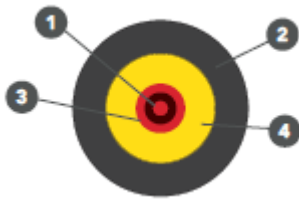


DROPTIC® LX030PUK 1FO G657A2

AERIAL DROP CABLE



LEGEND	
1	Fibre
2	Outer sheath
3	Tube
4	Aramid

The DROPTIC® LX030PUK optical cable enables effective FTTH deployments for connectivity applications within Single Dwelling Units (SDUs). This drop cable has been especially engineered for overhead installations (spans up to 70m) or for installing cable routes on facades in accordance with Openreach specification, and breaks at a force between 1200N and 1800N.

Thanks to its small diameter, the LX030PUK drop cable presents a good wind resistance. Its polyurethan outer sheath provide for improved mechanical performances, as well as for a good tensile strength.

the DROPTIC® LX030PU drop cable is compatible with Field Mountable Connectors.

PN	MODEL	PACKG
9999	DROPTIC® LX030PUK_1FO_G657A2	2000m drum(*)

(*) for other cable lengths, please contact us

FEATURES & BENEFITS

- Full compatible with Field Mountable connector
- Compatible with TELENCO® mini@ clamps
- PUR cable sheath: wear, tear and UV resistant
- High mechanical performances
- Integrated in a comprehensive FTTH solution including TELENCO® aerial & facade hardware and ELINE® transition box, customer terminal box (DTIO), fibre distribution box and optical telecommunications outlets

Fiber	Fully compliant with ITU G657A2
Buffered Fiber	Tight buffer diameter: 900µm Color: red
Cable reinforcement	Aramid yarns
Outer sheath	Diameter : 3.0mm Material: FR-TPU / Color: Black
Weight	Outdoor cable: 9 kg/km approx.
Cable marking	DROPTIC – LX030PUK 1FO G657A2 – batch number – metric pitch: 2 meters Marking : yellow

MECHANICAL AND ENVIRONMENTAL PERFORMANCES

Item	Test method	Performances
Tensile load	IEC 60794-1-21 E1 method	300 N, Cable strain < 0,5%, fiber strain <0,3%
Anchoring resistance	XPC 93-850-3-22 (IEC 60794-1-2 E1 method with clamps)	800N, no cable sliding
Breaking load	XPC 93-850-3-22(IEC 60794-1-2 E1 method with clamps)	1200 < F < 1800 N with mini@ clamp.
Crush	IEC 60794-1-21 E3 method	1000N / 100mm Reversibility checked at 2000 N
Kink performances Bending performances	IEC 60794-1-21 – E11 method IEC 60794-1-21 – E10 method	R = 5mm R = 12,5 mm
Temperature Cycling	IEC 60794-1-22 E3 method	-40°C / +70°C (storage) -20°C/+60°C (operation)

DROPTIC® BEND INSENSITIVE FIBRE

Low Bending Loss Fiber, compliant with ITU-T G657A2, NF EN 60793-2-50-B6_a2



Geometrical properties

Cladd diameter	125 $\mu\text{m} \pm 0.7 \mu\text{m}$
Cladding non circularity	$\leq 0.7\%$
Core Cladd concentricity	$\leq 0.5 \mu\text{m}$
Coating diameter	242 $\mu\text{m} \pm 5 \mu\text{m}$
Coating-Cladding concentricity	$\leq 12 \mu\text{m}$
Tensile proof test	>100 kpsi (0.69 GPa)

Mode Field Diameter

at 1310 nm	8.4 - 9.2 μm	8.4 - 9.2 μm
at 1550 nm	9.4 - 10.4 μm (typical)	9.4 - 10.4 μm

Macrobending Attenuation

Deployment Condition	1550 nm	1625 nm
Wavelength Induced Attenuation		
1 turn on a 7.5 mm radius mandrel	$\leq 0.5 \text{ dB}$	$\leq 1 \text{ dB}$
1 turn on a 10 mm radius mandrel	$\leq 0.1 \text{ dB}$	$\leq 0.2 \text{ dB}$
10 turns on a 15 mm radius mandrel	$\leq 0.03 \text{ dB}$	$\leq 0.1 \text{ dB}$

Wavelength (nm)	Max attenuation (dB/km)
1310	≤ 0.33
1550	≤ 0.22
1625	≤ 0.25

Attenuation vs wavelength

Wavelength Range	Wavelength reference	Max a difference (dB/km)
1285-1330	1310 nm	≤ 0.03
1525 - 1575	1550 nm	≤ 0.02

Chromatic Dispersion

Zero Dispersion Wavelength (λ_0)	1302 - 1324 nm
Zero Dispersion Slope (S0)	$\leq 0.092 \text{ ps/nm}^2 \cdot \text{km}$
Cut-off Wavelength (λ_{CC})	$\leq 1260 \text{ nm}$

Polarization Mode Dispersion (PMD)*

Fiber PMD Link Design Value	< 0.06 ps/vkm
Maximum Individual Fiber	< 0.2 ps/vkm
(* according IEC 60794-3, method 1, m=20, Q=0.01%)	