

catalog | **Optical Cables**
Terra | ezKore



Technical Data Sheet

Gel-free
ezKore 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
- Gel-free buffer tubes & core
- The dry water blocking materials can easily be removed without the use of cable cleaning solvents, yielding significant labor cost savings
- Lightweight with small diameter
- Excellent handling characteristics

Fiber types

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

Full range of protections

- Water blocked

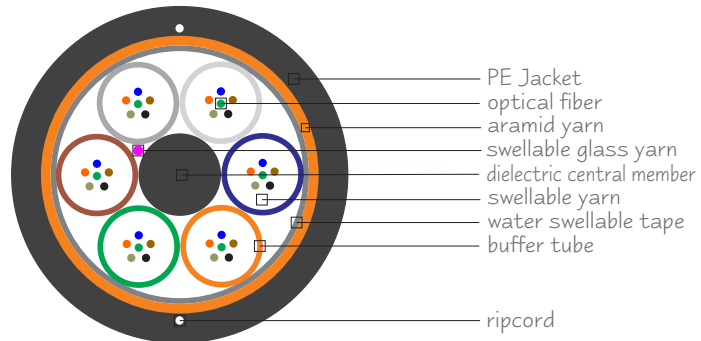
Full range of applications

- 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 / dual armor

Cable cut-away



Typical parameters

Number of fibers	Up to 288
Diameter	11.7 mm (0.46 in) to 19.7 mm (0.78 in)
Cable weight	92 kg/km (62 lbs/kft) to 233 kg/km (157 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

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Standard buffer tube with 2-288f

Single Jacket / All-Dielectric

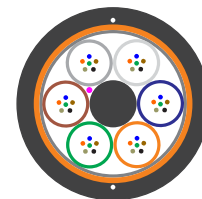
Cable Properties	Diameter	Weight
002 - 036f	11.7 mm (0.46 in)	092 kg/km (062 lbs/kft)
037 - 048f	11.7 mm (0.46 in)	093 kg/km (062 lbs/kft)
049 - 060f	11.7 mm (0.46 in)	095 kg/km (064 lbs/kft)
061 - 072f	11.7 mm (0.46 in)	095 kg/km (064 lbs/kft)
093 - 096f	13.4 mm (0.53 in)	120 kg/km (081 lbs/kft)
097 - 144f	16.7 mm (0.66 in)	185 kg/km (124 lbs/kft)
145 - 192f	17.2 mm (0.68 in)	178 kg/km (120 lbs/kft)
193 - 216f	17.2 mm (0.68 in)	178 kg/km (120 lbs/kft)
217 - 288f	19.7 mm (0.78 in)	233 kg/km (157 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) 750 N (168 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



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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

Gel-free
ezKore Loose Tube Optical Cables

Standard buffer tube with 2-288f

Single Jacket / All-Dielectric | Rodent Protected

Application

Lightweight outdoor fiber optic cable designed for aerial (lashed) and duct installations where rodents are present.

Benefits

- Fiber Count up to 288f
- Suitable for aerial and duct applications
- MDPE jacket for low friction installation
- Gel-free buffer tubes & core
- The dry water blocking materials can easily be removed without the use of cable cleaning solvents, yielding significant labor cost savings
- Lightweight with small diameter
- Excellent handling characteristics
- Completely dielectric (armor made of glass yarns)

Fiber types

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

Full range of protections

- Water blocked
- Rodent protected

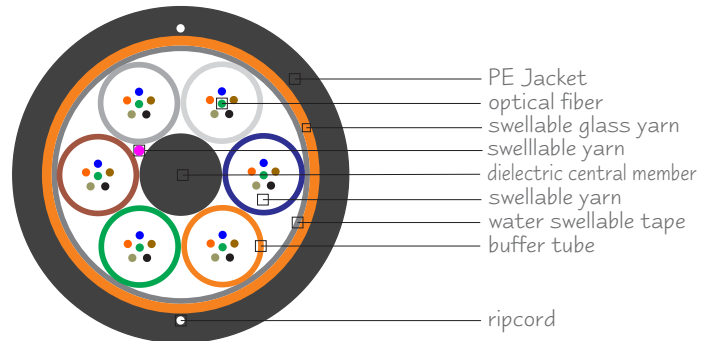
Full range of applications

- Aerial
- Duct

Optional protections

- HDPE jacket
- Dual Jacket / all-dielectric
- Single jacket / single armor
- Dual jacket / single armor

Cable cut-away



Typical parameters

Number of fibers	Up to 288
Diameter	11.7 mm (0.46 in) to 19.7 mm (0.78 in)
Cable weight	92 kg/km (62 lbs/kft) to 233 kg/km (157 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
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Standard buffer tube with 2-288f

Single Jacket / All-Dielectric | Rodent Protected

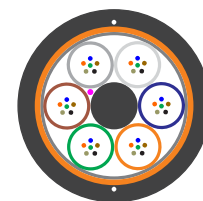
Cable Properties	Diameter	Weight
002 - 036f	11.7 mm (0.46 in)	092 kg/km (062 lbs/kft)
037 - 048f	11.7 mm (0.46 in)	093 kg/km (062 lbs/kft)
049 - 060f	11.7 mm (0.46 in)	095 kg/km (064 lbs/kft)
061 - 072f	11.7 mm (0.46 in)	095 kg/km (064 lbs/kft)
093 - 096f	13.4 mm (0.53 in)	120 kg/km (081 lbs/kft)
097 - 144f	16.7 mm (0.66 in)	185 kg/km (124 lbs/kft)
145 - 192f	17.2 mm (0.68 in)	178 kg/km (120 lbs/kft)
193 - 216f	17.2 mm (0.68 in)	178 kg/km (120 lbs/kft)
217 - 288f	19.7 mm (0.78 in)	233 kg/km (157 lbs/kft)

Mechanical Performance	Test Procedure	Specification
Low & high temperature cable	EIA/TIA-455-37A FOTP-37	20 x cable O.D. @ -40 °C and 70 °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) 750 N (168 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 +70 °C (-22 to +158 °F) Storage/Shipping -40 to +75 °C (-40 to +158 °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



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Performance specifications are measured per EIA Fiber Optic Test Procedures.



Technical Data Sheet

Gel-free
ezKore 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
- Gel-free buffer tubes & core
- The dry water blocking materials can easily be removed without the use of cable cleaning solvents, yielding significant labor cost savings
- Lightweight with reduced diameter
- Excellent handling characteristics

Fiber types

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

Full range of protections

- Water blocked
- Rodent resistant

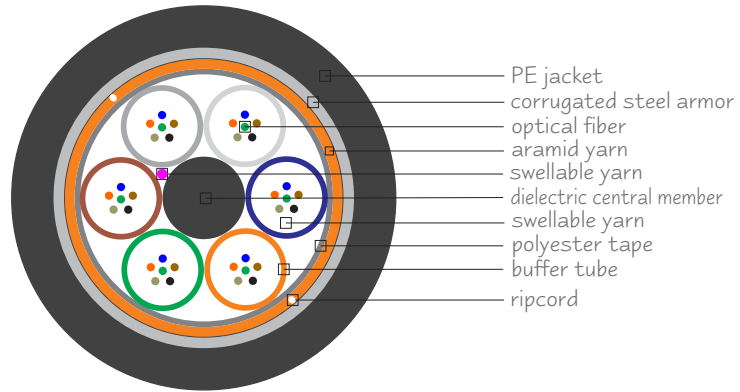
Full range of applications

- 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

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Technical Data Sheet

Gel-free
ezKore Loose Tube Optical Cables

Standard buffer tube with 2-288f

Single Jacket / Single Armor

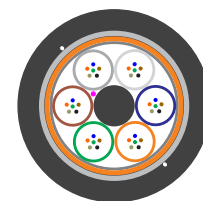
Cable Properties	Diameter	Weight
002 - 036f	14.0 mm (0.55 in)	180 kg/km (121 lbs/kft)
037 - 060f	14.0 mm (0.55 in)	180 kg/km (121 lbs/kft)
061 - 072f	14.2 mm (0.56 in)	184 kg/km (124 lbs/kft)
073 - 096f	16.0 mm (0.63 in)	226 kg/km (152 lbs/kft)
097 - 120f	17.9 mm (0.71 in)	275 kg/km (185 lbs/kft)
121 - 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



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Performance specifications are measured per EIA Fiber Optic Test Procedures.



Technical Data Sheet

Gel-free
ezKore 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
- Gel-free buffer tubes & core
- The dry water blocking materials can easily be removed without the use of cable cleaning solvents, yielding significant labor cost savings
- Excellent handling characteristics

Fiber types

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

Full range of protections

- Water blocked
- Rodent resistant

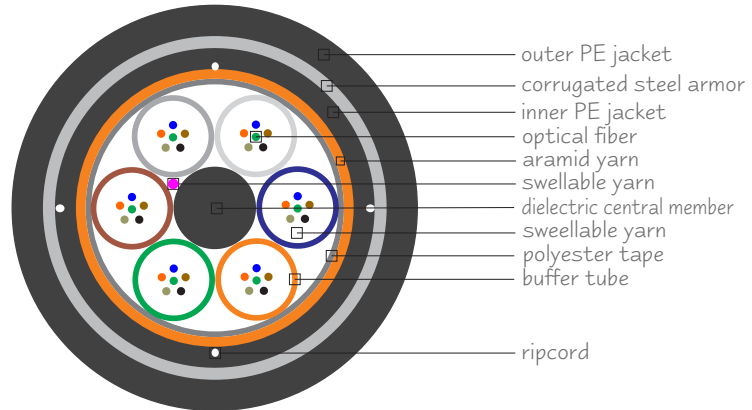
Full range of applications

- 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
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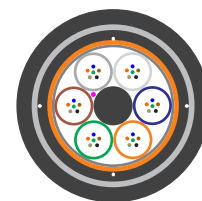
Cable Properties	Diameter	Weight
002 - 036f	16.2 mm (0.64 in)	228 kg/km (153 lbs/kft)
037 - 060f	16.2 mm (0.64 in)	228 kg/km (153 lbs/kft)
061 - 072f	16.3 mm (0.64 in)	231 kg/km (155 lbs/kft)
073 - 096f	18.2 mm (0.72 in)	279 kg/km (187 lbs/kft)
097 - 120f	20.1 mm (0.79 in)	335 kg/km (225 lbs/kft)
121 - 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



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Technical Data Sheet

Gel-free
ezKore 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
- Enhanced compressive strength
- Superior rodent protection
- Suitable for aerial, duct and direct buried applications
- MDPE jacket for low friction installation
- Corrugated steel armor for added mechanical protection
- Gel-free buffer tubes & core
- The dry water blocking materials can easily be removed without the use of cable cleaning solvents, yielding significant labor cost savings
- Excellent handling characteristics

Fiber types

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

Full range of protections

- Water blocked
- Rodent resistant

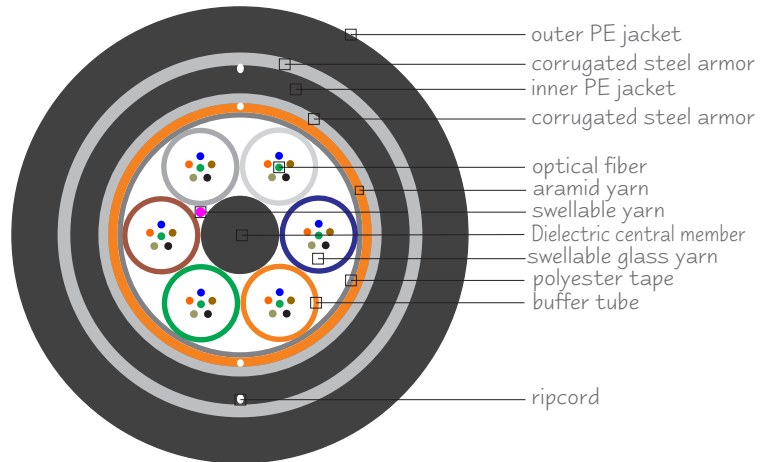
Full range of applications

- 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
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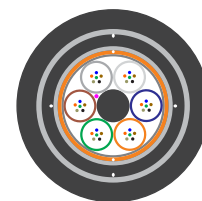
Cable Properties	Diameter	Weight
002 - 036f	17.0 mm (0.67 in)	299 kg/km (201 lbs/kft)
037 - 060f	17.0 mm (0.67 in)	299 kg/km (201 lbs/kft)
061 - 072f	17.7 mm (0.70 in)	320 kg/km (215 lbs/kft)
073 - 096f	19.5 mm (0.77 in)	384 kg/km (258 lbs/kft)
097 - 120f	21.9 mm (0.86 in)	474 kg/km (318 lbs/kft)
121 - 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



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Technical Data Sheet

Gel-free
ezKore 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
- Enhanced compressive strength
- Superior rodent protection
- Suitable for aerial, duct and direct buried applications
- MDPE jacket for low friction installation
- Corrugated steel armor for added mechanical protection
- Gel-free buffer tubes & core
- The dry water blocking materials can easily be removed without the use of cable cleaning solvents, yielding significant labor cost savings
- Excellent handling characteristics

Fiber types

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

Full range of protections

- Water blocked
- Rodent resistant

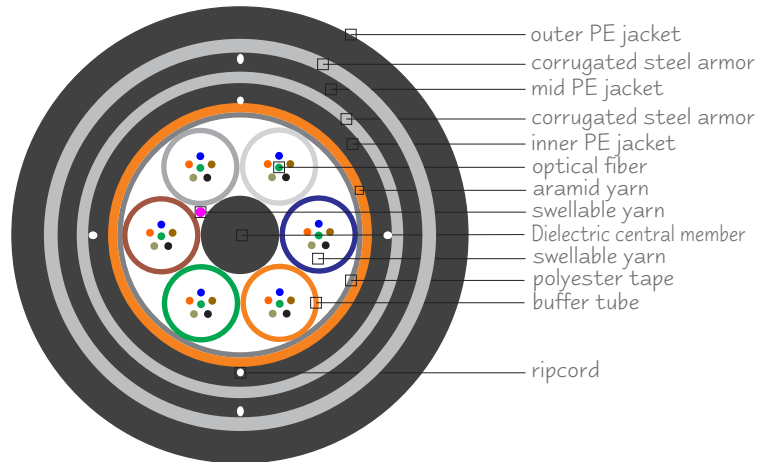
Full range of applications

- 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

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Technical Data Sheet

Gel-free
ezKore 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.

