

## Technical Data Sheet

### GelKore ADSS Loose Tube Optical Cables

#### Dual Jacket

Standard buffer tube with 2-216f

All Dielectric Self Supporting

Long span - average

Light - 640 m (2100 ft.) max  
Medium - 500 m (1640 ft.) max  
Heavy - 320 m (1050 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

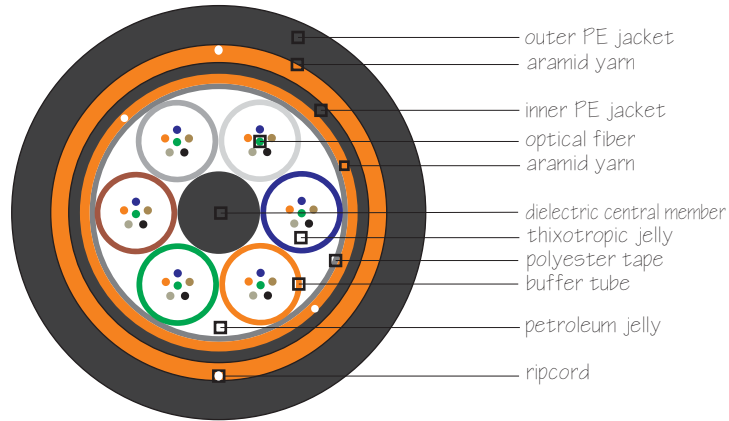
### Full range of applications

- Outdoor
- Aerial

### Optional protections

- Track resistant

### Cable cut-away



### Typical parameters

Number of fibers	Up to 216
Nominal outer diameter	14.6 mm (0.58 in) to 21.8 mm (0.86 in)
Cable weight	180 kg/km (121 lbs/kft) to 405 kg/km (272 lbs/kft)
Max. bend radius	20 x cable O.D.
Max. working tension	16100 to 27000 N (3619 to 6070 lbf)
Operating temperature range	-40 °C / 70 °C (-40 °F / 158 °F)



### Qualifications & approvals

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

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Cable Properties	Weight & cube	Tensile strength (N) NESC Medium
002 - 036f	diameter 14.6 mm (0.58 in) weight 180 Kg/km (121 lbs/kft)	operating 16100 install 27500
037 - 060f	diameter 16.0 mm (0.63 in) weight 215 Kg/km (144 lbs/kft)	operation 17300 install 30000
061 - 072f	diameter 16.0 mm (0.63 in) weight 215 Kg/km (144 lbs/kft)	operating 17300 install 30000
073 - 096f	diameter 17.8 mm (0.70 in) weight 265 Kg/km (178 lbs/kft)	operating 20000 install 35000
097 - 120f	diameter 21.8 mm (0.86 in) weight 405 Kg/km (272 lbs/kft)	operating 27500 install 45000
121 - 144f	diameter 21.8 mm (0.86 in) weight 405 Kg/km (272 lbs/kft)	operating 27000 install 45000
145 - 216f	diameter 21.8 mm (0.86 in) weight 405 Kg/km (272 lbs/kft)	operating 27000 install 45000

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	640 m (2100 ft.) max 500 m (1640 ft.) max 320 m (1050 ft.) max Sag 1.5%

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.

