

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

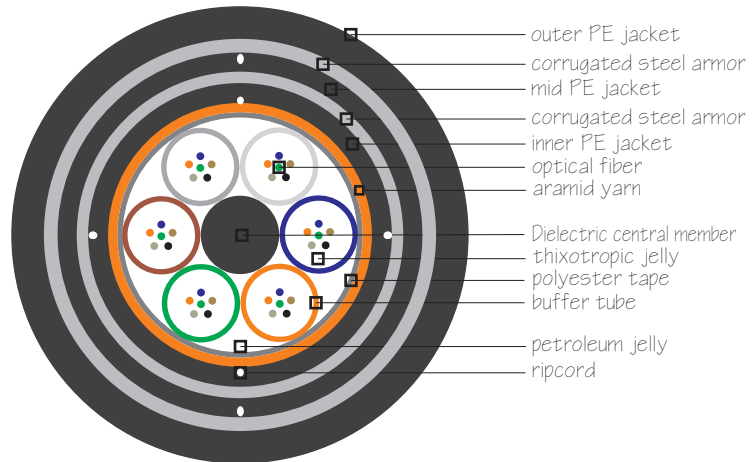
Full range of applications

- 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

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1st ISSUE

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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.

