

Technical Data Sheet

GeiKore ADSS Loose Tube Optical Cables

Single Jacket

Standard buffer tube with 2-216f

All Dielectric Self Supporting

Short span - average

Light - 110 m (361 ft.) max
Medium - 092 m (302 ft.) max
Heavy - 054 m (177 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
- Single PE Jacket suitable for short-span applications

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

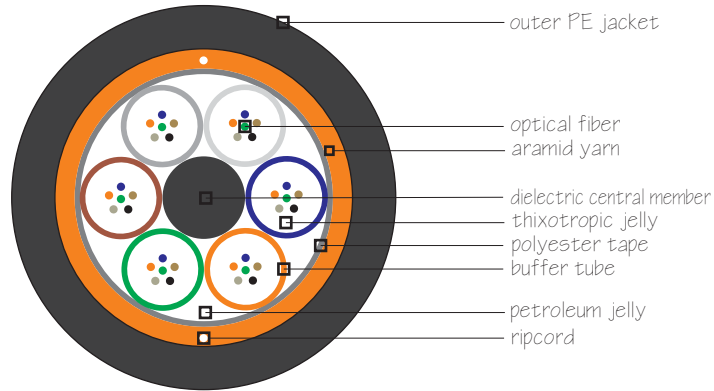
Full range of applications

- Outdoor
- Aerial

Optional protections

- Track resistant

Cable cut-away



Typical parameters

Number of fibers	Up to 216
Nominal outer diameter	11.6 mm (0.46 in) to 19.2 mm (0.76 in)
Cable weight	110 kg/km (074 lbs/kft) to 300 kg/km (202)
Max. bend radius	20 x cable O.D.
Max. working tension	3700 to 6700 N (832 to 1506 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 11.6 mm (0.46 in) weight 110 Kg/km (074 lbs/kft)	operating 3700 install 6500
037 - 060f	diameter 13.0 mm (0.51 in) weight 140 Kg/km (094 lbs/kft)	operation 4100 install 7500
061 - 072f	diameter 13.0 mm (0.51 in) weight 140 Kg/km (094 lbs/kft)	operating 4100 install 7500
073 - 096f	diameter 15.0 mm (0.59 in) weight 180 Kg/km (121 lbs/kft)	operating 4900 install 9000
097 - 120f	diameter 19.2 mm (0.76 in) weight 300 Kg/km (202 lbs/kft)	operating 6700 install 12000
121 - 144f	diameter 19.2 mm (0.76 in) weight 300 Kg/km (202 lbs/kft)	operating 6700 install 12000
145 - 216f	diameter 19.2 mm (0.76 in) weight 300 Kg/km (202 lbs/kft)	operating 6700 install 12000

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	110 m (361 ft.) max 092 m (302 ft.) max 054 m (177 ft.) max Sag 1.0%

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.

