

**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

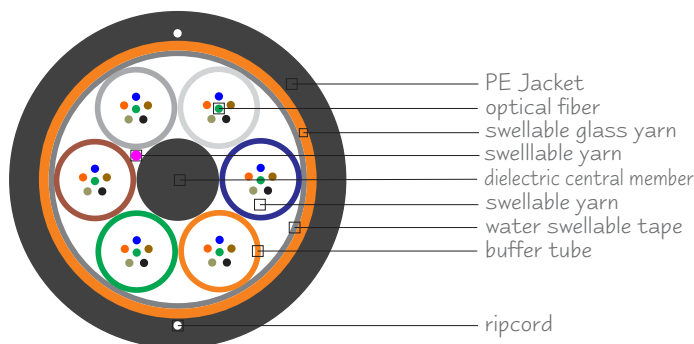
- Water blocked
- Rodent protected

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
TIA/EIA Standards

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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	IEA/TIA-455-37A FOTP-37	20 x cable O.D. @ -40 °C and 70 °C
Impact resistance	IEA/TIA-455-25A FOTP-25	25 impact cycles
Compressive strength	IEA/TIA-455-41A FOTP-41	220 N/cm (124 lbs/in.)
Cable twist	IEA/TIA-455-85 FOTP-85	2 meter length ± 180°
Cable cyclic flexing	IEA/TIA-455-104 FOTP-104	20 x cable O.D. 25 cycles
Max. bend radius	IEA/TIA-455-37A FOTP-37	Installation Service 20 x cable O.D. 10 x cable O.D.
Max. tensile load	IEA/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	IEA/TIA-455-3A FOTP-3	Operation Installation Storage/Shipping -40 to +70 °C (-40 to +158 °F) -30 to +70 °C (-22 to +158 °F) -40 to +75 °C (-40 to +158 °F)
Cable aging	IEA/TIA-455-37 FOTP-37	168 hours @ 85 °C
Cable Freezing	IEA/TIA-455-98 FOTP-98	Frozen in ice
Water penetration	IEA/TIA-455-82B FOTP-82	1 meter for 24 hours
Compound drip temperature	IEA/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 IEC Fiber Optic Test Procedures.

