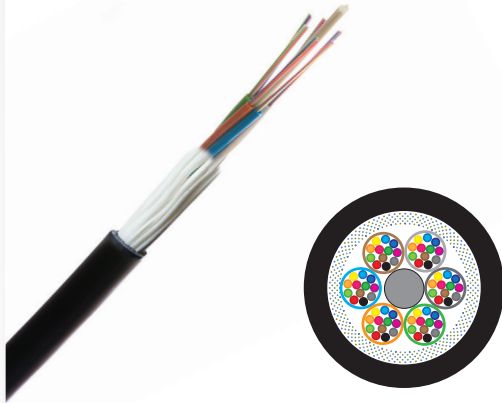


# Universal multi loose tube cables



## features

- fully dielectric construction, halogen-free sheath
- tensile elements made of glass yarns
- central fiberglass tensile element
- primary protection of 250 µm
- tubes filled with water blocking gel
- suitable for outdoor as well as for indoor environment
- resistant to moisture, water and UV radiation
- partial rodent protection (glass rodent protection - GRP)
- ideal for horizontal campus duct installations using blowing and pulling technique

## 48 fibers

P/N: **MLT048SM** OS2 singlemode 9/125 µm (ITU-T G.652.D)



## 96 fibers

P/N: **MLT096SM** OS2 singlemode 9/125 µm (ITU-T G.652.D)



## mechanical properties

number of fibres		48	96
Nominal cable diameter		11,3 mm	13,5 mm
Nominal sheath thickness		1,5 mm	1,5 mm
Cable weight netto		90 kg/km	155 kg/km
Min. bending radius	installation	170 mm	203 mm
	operation	113 mm	135 mm
Tensile strength	installation	2100 N (210 kg)	2100 N (210 kg)
	operation	700 N (70 kg)	700 N (70 kg)
Impact		15 J (Nm)	
Compressive strength		2000 N/100 mm	
Temperature range	installation	-15°C to 40°C	
	operation	-30°C to 60°C	
Properties in case of fire		IEC 60332-1 / EN 50265	
		IEC 61034 / EN 50268	
		IEC 60754-2 / EN 50267	

## ibre properties

Cabled optical fibre (ISO/IEC 11801)	<b>OS2</b>
IEC 60793-2	50-B1.3
ITU-T	G.652D
Attenuation @ 850 / 1300 nm (dB/km)	-

Bandwidth (850 / 1300 nm)	-
EMBc @ 850 (MHz.km)	-
Attenuation @ 1310 / 1550 nm (dB/km)	$\leq 0,38 / \leq 0,25$
Dispersion @ 1310 / 1550 nm (ps/nm.km)	$\leq 3,5 / \leq 18$
Numerical Aperture	-
Refractive index @ 850 / 1300 nm	-
Refractive index @ 1310 / 1550 nm	1,467/1,468
Core diameter ( $\mu\text{m}$ )	-
MFD ( $\mu\text{m}$ )	9,0
Core / cladding concentricity error ( $\mu\text{m}$ )	$\leq 0,6$
Overall coating diameter ( $\mu\text{m}$ )	245 +/- 10