

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

Dual Jacket / Single Armor

Application

Self supporting outdoor fiber optic cable in a figure 8 configuration for aerial installation on telecom poles. Designed for heavy duty applications and 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

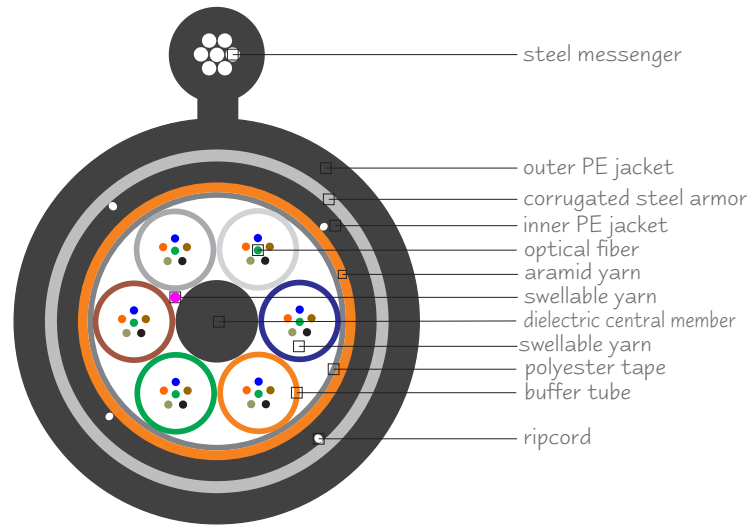
Full range of applications

- Outdoor
- Aerial

Optional protections

- HDPE jacket
- Single jacket
- Single 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	15.3 mm (0.60 in) to 25.5 mm(1.00)
Cable weight	424 kg/km (285 lbs/kft) to 718 kg/km (482 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)	

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

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Cable Properties	Diameter	Weight
002 - 060f	Jacket core diameter Jacket messenger diameter	424 kg/km (285 lbs/kft)
	15.3 mm (0.60 in) 11.6 mm (0.46 in)	
061 - 072f	Jacket core diameter Jacket messenger diameter	450 kg/km (302 lbs/kft)
	16.2 mm (0.64 in) 11.6 mm (0.46 in)	
073 - 096f	Jacket core diameter Jacket messenger diameter	498 kg/km (335 lbs/kft)
	18.1 mm (0.71 in) 11.6 mm (0.46 in)	
097 - 120f	Jacket core diameter Jacket messenger diameter	556 kg/km (374 lbs/kft)
	20.1 mm (0.79 in) 11.6 mm (0.46 in)	
121 - 192f	Jacket core diameter Jacket messenger diameter	578 kg/km (388 lbs/kft)
	21.5 mm (0.85 in) 11.6 mm (0.46 in)	
193 - 216f	Jacket core diameter Jacket messenger diameter	610 kg/km (410 lbs/kft)
	22.4 mm (0.88 in) 11.6 mm (0.46 in)	
217 - 240f	Jacket core diameter Jacket messenger diameter	645 kg/km (433 lbs/kft)
	23.5 mm (0.93 in) 11.6 mm (0.46 in)	
241 - 288f	Jacket core diameter Jacket messenger diameter	718 kg/km (482 lbs/kft)
	25.5 mm (1.00 in) 11.6 mm (0.46 in)	

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 -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	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.

