

## Technical Data Sheet

ezKore ADSS Loose Tube Optical Cables

Single Jacket

Gel-free 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 (098 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
- Completely gel-free cable. The dry water blocking materials can easily be removed without the use of cable cleaning solvents, yielding significant labor cost savings. Suitable for all types of aerial lines
- 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.652D single-mode fiber
- G.655 NZDS fiber for DWDM applications

### Full range of protections

- Water blocked

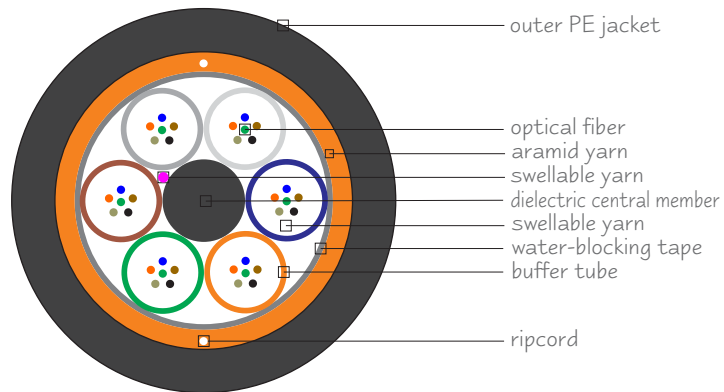
### Full range of applications

- 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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Light - 60 m (197 ft.) max  
Medium - 46 m (151 ft.) max  
Heavy - 30 m (99 ft.) max

| Cable Properties | Weight & cube  | Tensile strength (N) NESCS Medium |
|------------------|--|-----------------------------------|
| 002 - 036f       | diameter 11.2 mm (0.44 in)<br>weight 110 Kg/km (074 lbs/kft) | operating 2500<br>install 4800    |
| 037 - 060f       | diameter 12.6 mm (0.50 in)<br>weight 140 Kg/km (094 lbs/kft) | operation 2700<br>install 5000    |
| 061 - 072f       | diameter 12.6 mm (0.50 in)<br>weight 140 Kg/km (094 lbs/kft) | operating 2700<br>install 5000    |
| 073 - 096f       | diameter 14.6 mm (0.58 in)<br>weight 180 Kg/km (121 lbs/kft) | operating 3000<br>install 5500    |
| 097 - 120f       | diameter 18.8 mm (0.74 in)<br>weight 300 Kg/km (202 lbs/kft) | operating 4000<br>install 7500    |
| 121 - 144f       | diameter 18.8 mm (0.74 in)<br>weight 300 Kg/km (202 lbs/kft) | operating 4000<br>install 7500    |
| 145 - 216f       | diameter 18.8 mm (0.74 in)<br>weight 300 Kg/km (202 lbs/kft) | operating 4000<br>install 7500    |

| Mechanical Performance          | Test Procedure              | Specification  |
|---------------------------------|-----------------------------|--|
| Low & high temperature cable    | EIA/TIA-455-37A<br>FOTP-37  | 20 x cable O.D.<br>@ -30 °C and 60 °C  |
| Impact resistance               | EIA/TIA-455-25A<br>FOTP-25  | 25 impact cycles   |
| Compressive strength            | EIA/TIA-455-41A<br>FOTP-41  | 220 N/cm (124 lbs/in.)   |
| Cable twist                     | EIA/TIA-455-85<br>FOTP-85   | 2 meter length ± 180°  |
| Cable cyclic flexing            | EIA/TIA-455-104<br>FOTP-104 | 20 x cable O.D.<br>25 cycles   |
| Max. bend radius                | EIA/TIA-455-37A<br>FOTP-37  | 20 x cable O.D.<br>10 x cable O.D.   |
| Span length on NESCS conditions | Light<br>Medium<br>Heavy    | 060 m (197 ft.) max<br>046 m (151 ft.) max<br>030 m (99 ft.) max<br>Sag 1.0% |

| Environmental Performance | Test Procedure             | Specification  |
|---------------------------|----------------------------|--|
| Temperature               | EIA/TIA-455-3A<br>FOTP-3   | Operation -40 to +70 °C (-40 to +158 °F)<br>Installation -20 to +70 °C (-04 to +158 °F)<br>Storage/Shipping -40 to +75 °C (-40 to +168 °F) |
| Cable aging               | EIA/TIA-455-37<br>FOTP-37  | 168 hours @ 85 °C  |
| Cable Freezing            | EIA/TIA-455-98<br>FOTP-98  | Frozen in ice  |
| Water penetration         | EIA/TIA-455-82B<br>FOTP-82 | 1 meter for 24 hours   |
| Compound drip temperature | EIA/TIA-455-81B<br>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.

