

## 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

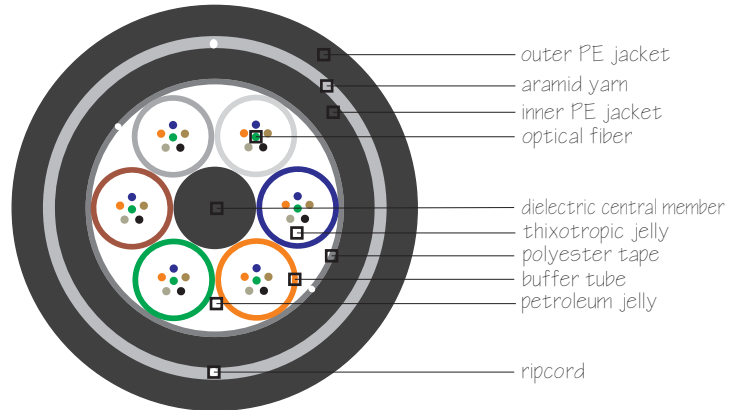
### Full range of applications

- 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

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1st ISSUE

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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.

