

## Technical Data Sheet

ezKore ADSS Loose Tube Optical Cables

Single Jacket

Gel-free buffer tubes 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
- 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
- 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

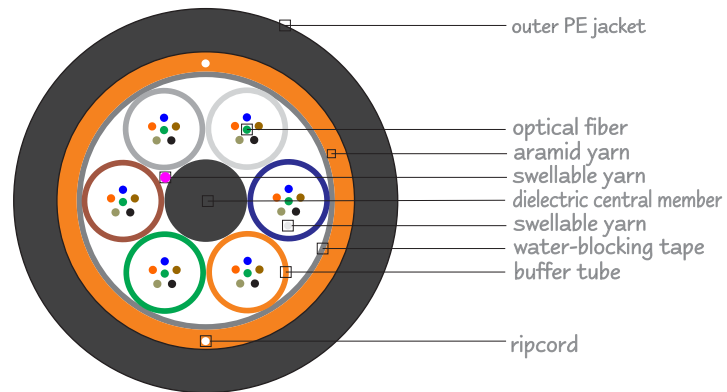
### Full range of applications

- Outdoor
- Aerial

### Optional protections

- Track resistant

### Cable cut-away



### Typical parameters

Number of fibers	Up to 216
Nominal outer diameter	11.9 mm (0.47 in) to 19.6 mm (0.77 in)
Cable weight	90 kg/km (060 lbs/kft) to 207 kg/km (139 lbs/kft)
Max. bend radius	20 x cable O.D.
Max. working tension	3700 to 6300 N (832 to 1416 lbf)
Operating temperature range	-40 °C / 70 °C (-40 °F / 158 °F)

Specifications are subject to change without prior notice. 4SProducts cables are designed and tested per IEC specifications.



### Qualifications & approvals

REA PE-90  
Bellcore Standards  
ITU Standards  
TIA/EIA Standards

[www.4SProducts.com](http://www.4SProducts.com)

1st ISSUE 2019

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Cable Properties	Weight & dims.	Tensile strength (N) NESC Medium
002 - 036f	diameter 11.9 mm (0.47 in) weight 90 Kg/km (060 lbs/kft)	operating 3700 install 5700
037 - 060f	diameter 13.2 mm (0.52 in) weight 108 Kg/km (073 lbs/kft)	operation 4100 install 6500
061 - 072f	diameter 13.2 mm (0.52 in) weight 108 Kg/km (073 lbs/kft)	operating 4100 install 6500
073 - 096f	diameter 15.4 mm (0.61 in) weight 139 Kg/km (89 lbs/kft)	operating 4800 install 7500
097 - 120f	diameter 19.2 mm (0.76 in) weight 219 Kg/km (147 lbs/kft)	operating 6300 install 9700
121 - 144f	diameter 19.2 mm (0.76 in) weight 219 Kg/km (147 lbs/kft)	operating 6300 install 9700
145 - 216f	diameter 19.6 mm (0.77 in) weight 207 Kg/km (139 lbs/kft)	operating 6300 install 10000

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-455-37A FOTP-37	Operation -40 to +70 °C (-40 to +158 °F) Installation -40 to +70 °C (-40 to +158 °F) Storage/Shipping -40 to +70 °C (-40 to +158 °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
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.

