

OS2 SM Fiber 9/125µm 12-288 Core External Multi Loose Tube HDPE Cable

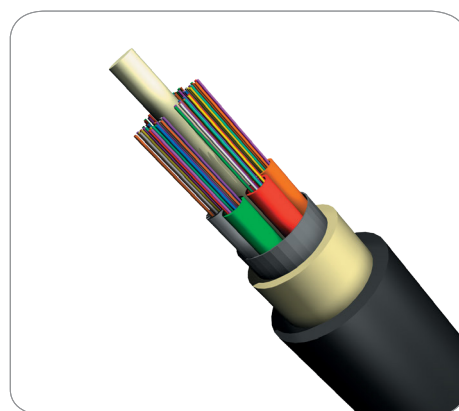
DESCRIPTION

The small diameter 5.3mm to 12.2mm allows high core count fibres to be blown into the access network down micro-duct with an inner diameter as small as 10 to 18 mm.

The MICROLINK Blown fiber has been designed for blowing into the Enbeam Micro-duct system. The cable is constructed from multiple gel filled loose tubes around a central strength member, overlaid with water blocking yarn and covered with a High Density Polyethylene (HDPE) outer jacket.

FEATURES AND BENEFITS

- ✓ Fiber type Single mode 9/125µm
- ✓ Number of Cores 12-288
- ✓ Category OS2
- ✓ Armouring protection
- ✓ Rodent resistant, Water Resistant & UV Resistant
- ✓ Outer sheath colour Black
- ✓ Reaction-to-fire class - to EN 13501-6 Fca
- ✓ Outer diameter approx. 10.5 mm
- ✓ High Density Polyethylene (HDPE) outer jacket



STANDARDS

ITU.T G.652D / G.657A/B
IEC 60332-1-2, IEC 60754-1,2 & IEC 61034-2



Indoor



Outdoor



FTTx



Halogen free



Air blown



Duct

COLOUR CODING (AS PER TIA-598-C)



For fiber core counts above 12 the colour sequence is repeated with the addition of a mark every 70mm for cores 13-24 and two marks for 25-36 and so on

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FIBER SPECIFICATIONS

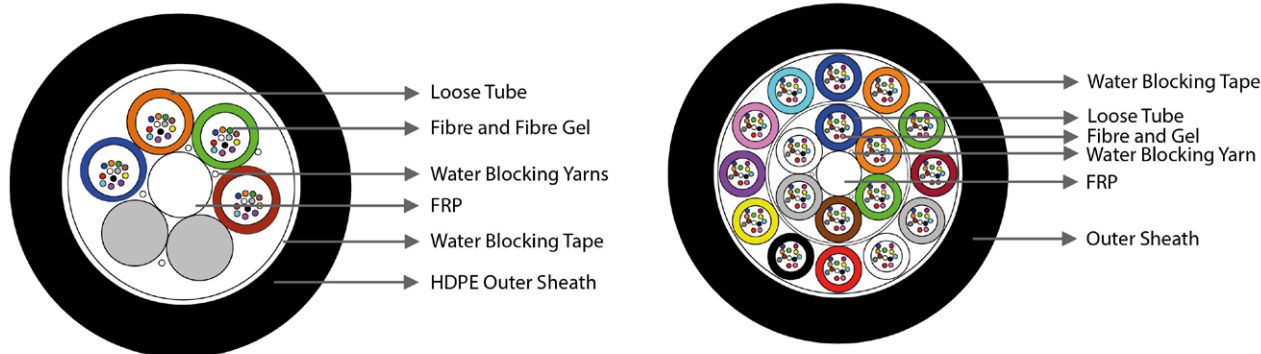
FEATURES	UNIT	OS2
Attenuation	@1310nm	≤0.38 dB/km
	@1550nm	≤0.21 dB/km
Chromatic Dispersion Coefficient	1285nm – 1330nm	≤3.5ps/km·nm
	@1550nm	≤18.0ps/km·nm
Zero Dispersion Wavelength, λ ₀		1300-1324nm
Zero Dispersion Slope		≤0.092 ps/(km·nm ²)
Cut-off Wavelength, λ _{cc}		≤ 1260 nm
Polarisation Mode Dispersion	Individual fiber	≤0.2ps/√Km
	Design link value (M=20, Q=0.01%)	≤0.1ps/√Km
Cladding Diameter		125.0±1.0μm
Cladding Non-circularity		≤1.0%
Primary Coating Diameter		250±15μm
Core Concentricity Error		≤0.6μm
Coating – Cladding Concentricity Error		≤12μm
Fiber Curl Radius		≥4m
Mode Field Diameter	@1310nm	9.2±0.4μm
Point discontinuity		≤0.05db
Proof Stress Level		≥100kpsi (0.69 GPa)
Coating strip force	Peak	1.3-8.9N
Cable weight (kg/km)	12-24 core	55.0 (nominal)
	48-72 core	55.0 (nominal)
	96-core	80.0 (nominal)
	144-core	130.0 (nominal)
	192-core	145.0 (nominal)
	288-core	170.0 (nominal)

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CABLE SPECIFICATIONS

FEATURES	UNIT	VALUES
Number of loose tubes/fillers	12-core	1/5
	24-core	2/4
	48-core	4/2
	72-core	6/0
	96-core	8/0
	144-core	12/0
	192-core	16/2
	288-core	24/0
Embedding strength member	Type	FRP
Loose tube filling compound		Jelly
Water blocking material		Water blocking yarn + water blocking tape
Outer sheath	Material	HDPE
Tensile strength		2000 N
Crush resistance		2000 N
Minimum bending radius		20D

PRODUCT DIAGRAM



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ORDER INFORMATION

PART NUMBER	DESCRIPTION
MK-MLT12C100SM	9/125μm (OS1/2), MLT, 12 Core Singlemode Universal Multi Loose Tube Cable
MK-MLT24C100SM	9/125μm (OS1/2), MLT, 24 Core Singlemode Universal Multi Loose Tube Cable
MK-MLT48C100SM	9/125μm (OS1/2), MLT, 48 Core Singlemode Universal Multi Loose Tube Cable
MK-MLT72C100SM	9/125μm (OS1/2), MLT, 72 Core Singlemode Universal Multi Loose Tube Cable
MK-MLT96C100SM	9/125μm (OS1/2), MLT, 96 Core Singlemode Universal Multi Loose Tube Cable
MK-MLT144C100SM	9/125μm (OS1/2), MLT, 144 Core Singlemode Universal Multi Loose Tube Cable
MK-MLT192C100SM	9/125μm (OS1/2), MLT, 192 Core Singlemode Universal Multi Loose Tube Cable
MK-MLT288C100SM	9/125μm (OS1/2), MLT, 288 Core Singlemode Universal Multi Loose Tube Cable

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