manufacturing tolerances. 4SProducts Loose Tube Optical Cables are tested in accordance with the requirements of Bellcore GR-20. Performance specifications are measured per EIA Fiber Optic Test Procedures.



## Technical Data Sheet

GelKore Loose Tube Optical Cables

Standard buffer tube with 2-288f

**Dual Jacket / All-Dielectric**

### Application

Dual jacketed outdoor fiber optic cable designed for direct burial, duct and/or lashed aerial installations.

### Benefits

- Fiber Count up to 288f
- Suitable for aerial, duct and direct buried applications
- MDPE jacket for low friction installation
- Excellent handling characteristics
- Low installation costs
- Does not require grounding

### Fiber types

- G.651 multi-mode fiber
- G.652 single-mode fiber
- G.655 NZDS fiber for DWDM applications

### Full range of protections

- Water blocked

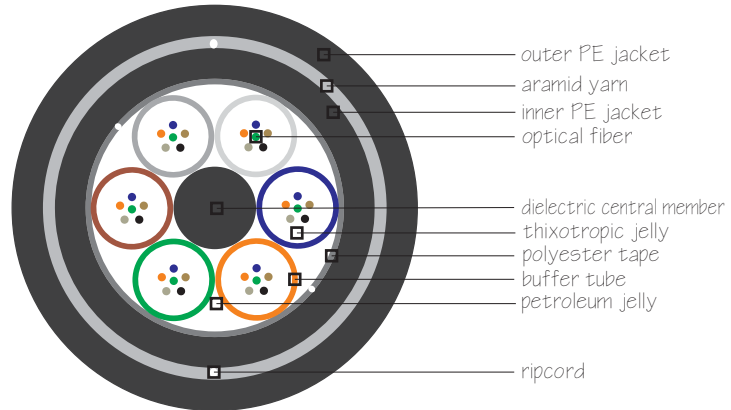
### Full range of applications

- Aerial
- Duct
- Direct buried

### Optional protections

- HDPE jacket
- All dielectric
- Single jacket / single armor
- Dual jacket / single armor
- Dual jacket / dual armor
- Triple jacket / dual armor

### Cable cut-away



### Typical parameters

Number of fibers	Up to 288
Diameter	13.5 mm (0.53 in) to 22.8 mm (0.90 in)
Cable weight	136 kg/km (091 lbs/kft) to 391 kg/km (262 lbs/kft)
Max. bend radius	20 x cable O.D.
Max. working tension	2700 N (600 lbf)
Operating temperature range	-40 °C / 70 °C (-40 °F / 158 °F)

Above figures are nominal values; actual production dimensions and weights may deviate slightly from the indicated figures above



### Qualifications & approvals

REA PE-90  
Bellcore Standards  
ITU Standards  
TIA/EIA Standards

[www.4SProducts.com](http://www.4SProducts.com)

1st ISSUE

4621 Ponce de Leon Boulevard  
Coral Gables, FL 33146, USA  
[1] 305.666.7474  
[1] 305.666.7272 fax  
cable@4SProducts.com e-mail

## Technical Data Sheet

GelKore Loose Tube Optical Cables

Standard buffer tube with 2-288f

**Dual Jacket / All-Dielectric**

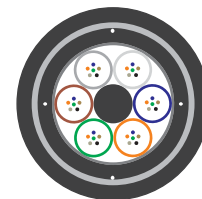
Cable Properties	Diameter	Weight
002 - 036f	13.5 mm (0.53 in)	136 kg/km (091 lbs/kft)
037 - 060f	13.5 mm (0.53 in)	136 kg/km (091 lbs/kft)
061 - 072f	13.7 mm (0.54 in)	161 kg/km (108 lbs/kft)
073 - 096f	15.7 mm (0.62 in)	202 kg/km (135 lbs/kft)
097 - 120f	17.6 mm (0.69 in)	250 kg/km (168 lbs/kft)
121 - 192f	18.6 mm (0.73 in)	273 kg/km (183 lbs/kft)
193 - 216f	19.4 mm (0.76 in)	301 kg/km (202 lbs/kft)
217 - 240f	20.8 mm (0.82 in)	331 kg/km (222 lbs/kft)
241 - 288f	22.8 mm (0.90 in)	391 kg/km (262 lbs/kft)

Mechanical Performance	Test Procedure	Specification
Low & high temperature cable	EIA/TIA-455-37A FOTP-37	20 x cable O.D. @ -30 °C and 60 °C
Impact resistance	EIA/TIA-455-25A FOTP-25	25 impact cycles
Compressive strength	EIA/TIA-455-41A FOTP-41	220 N/cm (124 lbs/in.)
Cable twist	EIA/TIA-455-85 FOTP-85	2 meter length ± 180°
Cable cyclic flexing	EIA/TIA-455-104 FOTP-104	20 x cable O.D. 25 cycles
Max. bend radius	EIA/TIA-455-37A FOTP-37	Installation Service 20 x cable O.D. 10 x cable O.D.
Max. tensile load	EIA/TIA-455-33 FOTP-33	Installation Service 2700 N (600 lbf) 890 N (200 lbf)
Gopher resistance		index rating <3

Environmental Performance	Test Procedure	Specification
Temperature	EIA/TIA-455-3A FOTP-3	Operation -40 to +70 °C (-40 to +158 °F) Installation -30 to +60 °C (-22 to +140 °F) Storage/Shipping -40 to +75 °C (-40 to +168 °F)
Cable aging	EIA/TIA-455-37 FOTP-37	168 hours @ 85 °C
Cable Freezing	EIA/TIA-455-98 FOTP-98	Frozen in ice
Water penetration	EIA/TIA-455-82B FOTP-82	1 meter for 24 hours
Compound drip temperature	EIA/TIA-455-81B FOTP-81	75 °C
Color coding permanence	Telcordia GR-20	Colors stable after aging



Specifications are subject to change without notice. The data given is subject to normal manufacturing tolerances. 4SProducts Loose Tube Optical Cables are tested in accordance with the requirements of Bellcore GR-20. Performance specifications are measured per EIA Fiber Optic Test Procedures.



## Technical Data Sheet

GelKore Loose Tube Optical Cables

Standard buffer tube with 2-288f

**Single Jacket / Single Armor**

### Application

Outdoor fiber optic cable designed for direct burial, duct and/or lashed aerial installations.

### Benefits

- Fiber Count up to 288f
- Suitable for aerial, duct and direct buried applications
- MDPE jacket for low friction installation
- Corrugated steel armor for added mechanical protection
- Lightweight with reduced diameter
- Excellent handling characteristics
- Low installation costs

### Fiber types

- G.651 multi-mode fiber
- G.652 single-mode fiber
- G.655 NZDS fiber for DWDM applications

### Full range of protections

- Water blocked
- Rodent resistant

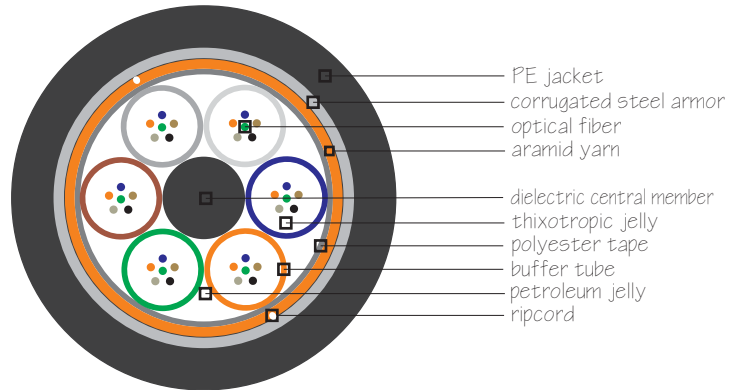
### Full range of applications

- Aerial
- Duct
- Direct buried

### Optional protections

- HDPE jacket
- All dielectric
- Dual jacket / single armor
- Dual jacket / dual armor
- Triple jacket / dual armor

### Cable cut-away



### Typical parameters

Number of fibers	Up to 288
Diameter	14.0 mm (0.55 in) to 22.9 mm (0.90 in)
Cable weight	180 kg/km (121 lbs/kft) to 413 kg/km (278 lbs/kft)
Max. bend radius	20 x cable O.D.
Max. working tension	2700 N (600 lbf)
Operating temperature range	-40 °C / 70 °C (-40 °F / 158 °F)

Above figures are nominal values; actual production dimensions and weights may deviate slightly from the indicated figures above



### Qualifications & approvals

REA PE-90  
Bellcore Standards  
ITU Standards  
TIA/EIA Standards

[www.4SProducts.com](http://www.4SProducts.com)

1st ISSUE

4621 Ponce de Leon Boulevard  
Coral Gables, FL 33146, USA  
[1] 305.666.7474  
[1] 305.666.7272 fax  
cable@4SProducts.com e-mail

## Technical Data Sheet

GelKore Loose Tube Optical Cables

Standard buffer tube with 2-288f

**Single Jacket / Single Armor**

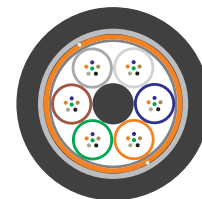
Cable Properties	Diameter	Weight
002 - 036f	14.0 mm (0.55 in)	180 kg/km (121 lbs/kft)
037 - 060f	14.0 mm (0.55 in)	180 kg/km (121 lbs/kft)
061 - 072f	14.2 mm (0.56 in)	184 kg/km (124 lbs/kft)
073 - 096f	16.0 mm (0.63 in)	226 kg/km (152 lbs/kft)
097 - 120f	17.9 mm (0.71 in)	275 kg/km (185 lbs/kft)
121 - 192f	19.0 mm (0.75 in)	288 kg/km (194 lbs/kft)
193 - 216f	19.8 mm (0.78 in)	315 kg/km (212 lbs/kft)
217 - 240f	20.8 mm (0.82 in)	345 kg/km (232 lbs/kft)
241 - 288f	22.9 mm (0.90 in)	413 kg/km (278 lbs/kft)

Mechanical Performance	Test Procedure	Specification
Low & high temperature cable	EIA/TIA-455-37A FOTP-37	20 x cable O.D. @ -30 °C and 60 °C
Impact resistance	EIA/TIA-455-25A FOTP-25	25 impact cycles
Compressive strength	EIA/TIA-455-41A FOTP-41	440 N/cm (248 lbs/in.)
Cable twist	EIA/TIA-455-85 FOTP-85	2 meter length ± 180°
Cable cyclic flexing	EIA/TIA-455-104 FOTP-104	20 x cable O.D. 25 cycles
Max. bend radius	EIA/TIA-455-37A FOTP-37	Installation Service 20 x cable O.D. 10 x cable O.D.
Max. tensile load	EIA/TIA-455-33 FOTP-33	Installation Service 2700 N (600 lbf) 890 N (200 lbf)
Gopher resistance		index rating <3

Environmental Performance	Test Procedure	Specification
Temperature	EIA/TIA-455-3A FOTP-3	Operation -40 to +70 °C (-40 to +158 °F) Installation -30 to +60 °C (-22 to +140 °F) Storage/Shipping -40 to +75 °C (-40 to +168 °F)
Cable aging	EIA/TIA-455-37 FOTP-37	168 hours @ 85 °C
Cable Freezing	EIA/TIA-455-98 FOTP-98	Frozen in ice
Water penetration	EIA/TIA-455-82B FOTP-82	1 meter for 24 hours
Compound drip temperature	EIA/TIA-455-81B FOTP-81	75 °C
Color coding permanence	Telcordia GR-20	Colors stable after aging



Specifications are subject to change without notice. The data given is subject to normal manufacturing tolerances. 4SProducts Loose Tube Optical Cables are tested in accordance with the requirements of Bellcore GR-20. Performance specifications are measured per EIA Fiber Optic Test Procedures.



## Technical Data Sheet

GelKore Loose Tube Optical Cables

Standard buffer tube with 2-288f

**Dual Jacket / Single Armor**

### Application

Rugged outdoor fiber optic cable designed for direct burial, duct and/or lashed aerial installations.

### Benefits

- Fiber Count up to 288f
- Suitable for aerial, duct and direct buried applications
- MDPE jacket for low friction installation
- Corrugated steel armor for added mechanical protection
- Excellent handling characteristics
- Low installation costs

### Fiber types

- G.651 multi-mode fiber
- G.652 single-mode fiber
- G.655 NZDS fiber for DWDM applications

### Full range of protections

- Water blocked
- Rodent resistant

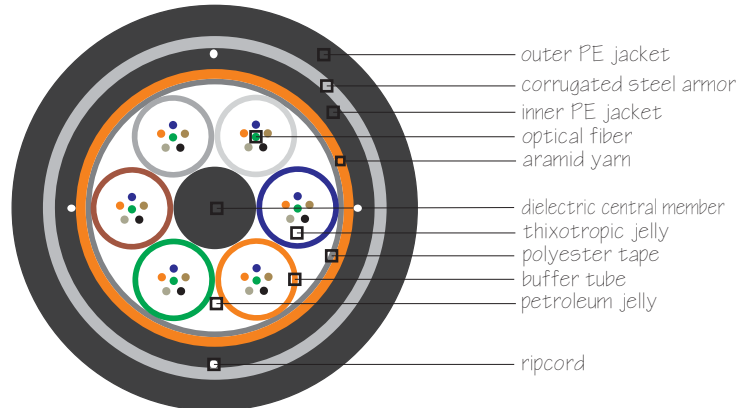
### Full range of applications

- Aerial
- Duct
- Direct buried

### Optional protections

- HDPE jacket
- All dielectric
- Single jacket / single armor
- Dual jacket / dual armor
- Triple jacket / dual armor

### Cable cut-away



### Typical parameters

Number of fibers	Up to 288
Diameter	16.2 mm (0.64 in) to 25.5 mm (1.00 in)
Cable weight	228 kg/km (153 lbs/kft) to 498 kg/km (335 lbs/kft)
Max. bend radius	20 x cable O.D.
Max. working tension	2700 N (600 lbf)
Operating temperature range	-40 °C / 70 °C (-40 °F / 158 °F)

Above figures are nominal values; actual production dimensions and weights may deviate slightly from the indicated figures above



### Qualifications & approvals

REA PE-90  
Bellcore Standards  
ITU Standards  
TIA/EIA Standards

[www.4SProducts.com](http://www.4SProducts.com)

1st ISSUE

4621 Ponce de Leon Boulevard  
Coral Gables, FL 33146, USA  
[1] 305.666.7474  
[1] 305.666.7272 fax  
cable@4SProducts.com e-mail



## Technical Data Sheet

GelKore Loose Tube Optical Cables

Standard buffer tube with 2-288f

**Dual Jacket / Single Armor**

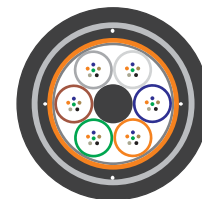
Cable Properties	Diameter	Weight
002 - 036f	16.2 mm (0.64 in)	228 kg/km (153 lbs/kft)
037 - 060f	16.2 mm (0.64 in)	228 kg/km (153 lbs/kft)
061 - 072f	16.3 mm (0.64 in)	231 kg/km (155 lbs/kft)
073 - 096f	18.2 mm (0.72 in)	279 kg/km (187 lbs/kft)
097 - 120f	20.1 mm (0.79 in)	335 kg/km (225 lbs/kft)
121 - 192f	21.6 mm (0.85 in)	362 kg/km (243 lbs/kft)
193 - 216f	22.4 mm (0.88 in)	391 kg/km (263 lbs/kft)
217 - 240f	23.4 mm (0.92 in)	424 kg/km (285 lbs/kft)
241 - 288f	25.4 mm (1.00 in)	498 kg/km (335 lbs/kft)

Mechanical Performance	Test Procedure	Specification
Low & high temperature cable	EIA/TIA-455-37A FOTP-37	20 x cable O.D. @ -30 °C and 60 °C
Impact resistance	EIA/TIA-455-25A FOTP-25	25 impact cycles
Compressive strength	EIA/TIA-455-41A FOTP-41	440 N/cm (248 lbs/in.)
Cable twist	EIA/TIA-455-85 FOTP-85	2 meter length ± 180°
Cable cyclic flexing	EIA/TIA-455-104 FOTP-104	20 x cable O.D. 25 cycles
Max. bend radius	EIA/TIA-455-37A FOTP-37	Installation Service 20 x cable O.D. 10 x cable O.D.
Max. tensile load	EIA/TIA-455-33 FOTP-33	Installation Service 2700 N (600 lbf) 890 N (200 lbf)
Gopher resistance		index rating <3

Environmental Performance	Test Procedure	Specification
Temperature	EIA/TIA-455-3A FOTP-3	Operation -40 to +70 °C (-40 to +158 °F) Installation -30 to +60 °C (-22 to +140 °F) Storage/Shipping -40 to +75 °C (-40 to +168 °F)
Cable aging	EIA/TIA-455-37 FOTP-37	168 hours @ 85 °C
Cable Freezing	EIA/TIA-455-98 FOTP-98	Frozen in ice
Water penetration	EIA/TIA-455-82B FOTP-82	1 meter for 24 hours
Compound drip temperature	EIA/TIA-455-81B FOTP-81	75 °C
Color coding permanence	Telcordia GR-20	Colors stable after aging



Specifications are subject to change without notice. The data given is subject to normal manufacturing tolerances. 4SProducts Loose Tube Optical Cables are tested in accordance with the requirements of Bellcore GR-20. Performance specifications are measured per EIA Fiber Optic Test Procedures.



## Technical Data Sheet

GelKore Loose Tube Optical Cables

Standard buffer tube with 2-288f

**Dual Jacket / Dual Armor**

### Application

Rugged outdoor fiber optic cable designed for direct burial installations, where extreme compressive strengths and rodent protection is required

### Benefits

- Fiber Count up to 288f
- Suitable for aerial, duct and direct buried applications
- MDPE jacket for low friction installation
- Corrugated steel armor for added mechanical protection
- Excellent handling characteristics
- Low installation costs

### Fiber types

- G.651 multi-mode fiber
- G.652 single-mode fiber
- G.655 NZDS fiber for DWDM applications

### Full range of protections

- Water blocked
- Rodent resistant

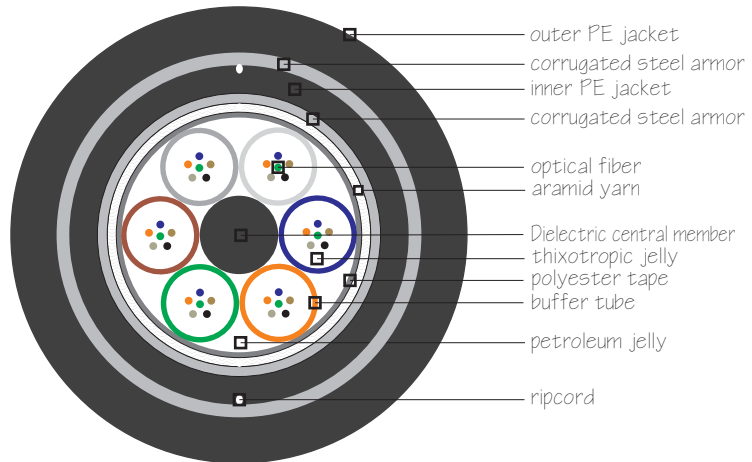
### Full range of applications

- Aerial
- Duct
- Direct buried

### Optional protections

- HDPE jacket
- All dielectric
- Single jacket / single armor
- Dual jacket / single armor
- Triple jacket / dual armor

### Cable cut-away



### Typical parameters

Number of fibers	Up to 288
Diameter	17.0 mm (0.67 in) to 27.0 mm (1.06 in)
Cable weight	299 kg/km (201 lbs/kft) to 622 kg/km (445 lbs/kft)
Max. bend radius	20 x cable O.D.
Max. working tension	2700 N (600 lbf)
Operating temperature range	-40 °C / 70 °C (-40 °F / 158 °F)

Above figures are nominal values; actual production dimensions and weights may deviate slightly from the indicated figures above



### Qualifications & approvals

REA PE-90  
Bellcore Standards  
ITU Standards  
TIA/EIA Standards

[www.4SProducts.com](http://www.4SProducts.com)

1st ISSUE

4621 Ponce de Leon Boulevard  
Coral Gables, FL 33146, USA  
[1] 305.666.7474  
[1] 305.666.7272 fax  
cable@4SProducts.com e-mail

## Technical Data Sheet

GelKore Loose Tube Optical Cables

Standard buffer tube with 2-288f

**Dual Jacket / Dual Armor**

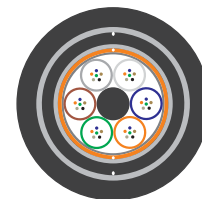
Cable Properties	Diameter	Weight
002 - 036f	17.0 mm (0.67 in)	299 kg/km (201 lbs/kft)
037 - 060f	17.0 mm (0.67 in)	299 kg/km (201 lbs/kft)
061 - 072f	17.7 mm (0.70 in)	320 kg/km (215 lbs/kft)
073 - 096f	19.5 mm (0.77 in)	384 kg/km (258 lbs/kft)
097 - 120f	21.9 mm (0.86 in)	474 kg/km (318 lbs/kft)
121 - 192f	23.0 mm (0.91 in)	494 kg/km (332 lbs/kft)
193 - 216f	23.8 mm (0.94 in)	526 kg/km (353 lbs/kft)
217 - 240f	24.8 mm (0.97 in)	565 kg/km (380 lbs/kft)
241 - 288f	27.0 mm (1.06 in)	662 kg/km (445 lbs/kft)

Mechanical Performance	Test Procedure	Specification
Low & high temperature cable	EIA/TIA-455-37A FOTP-37	20 x cable O.D. @ -30 °C and 60 °C
Impact resistance	EIA/TIA-455-25A FOTP-25	25 impact cycles
Compressive strength	EIA/TIA-455-41A FOTP-41	>440 N/cm (248 lbs/in.)
Cable twist	EIA/TIA-455-85 FOTP-85	2 meter length ± 180°
Cable cyclic flexing	EIA/TIA-455-104 FOTP-104	20 x cable O.D. 25 cycles
Max. bend radius	EIA/TIA-455-37A FOTP-37	Installation Service 20 x cable O.D. 10 x cable O.D.
Max. tensile load	EIA/TIA-455-33 FOTP-33	Installation Service 2700 N (600 lbf) 890 N (200 lbf)
Gopher resistance		index rating <3

Environmental Performance	Test Procedure	Specification
Temperature	EIA/TIA-455-3A FOTP-3	Operation -40 to +70 °C (-40 to +158 °F) Installation -30 to +60 °C (-22 to +140 °F) Storage/Shipping -40 to +75 °C (-40 to +168 °F)
Cable aging	EIA/TIA-455-37 FOTP-37	168 hours @ 85 °C
Cable Freezing	EIA/TIA-455-98 FOTP-98	Frozen in ice
Water penetration	EIA/TIA-455-82B FOTP-82	1 meter for 24 hours
Compound drip temperature	EIA/TIA-455-81B FOTP-81	75 °C
Color coding permanence	Telcordia GR-20	Colors stable after aging



Specifications are subject to change without notice. The data given is subject to normal manufacturing tolerances. 4SProducts Loose Tube Optical Cables are tested in accordance with the requirements of Bellcore GR-20. Performance specifications are measured per EIA Fiber Optic Test Procedures.



## Technical Data Sheet

GelKore Loose Tube Optical Cables

Standard buffer tube with 2-288f

**Triple Jacket / Dual Armor**

### Application

Rugged outdoor fiber optic cable designed for direct burial installations, where extreme compressive strengths and rodent protection is required.

### Benefits

- Fiber Count up to 288f
- Suitable for aerial, duct and direct buried applications
- MDPE jacket for low friction installation
- Corrugated steel armor for added mechanical protection
- Excellent handling characteristics
- Low installation costs

### Fiber types

- G.651 multi-mode fiber
- G.652 single-mode fiber
- G.655 NZDS fiber for DWDM applications

### Full range of protections

- Water blocked
- Rodent resistant

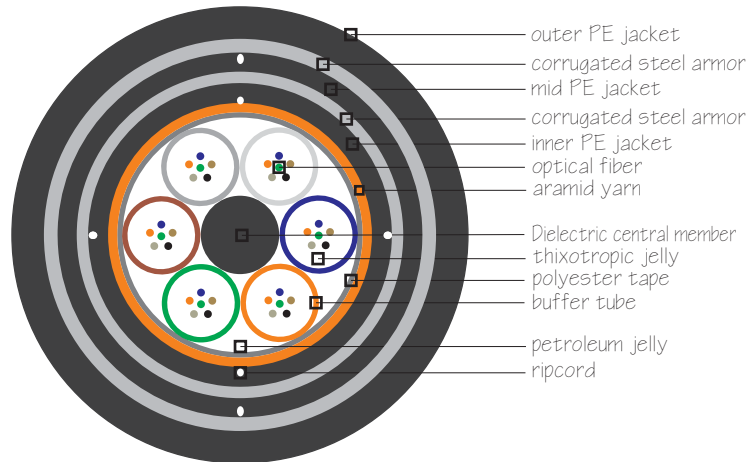
### Full range of applications

- Aerial
- Duct
- Direct buried

### Optional protections

- HDPE jacket
- All dielectric
- Single jacket / single armor
- Dual jacket / single armor
- Dual Jacket / dual armor

### Cable cut-away



### Typical parameters

Number of fibers	Up to 288
Diameter	20.2 mm (0.80 in) to 29.5 mm(1.16 in)
Cable weight	390 kg/km (262 lbs/kft) to 749 kg/km (503 lbs/kft)
Max. bend radius	20 x cable O.D.
Max. working tension	2700 N (600 lbf)
Operating temperature range	-40 °C / 70 °C (-40 °F / 158 °F)

Above figures are nominal values; actual production dimensions and weights may deviate slightly from the indicated figures above



### Qualifications & approvals

REA PE-90  
Bellcore Standards  
ITU Standards  
TIA/EIA Standards

[www.4SProducts.com](http://www.4SProducts.com)

1st ISSUE

4621 Ponce de Leon Boulevard  
Coral Gables, FL 33146, USA  
[1] 305.666.7474  
[1] 305.666.7272 fax  
cable@4SProducts.com e-mail

## Technical Data Sheet

GelKore Loose Tube Optical Cables

Standard buffer tube with 2-288f

**Triple Jacket / Dual Armor**

Cable Properties	Diameter	Weight
002 - 036f	20.2 mm (0.80 in)	390 kg/km (262 lbs/kft)
037 - 060f	20.2 mm (0.80 in)	390 kg/km (262 lbs/kft)
061 - 072f	20.3 mm (0.80 in)	390 kg/km (262 lbs/kft)
073 - 096f	22.2 mm (0.87 in)	446 kg/km (300 lbs/kft)
097 - 120f	23.7 mm (0.93 in)	507 kg/km (341 lbs/kft)
121 - 192f	25.5 mm (1.00 in)	574 kg/km (386 lbs/kft)
193 - 216f	26.5 mm (1.04 in)	614 kg/km (412 lbs/kft)
217 - 240f	27.3 mm (1.07 in)	650 kg/km (437 lbs/kft)
241 - 288f	29.5 mm (1.16 in)	749 kg/km (503 lbs/kft)

Mechanical Performance	Test Procedure	Specification
Low & high temperature cable	EIA/TIA-455-37A FOTP-37	20 x cable O.D. @ -30 °C and 60 °C
Impact resistance	EIA/TIA-455-25A FOTP-25	25 impact cycles
Compressive strength	EIA/TIA-455-41A FOTP-41	>440 N/cm (248 lbs/in.)
Cable twist	EIA/TIA-455-85 FOTP-85	2 meter length ± 180°
Cable cyclic flexing	EIA/TIA-455-104 FOTP-104	20 x cable O.D. 25 cycles
Max. bend radius	EIA/TIA-455-37A FOTP-37	Installation Service 20 x cable O.D. 10 x cable O.D.
Max. tensile load	EIA/TIA-455-33 FOTP-33	Installation Service 2700 N (600 lbf) 890 N (200 lbf)
Gopher resistance		index rating <3

Environmental Performance	Test Procedure	Specification
Temperature	EIA/TIA-455-3A FOTP-3	Operation -40 to +70 °C (-40 to +158 °F) Installation -30 to +60 °C (-22 to +140 °F) Storage/Shipping -40 to +75 °C (-40 to +168 °F)
Cable aging	EIA/TIA-455-37 FOTP-37	168 hours @ 85 °C
Cable Freezing	EIA/TIA-455-98 FOTP-98	Frozen in ice
Water penetration	EIA/TIA-455-82B FOTP-82	1 meter for 24 hours
Compound drip temperature	EIA/TIA-455-81B FOTP-81	75 °C
Color coding permanence	Telcordia GR-20	Colors stable after aging



Specifications are subject to change without notice. The data given is subject to normal manufacturing tolerances. 4SProducts Loose Tube Optical Cables are tested in accordance with the requirements of Bellcore GR-20. Performance specifications are measured per EIA Fiber Optic Test Procedures.

