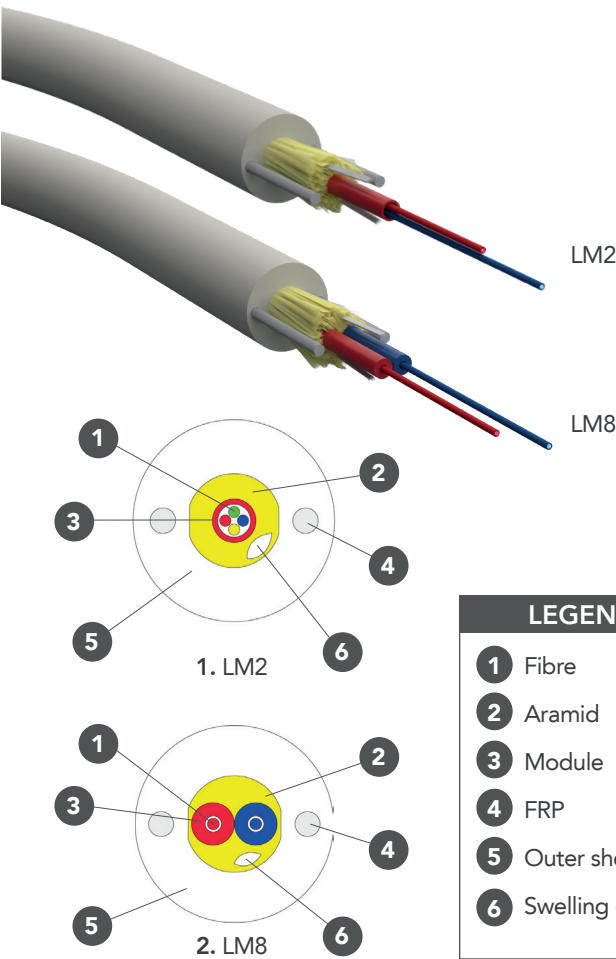


DROPTIC® LM2 & LM8

INDOOR/OUTDOOR DROP CABLES



DROPTIC® LM2 and LM8 are modular drop cable range solutions, ruggedly designed to meet all FTTH roll-out needs from distribution points to subscriber's premises. All dielectric, LM2 and LM8 can be installed indoor or outdoor, in SDUs or MDUs configurations. Built with complete longitudinal sealing, DROPTIC® LM2 and LM8 are used for duct cable laying on short distances, up to 50 meters. These drops are compatible with all indoor cable running techniques: by pulling, gluing or stapling. Thanks to their 2 FRP construction, LM2 and LM8 optical cables offer improved temperature performances. DROPTIC® LM2 and LM8 offer the same features but a different engineering design. While the LM2 is built with one tube for 1, 2 or 4FO (see picture 1), the LM8 offers a tube for each fibre strand (see picture 2) so to enable independent fibre management. They are both fully compliant with CPR standards.

DESIGNATION	PACKAGING
DROPTIC® drop cable indoor/outdoor LM2 1FO	250 meters drum*
DROPTIC® drop cable indoor/outdoor LM2 2FO	
DROPTIC® drop cable indoor/outdoor LM2 4FO	
DROPTIC® drop cable indoor/outdoor LM8 2FO	

*For other cable lengths, please contact us.

TECHNICAL CHARACTERISTICS

Cable type	LM2		LM8
Fibre type	Compliant with G657A2 ITU recommendations		
Fibre cores	1FO	4FO	2FO
Buffer	900µm tube		2 x 900µm tube
Outside dimensions	4.1mm		
Weight	13kg/km	15kg/km	14kg/km
Outer sheath material	LSZH - FR White RAL 9010		
Cable reinforcement	Aramid yarns, 2 FRP cores		
Cable marking	DROPTIC® – LM2 x FO G657A2 – batch number – metric DROPTIC® – LM8 2FO G657A2 – batch number – metric x is the fibre count Marking colour: yellow Pitch: every 2 meters		

FEATURES & BENEFITS

- One drop for indoor, outdoor, duct and facade FTTH roll-outs on short distances
- Wide operating temperature range
- Compatible with all type of cable installation techniques
- Alternative engineering design
- 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

MECHANICAL AND ENVIRONMENTAL REQUIREMENTS

Mechanical resistance requirements:

REQUIREMENT	COMPLIANCE	STANDARD
Tensile strength	400N	IEC 60794-1-2 - Method E1
Impact	3Nm: reversible and without sheath breakage. 5Nm: reversible	IEC 60794-1-2 - Method E4
Cut-through resistance	100N	IEC 60794-1-2 - Method E12
Static bending	R = 20mm	IEC 60794-1-2 - Method E11
Kink	R = 15mm	IEC 60794-1-2 - Method E10
Torsion	20 cycles ; L = 1m ; load = 25N ; $\pm 180^{\circ}$; $\Delta\alpha \leq 0.1\text{dB}$	IEC 60794-1-2 - Method E7
Crush	Final level = 15daN/cm ($\Delta\alpha \leq 0.1\text{dB}$) - reversibility checked at 20daN/cm	IEC 60794-1-2 - Method E3
Abrasion resistance of cable sheath	N = 1000 cycles ; F = 4N	IEC 60794-1-2 - Method E2A
Resistance of sheath holding	400N during 5 minutes	In house specification
Stiffness	Compliant	IEC 60794-1-2 - Method E17B
Friction	$f \leq 0.25$	In house specification

Environmental resistance requirements:

REQUIREMENT	COMPLIANCE	STANDARD
Temperature cycling	$\Delta\alpha \leq 0.1\text{dB/km}$ between -30°C and $+70^{\circ}\text{C}$ (1550nm) $\Delta\alpha$ reversible between -40°C and $+70^{\circ}\text{C}$ (1550nm)	IEC 60794-1-2 - Method F1
Thermal ageing	(14 days at 70°C) $\Delta\alpha \leq 0.2\text{dB/km}$ and reversible	In house specification
Fire resistance	CPR certified: Dca s2, d1, a1	IEC 60332-2-2
Resistance to UV radiation	Compliant	IEC 50289-4-17 - Method C
Chemical behaviour	Oil, Acids, bases and solvents resistant	IEC 60811-404 - IEC 60811-501
Water penetration	Compliant	IEC 60794-1-2 - Method F5

Telenco® reserves the right to modify present characteristics without previous notice.