

Technical Data Sheet

GelKore ADSS Loose Tube Optical Cables

Dual Jacket

Standard buffer tube with 2-216f

All Dielectric Self Supporting

Transmission span - average

Light - 950 m (3117 ft.) max
Medium - 800 m (2625 ft.) max
Heavy - 490 m (1608 ft.) max

Application

ADSS cables are used on overhead power lines and/or poles. The self supporting design allows installations independent of other wires/conductors.

Benefits

- Fiber Count up to 216f
- Suitable for all types of aerial lines
- Rapid deployment
- Installs on live power lines
- Available for long, medium and short spans

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

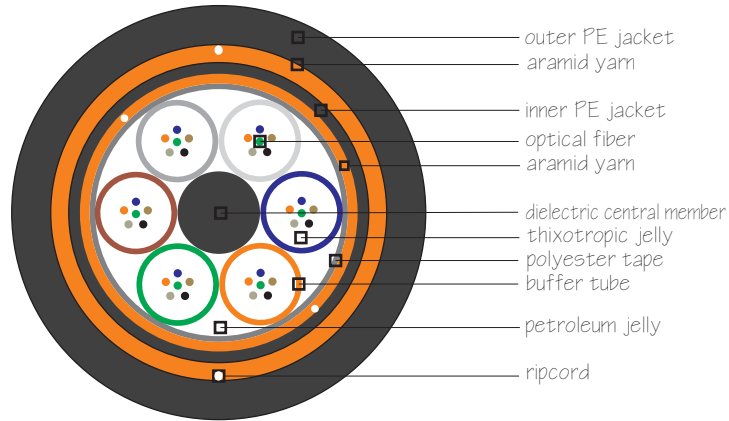
Full range of applications

- Outdoor
- Aerial

Optional protections

- Track resistant

Cable cut-away



Typical parameters

Number of fibers	Up to 216
Nominal outer diameter	15.8 mm (0.62 in) to 23.0 mm (0.91 in)
Cable weight	210 kg/km (141 lbs/kft) to 470 kg/km (316)
Max. bend radius	20 x cable O.D.
Max. working tension	22300 to 38000 N (5013 to 8543 lbf)
Operating temperature range	-40 °C / 70 °C (-40 °F / 158 °F)



Qualifications & approvals

REA PE-90
Bellcore Standards
ITU Standards
TIA/EIA Standards

www.4SProducts.com

1st ISSUE

4621 Ponce de Leon Boulevard
Coral Gables, FL 33146, USA
[1] 305.666.7474
[1] 305.666.7272 fax
cable@4SProducts.com e-mail

Technical Data Sheet

GeiKore ADSS Loose Tube Optical Cables

Dual Jacket

Standard buffer tube with 2-216f

All Dielectric Self Supporting

Transmission span - average

Light - 950 m (3117 ft.) max
Medium - 800 m (2625 ft.) max
Heavy - 490 m (1608 ft.) max

Cable Properties	Weight & cube	Tensile strength (N) NESC Medium
002 - 036f	diameter 15.8 mm (0.62 in) weight 210 Kg/km (141 lbs/kft)	operating 22300 install 38000
037 - 060f	diameter 17.1 mm (0.67 in) weight 245 Kg/km (165 lbs/kft)	operation 24800 install 42000
061 - 072f	diameter 17.1 mm (0.67 in) weight 245 Kg/km (165 lbs/kft)	operating 24800 install 42000
073 - 096f	diameter 19.0 mm (0.75 in) weight 290 Kg/km (195 lbs/kft)	operating 28000 install 48000
097 - 120f	diameter 23.0 mm (0.91 in) weight 470 Kg/km (316 lbs/kft)	operating 38000 install 58000
121 - 144f	diameter 23.0 mm (0.91 in) weight 470 Kg/km (316 lbs/kft)	operating 38000 install 58000
145 - 216f	diameter 23.0 mm (0.91 in) weight 470 Kg/km (316 lbs/kft)	operating 38000 install 58000

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	20 x cable O.D. 10 x cable O.D.
Span length on NESC conditions	Light Medium Heavy	950 m (3117 ft.) max 800 m (2625 ft.) max 490 m (1608 ft.) max Sag 2.0%

Environmental Performance	Test Procedure	Specification
Temperature	EIA/TIA-455-3A FOTP-3	Operation -40 to +70 °C (-40 to +158 °F) Installation -20 to +70 °C (-04 to +158 °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.

