

# Outdoor multi loose tube cables



## features

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

### 24 fibers

**P/N: MLTE024SM** OS2 singlemode 9/125 µm (ITU-T G.652.D)



### 48 fibers

**P/N: MLTE048SM** OS2 singlemode 9/125 µm (ITU-T G.652.D)



### 72 fibers

**P/N: MLTE072SM** OS2 singlemode 9/125 µm (ITU-T G.652.D)



### 96 fibers

**P/N: MLTE096SM** OS2 singlemode 9/125 µm (ITU-T G.652.D)



## mechanical properties

number of fibres		24	48	72	96
Nominal cable diameter		10,8 mm	11,3 mm	11,3 mm	12,9 mm
Nominal sheath thickness		1,5 mm	1,5 mm	1,5 mm	1,5 mm
Cable weight netto		80 kg/km	90 kg/km	90 kg/km	115 kg/km
Number of tubes x number of yarns		2 x 12	4 x 12	6 x 12	8 x 12
Min. bending radius	installation	162 mm	170 mm	170 mm	194 mm
	operation	108 mm	113 mm	113 mm	129 mm
Tensile strength	installation	2100 N (210 kg)	2100 N (210 kg)	2100 N (210 kg)	2100 N (210 kg)
	operation	700 N (70 kg)	700 N (70 kg)	700 N (70 kg)	700 N (70 kg)
Impact		20 J (Nm)			
Compressive strength		3000 N/100 mm			
Temperature range	installation	-15°C to 40°C			
	operation	-30°C to 60°C			

## fibre 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