

## 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

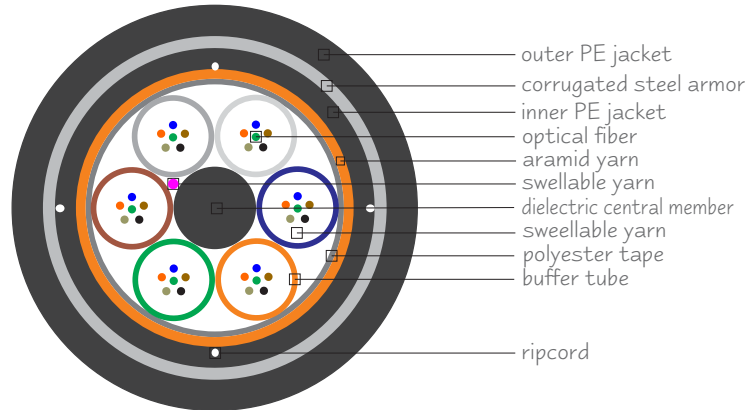
### Full range of applications

- 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  
TIA/EIA 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



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.

