4SProducts
Optical Cables

Atmos

Technical
Data Sheet

ezKore Loose Tube Optical Cables

NESC Heavy Conditions
Max. Span 152 m (500 ft.)

Gel-free buffer tube with 2-288f
Steel Messenger Self Supporting Fig-8 Sheath
Single Jacket / Single Armor

Application
Self supporting outdoor fiber optic cable in a figure 8 configuration for aerial installation on telecom poles. Designed for maximum typical span lengths of 152 m (500 ft.) under NESC heavy loading conditions.

Benefits
- Fiber Count up to 288f
- Suitable for all types of light aerial applications except power lines
- 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
- Excellent handling characteristics
- Utilizes traditional aerial cable hardware
- Suitable for short and medium spans

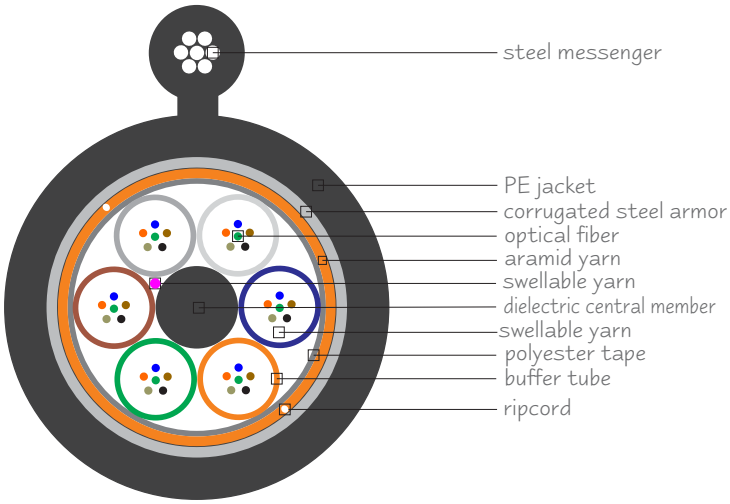
Fiber types
- G.651 multi-mode fiber
- G.652D single-mode fiber
- G.655 NZDS fiber for DWDM applications

- **Full range of protections**
- Water blocked
- Rodent resistant

Full range of applications
- Outdoor
- Aerial

Optional protections
- HDPE jacket
- Single jacket
- Dual jacket / single armor

Cable cut-away



Typical parameters

Number of fibers		Up to 288
Diameter	minor axes	11.6 mm (0.46 in)
	major axes	13.4 mm (0.53 in) to 23.5 mm(0.93)
Cable weight		370 kg/km (249 lbs/kft) to 620 kg/km (417 lbs/kft)
Max. bend radius		20 x cable O.D.
Max. working tension		13360 N (3000 lbf)
Operating temperature range		-40 °C / 70 °C (-40 °F / 158 °F)

Qualifications & approvals
REA PE-90
Bellcore Standards
ITU Standards
TIA/EIA Standards

1st ISSUE 2019

www.4SProducts.com

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

4SProducts
Optical Cables

Atmos

Technical Data Sheet

ezKore Loose Tube Optical Cables

NESC Heavy Conditions

Max. Span 152 m (500 ft.)

Gel-free buffer tube with 2-288f

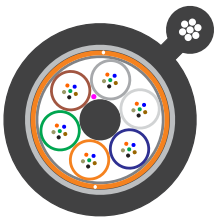
Steel Messenger Self Supporting Fig-8 Sheath

Single Jacket / Single Armor

Cable Properties		Diameter	Weight
002 - 060f	Jacket core diameter Jacket messenger diameter	13.4 mm (0.53 in) 11.6 mm (0.46 in)	370 kg/km (249 lbs/kft)
061 - 072f	Jacket core diameter Jacket messenger diameter	14.2 mm (0.56 in) 11.6 mm (0.46 in)	390 kg/km (262 lbs/kft)
073 - 096f	Jacket core diameter Jacket messenger diameter	16.1 mm (0.63 in) 11.6 mm (0.46 in)	431 kg/km (290 lbs/kft)
097 - 120f	Jacket core diameter Jacket messenger diameter	18.1 mm (0.71 in) 11.6 mm (0.46 in)	480 kg/km (323 lbs/kft)
121 - 192f	Jacket core diameter Jacket messenger diameter	19.6 mm (0.77 in) 11.6 mm (0.46 in)	499 kg/km (335 lbs/kft)
193 - 216f	Jacket core diameter Jacket messenger diameter	20.4 mm (0.80 in) 11.6 mm (0.46 in)	523 kg/km (351 lbs/kft)
217 - 240f	Jacket core diameter Jacket messenger diameter	21.5 mm (0.85 in) 11.6 mm (0.46 in)	556 kg/km (374 lbs/kft)
241 - 288f	Jacket core diameter Jacket messenger diameter	23.5 mm (0.93 in) 11.6 mm (0.46 in)	620 kg/km (417 lbs/kft)

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.
Max. tensile load	EIA/TIA-455-33 FOTP-33	13360 N (3000 lbf)

Environmental Performance	Test Procedure		Specification
Temperature	EIA/TIA-455-3A FOTP-3	Operation Installation Storage/Shipping	-40 to +70 °C (-40 to +158 °F) -20 to +70 °C (-04 to +158 °F) -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		1meter 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.

1st ISSUE 2019