

Technical Data Sheet

GeIcKore ADSS Loose Tube Optical Cables

Single Jacket

Standard buffer tube with 2-216f

All Dielectric Self Supporting

Short span - average

Light - 60 m (197 ft.) max
Medium - 46 m (151 ft.) max
Heavy - 30 m (98 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

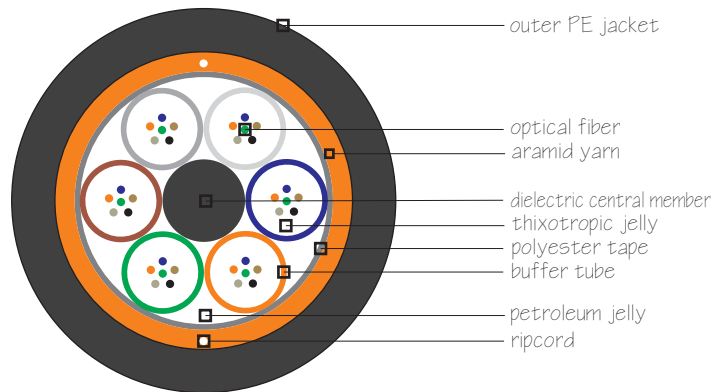
Full range of applications

- Outdoor
- Aerial

Optional protections

- Track resistant

Cable cut-away



Typical parameters

| | |
|-----------------------------|--|
| Number of fibers | Up to 216 |
| Nominal outer diameter | 11.2 mm (0.44 in) to 18.8 mm (0.74 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 | 2500 to 4000 N (562 to 899 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 11.2 mm (0.44 in) weight 110 Kg/km (074 lbs/kft) | operating 2500 install 4800 |
| 037 - 060f | diameter 12.6 mm (0.50 in) weight 140 Kg/km (094 lbs/kft) | operation 2700 install 5000 |
| 061 - 072f | diameter 12.6 mm (0.50 in) weight 140 Kg/km (094 lbs/kft) | operating 2700 install 5000 |
| 073 - 096f | diameter 14.6 mm (0.58 in) weight 180 Kg/km (121 lbs/kft) | operating 3000 install 5500 |
| 097 - 120f | diameter 18.8 mm (0.74 in) weight 300 Kg/km (202 lbs/kft) | operating 4000 install 7500 |
| 121 - 144f | diameter 18.8 mm (0.74 in) weight 300 Kg/km (202 lbs/kft) | operating 4000 install 7500 |
| 145 - 216f | diameter 18.8 mm (0.74 in) weight 300 Kg/km (202 lbs/kft) | operating 4000 install 7500 |

| 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 | 60 m (197 ft.) max 46 m (151 ft.) max 30 m (99 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.

