

Technical Data Sheet

GelKore ADSS Loose Tube Optical Cables

Dual Jacket

Standard buffer tube with 2-216f

All Dielectric Self Supporting

Medium span - average
Light - 290 m (951 ft.) max
Medium - 250 m (820 ft.) max
Heavy - 160 m (525 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

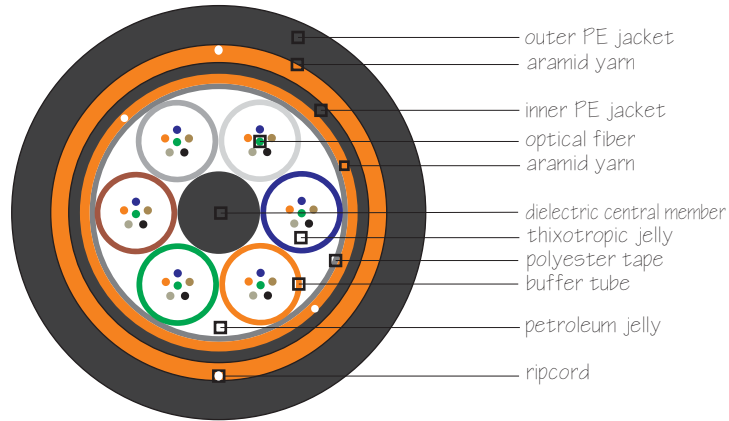
Full range of applications

- Outdoor
- Aerial

Optional protections

- Track resistant

Cable cut-away



Typical parameters

Number of fibers	Up to 216
Nominal outer diameter	14.1 mm (0.56 in) to 21.2 mm (0.84 in)
Cable weight	165 kg/km (111 lbs/kft) to 380 kg/km (255)
Max. bend radius	20 x cable O.D.
Max. working tension	9800 to 17600 N (2203 to 3957 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

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

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Cable Properties	Weight & cube	Tensile strength (N) NESC Medium
002 - 036f	diameter 14.1 mm (0.56 in) weight 165 Kg/km (111 lbs/kft)	operating 9800 install 16000
037 - 060f	diameter 15.5 mm (0.61 in) weight 200 Kg/km (134 lbs/kft)	operation 11100 install 18000
061 - 072f	diameter 15.5 mm (0.61 in) weight 200 Kg/km (134 lbs/kft)	operating 11100 install 18000
073 - 096f	diameter 17.3 mm (0.68 in) weight 245 Kg/km (165 lbs/kft)	operating 12900 install 21000
097 - 120f	diameter 21.2 mm (0.84 in) weight 380 Kg/km (255 lbs/kft)	operating 17600 install 29000
121 - 144f	diameter 21.2 mm (0.84 in) weight 380 Kg/km (255 lbs/kft)	operating 17600 install 29000
145 - 216f	diameter 21.2 mm (0.84 in) weight 380 Kg/km (255 lbs/kft)	operating 17600 install 29000

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	290 m (951 ft.) max 250 m (820 ft.) max 160 m (525 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.

