



Last Mile Fan Out Internal Cable

4 or 12 Fibres, LSZH FR - 25m-250m

Application / Product Description

The Last Mile Fan Out Internal Cable is available in a pre-terminated LC/APC or SC/APC fanout design constructed using Grade B compliant connectors and a B2ca compliant fibre cable.

Designed to service four or twelve apartments within a multi-dwelling unit environment, the cable has been specifically chosen to facilitate rapid deployment for efficient customer connections.

The Last Mile Fan Out Internal Cable is designed to work with the HellermannTyton family of MDU solutions. The cable diameter (2.3mm for 4 fibres or 2.8mm for 12 fibres) is optimized for trouble-free installation above or below corridor ceilings and a range of adhesives and IET 7671 approved fire-proof clips and installation tools are available.

For the fanout design, each pre-connectorised tail is protected with a 900µm furcation tube, colour coded to the internal fibre. Each connector is situated 400mm from the cable's manifold for easy installation into the MDU range of enclosures.

Available in 4 different lengths: 25m, 50m, 100m or 250m. The 250m length is supplied on a spool for convenient deployment along corridors.

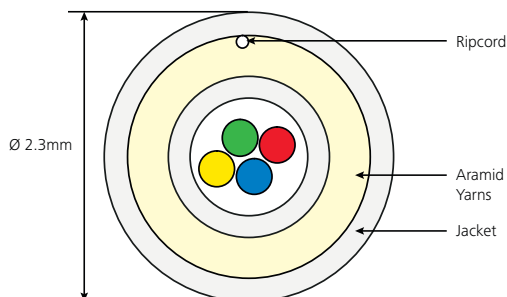
Technical Details:

- FO cable with central loose tube for optical subscriber access
- The cable is metal-free with a tensile strength of 250N
- The jacket is made of halogen-free, flame-retardant material according to IEC60332-1-2; IEC60332-3-24; IEC60754-1; IEC60754-2; IEC61034; EN50399 for use in public buildings with high personal risk and higher Euro fire class B2ca s1a d1 a1
- For use as a flame-retardant cable indoors
- The fibre optic cable exceeds the requirements of EN50173-1, ISO/IEC11801 and EN/IEC60794-2

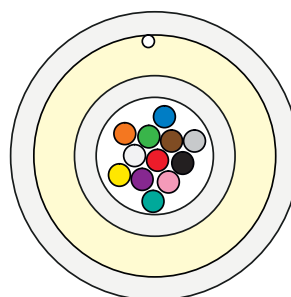
Features and Benefits:

- Colour coded fibres and transportation tubes
- LC/APC or SC/APC simplex connectors IEC 61753-1 Grade B compliant
- Operation and installation temperatures -10°C to 60°C
- Bend radius, 20xOD loaded (during installation) & 10xOD unloaded (permanent)
- Cable contains a rip cord for easy mid-span access
- Cable construction contains central easy-strip loose tube which isolates the fibres from the aramid yarns

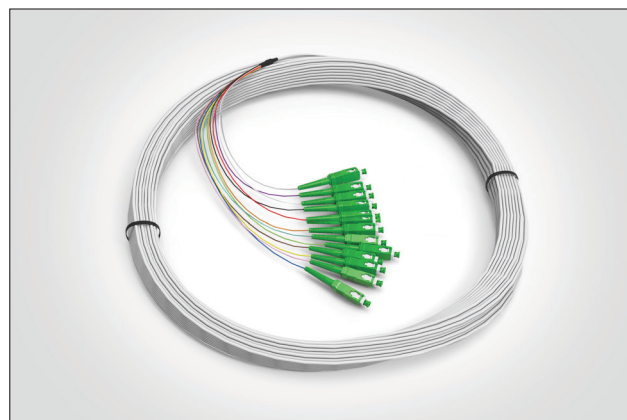
Technical Diagrams



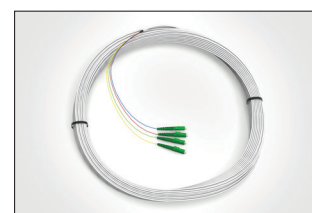
4 Fibre Cable Diagram.



12 Fibre Cable Diagram.



12 Fibre SC/APC SX LM Internal Cable.



4 Fibre LC/APC SX LM Internal Cable.

Technical Data

No. of Fibres		4 Fibres	12 Fibres
Fibre Type		IEC 6079-2-50 B6_a2 (G.657.A2)	
Jacket	Nominal Outer Diameter (mm)	2.3	2.8
	Material	LSZH	
	Colour	White RAL 9010	
Fire Load (MJ/km)		233	250
Cable Weight (kg/km)		7	10
Cable Reinforcement		Aramid yarns	
Colour Code		Blue, Orange, Green, Red, Grey, Yellow, Brown, Violet, Black, White, Pink, Aqua	



CPR Fire Properties

Characteristic	Values
Flame retardant (acc. EN/IEC 60332-3-25 acc. IEC/EN 60754-1/2)	CPR B2ca-s1a,d1,a1
Halogen free	acc. IEC/EN 61034-2
Low smoke	B2ca
Reaction-to-fire class (acc. EN 13501-6)	s1a
Smoke development class (acc. EN 13501-6)	d1
Euro class flaming droplets/particles (acc. EN 13501-6) Euro class acidity (acc. EN 13501-6)	a1

Mechanical Properties

Characteristic	Values
Crush	IEC 60794-1-21 E3 300 N/10cm
Max. tensile strength during installation	IEC 60794-1-21 E1 400 N
Kink	IEC 60794-1-21 E10 The cables do not form a kink when a loop is drawn together to a diameter 12 times the cable nominal diameter.
UV resistance	Low
Operation temperature*	-10 °C ~ +60 °C (min - max)
Min. Bend Radius (mm)	Dynamic 20xOD Static 10xOD

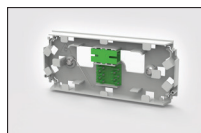
*Temperature range recommended for cable installation, operation and storage tested according to the IEC 60794-1-22 F1.

Part Numbers

Part Number	No. of Fibres	Length (m)	Connector Type	Description
LMFC-IA2-04LP40-025	4	25	LC/APC	MDU Fanout Cable Internal G.657.A2 04F LC/APC 400mm 25M
LMFC-IA2-04LP40-050		50		MDU Fanout Cable Internal G.657.A2 04F LC/APC 400mm 50M
LMFC-IA2-04LP40-100		100		MDU Fanout Cable Internal G.657.A2 04F LC/APC 400mm 100M
LMFC-IA2-04LP40-250		250		MDU Fanout Cable Internal G.657.A2 04F LC/APC 400mm 250M
LMFC-IA2-04SP40-025		25	SC/APC	MDU Fanout Cable Internal G.657.A2 04F SC/APC 400mm 25M
LMFC-IA2-04SP40-050		50		MDU Fanout Cable Internal G.657.A2 04F SC/APC 400mm 50M
LMFC-IA2-04SP40-100		100		MDU Fanout Cable Internal G.657.A2 04F SC/APC 400mm 100M
LMFC-IA2-04SP40-250		250		MDU Fanout Cable Internal G.657.A2 04F SC/APC 400mm 250M
LMFC-IA2-12LP40-025	12	25	LC/APC	MDU Fanout Cable Internal G.657.A2 12F LC/APC 400mm 25M
LMFC-IA2-12LP40-050		50		MDU Fanout Cable Internal G.657.A2 12F LC/APC 400mm 50M
LMFC-IA2-12LP40-100		100		MDU Fanout Cable Internal G.657.A2 12F LC/APC 400mm 100M
LMFC-IA2-12LP40-250		250		MDU Fanout Cable Internal G.657.A2 12F LC/APC 400mm 250M
LMFC-IA2-12SP40-025		25	SC/APC	MDU Fanout Cable Internal G.657.A2 12F SC/APC 400mm 25M
LMFC-IA2-12SP40-050		50		MDU Fanout Cable Internal G.657.A2 12F SC/APC 400mm 50M
LMFC-IA2-12SP40-100		100		MDU Fanout Cable Internal G.657.A2 12F SC/APC 400mm 100M
LMFC-IA2-12SP40-250		250		MDU Fanout Cable Internal G.657.A2 12F SC/APC 400mm 250M

Associated Products

See datasheets for more information. Other configurations available upon request.



Internal Corridor Box (ICB)
LC/APC or C/APC SX Adaptors



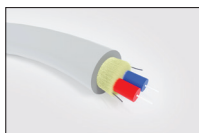
Faint Fibre Outlet (FFO)
SC/APC SX Adaptor



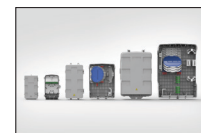
Fibre Wall Outlet (FWOA)
SC/APC SX Adaptors



Last Mile Internal Cable
Bare End 500m



Ruggedised Internal Cable
4.8mm OD
1, 2 or 4 Fibres



MDU Range
S1SX, S1, S2/S2XL, S3, S4, S5