

Technical Data Sheet

GelKore ADSS Loose Tube Optical Cables

Dual Jacket

Standard buffer tube with 2-216f

All Dielectric Self Supporting

Short span - average

Light - 150 m (492 ft.) max
Medium - 122 m (400 ft.) max
Heavy - 074 m (243 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

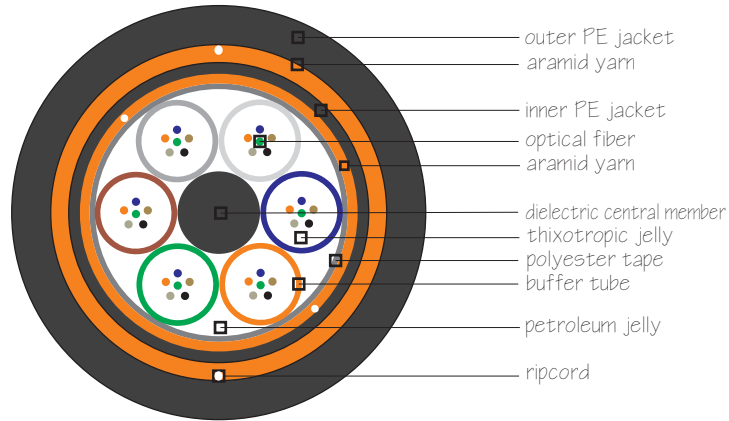
Full range of applications

- Outdoor
- Aerial

Optional protections

- Track resistant

Cable cut-away



Typical parameters

| | |
|-----------------------------|--|
| Number of fibers | Up to 216 |
| Nominal outer diameter | 13.3 mm (0.52 in) to 20.5 mm (0.81 in) |
| Cable weight | 145 kg/km (097 lbs/kft) to 355 kg/km (238) |
| Max. bend radius | 20 x cable O.D. |
| Max. working tension | 5300 to 9400 N (1191 to 2113 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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1st ISSUE

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| Cable Properties | Weight & cube | Tensile strength (N) NESC Medium |
|------------------|--|----------------------------------|
| 002 - 036f | diameter 13.3 mm (0.52 in) weight 145 Kg/km (097 lbs/kft) | operating 5300 install 9500 |
| 037 - 060f | diameter 14.7 mm (0.58 in) weight 180 Kg/km (121 lbs/kft) | operation 5900 install 10000 |
| 061 - 072f | diameter 14.7 mm (0.58 in) weight 180 Kg/km (121 lbs/kft) | operating 5900 install 10000 |
| 073 - 096f | diameter 16.5 mm (0.65 in) weight 230 Kg/km (155 lbs/kft) | operating 7000 install 13000 |
| 097 - 120f | diameter 20.5 mm (0.81 in) weight 355 Kg/km (238 lbs/kft) | operating 9400 install 16000 |
| 121 - 144f | diameter 20.5 mm (0.81 in) weight 355 Kg/km (238 lbs/kft) | operating 9400 install 16000 |
| 145 - 216f | diameter 20.5 mm (0.81 in) weight 355 Kg/km (238 lbs/kft) | operating 9400 install 16000 |

| 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 | 150 m (492 ft.) max 122 m (400 ft.) max 074 m (243 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.

