

OS2 SM Fiber 9/125µm 48-288 Core Armoured Multi Loose Tube Cable

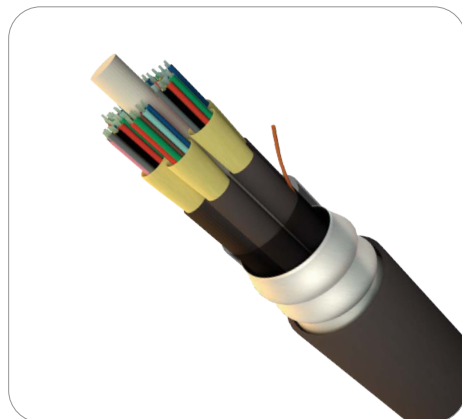
DESCRIPTION

MICROLINK multi loose cables are constructed from multiple gel filled loose tubes around a central strength member, overlaid with water blocking yarn and a water blocking tape surrounded by a corrugated steel tape and covered with a High Density Polyethylene (HDPE) outer jacket, allowing high core count fibres to be installed into the access network from 24 to 288 fibre core counts.

The corrugated steel tape (CST) OS2 9/125µm armoured external multi loose tube optical fiber cables have been designed specifically for applications requiring a high degree of mechanical protection. The singlemode fibre is G.652.D compliant low water peak grade and offers OS2 performance and OS1 backwards compatibility.

FEATURES AND BENEFITS

- ✓ Fiber type Single mode 9/125µm
- ✓ Number of Cores 48-288
- ✓ Category OS2
- ✓ Armouring protection
- ✓ Rodent resistant
- ✓ Outer sheath colour Black
- ✓ Reaction-to-fire class - to EN 13501-6 Fca
- ✓ Outer diameter approx. 10.5 mm



STANDARDS

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



Indoor



Outdoor



Halogen free



Armoured



Direct burial

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	@1310 nm	≤ 0.36 dB/km
	@1550 nm	≤ 0.23 dB/km
Chromatic Dispersion	1285 - 1330 nm	≤ 3.5 ps/nm.km
	1550 nm	≤ 18 ps/nm.km
Zero Dispersion Wavelength		1300 - 1324 nm
Zero Dispersion Slope		≤ 0.092 ps/nm ² .km
Polarisation Mode Dispersion		≤ 0.2 ps/ $\sqrt{\text{km}}$
Cut-off Wavelength		≤ 1260 nm
Mode Field Diameter	@1310 nm	9.2 ± 0.4 μ m
	@1550 nm	10.4 ± 0.5 μ m
Core Cladding Concentricity Error	48-144 core	≤ 0.6 μ m
	288-core	≤ 0.5 μ m
Cladding Diameter		125 ± 0.7 μ m
Cladding Non-circularity		≤ 0.7 %
Coating Diameter (Uncoloured)	48-144 core	245 ± 5 μ m
	288-core	245 ± 10 μ m

CABLE SPECIFICATIONS

FEATURES	UNIT	VALUES
Cable weight (kg/km)	48-core	125.0 ± 15
	72-core	125.0 ± 15
	96-core	150.0 ± 15
	144-core	225.0 ± 15
	288-core	280.0 ± 25



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CABLE SPECIFICATIONS

FEATURES	UNIT	VALUES
Tensile Strength	48-core	2000 N
	72-core	2000 N
	96-core	2670 N
	144-core	3500 N
	288-core	2700 N
Crush Resistance		2000 N
Impact		15 N m
Torsion		$\pm 180^\circ$
Temperature performance	Installation	-20°C to +70°C
	Operation	-20°C to +70°C
	Storage	-20°C to +70°CN
Loose tube	Material	PBT
Central strength member dimensions	24-core	1.2/1.9 \pm 0.1 mm
	48-core	1.5/2.2 \pm 0.1 mm
	72-core	1.5/2.2 \pm 0.1 mm
	96-core	1.6/2.2 \pm 0.1 mm
	144-core	1.5/2.2 \pm 0.1 mm
	288-core	1.6/2.2 \pm 0.1 mm
Loose Tube ID/OD	24-core	2.0 \pm 0.1 mm
	48-core	2.3 \pm 0.1 mm
	72-core	2.3 \pm 0.1 mm
	96-core	2.5 \pm 0.1 mm
	144-core	3.5 \pm 0.1 mm
	288-core	3.0 \pm 0.1 mm



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CABLE SPECIFICATIONS

FEATURES	UNIT	VALUES
Central strength member type	Type	FRP Rod
Moisture barrier		Water Swellable Yarn
Core wrapping		Water Swellable Yarn
Armoring	Material	ECCS Tape
Outer Sheath	Thickness	1.5 mm (Nominal)
	Material	HDPE
Ripcord	Number	2
	Material	Polyester
Bending Radius		20D

ORDER INFORMATION

PART NUMBER	DESCRIPTION
MK-MLT48C100SM-AR	9/125µm (OS1/2) LT AMOURED 48 Core, Singlemode, Multi Loose Tube Cable
MK-MLT72C100SM-AR	9/125µm (OS1/2) LT AMOURED 72 Core, Singlemode, Multi Loose Tube Cable
MK-MLT96C100SM-AR	9/125µm (OS1/2) LT AMOURED 96 Core, Singlemode, Multi Loose Tube Cable
MK-MLT144C100SM-AR	9/125µm (OS1/2) LT AMOURED 744 Core, Singlemode, Multi Loose Tube Cable
MK-MLT288C100SM-AR	9/125µm (OS1/2) LT AMOURED 288 Core, Singlemode, Multi Loose Tube Cable

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