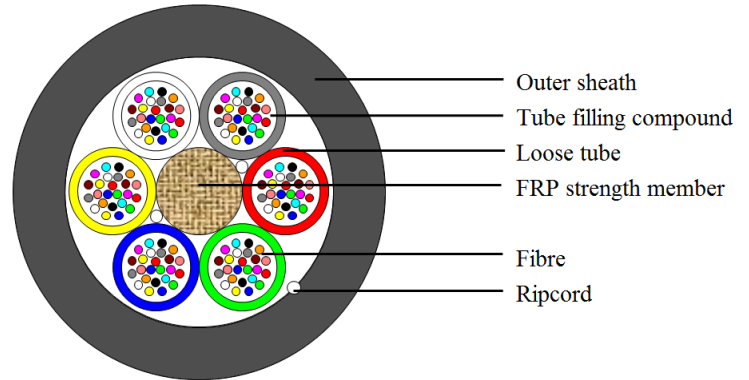


# FIBER OPTIC CABLE - MicroCable - Multitube serie TOL6D 144 6(24 SMBI A1)T/E

## GENERAL FEATURES

- Multi-loose cable , 6 elements & Dielectric Central member and support
- Upto 144 fibers , 24 fibers diam.250µm in each micro loose tube
- Dual series fiber colours with tag 12+12
- Thin Central Member
- Thin loose tube diameter 2,1mm using standard coating fiber 250µm
- Loose tube coloured
- Easy to allocate into splice tray 24 based
- Thin outer sheath
- Can be blow into 10mm inner tubes 10/12 & 10/14mm
- External sheath is HDPE Black to best sun U.V. resistance



## Mechanical and Environmental properties

Test	Value	Unit	Method / Note	Fibre colour coding			
				First group		Second group	
Cable outer diameter	7,3 ± 0,2	mm	EN 60811-203				
Cable weight	42	kg/km		1 Red	7 Brown	1 Red/Black Tag	7 Brown/Black Tag
Outer jacket thickness (approx)	0,5	mm		2 Green	8 Purple	2 Green/Black Tag	8 Purple/Black Tag
Loose tube diameter	2,1	mm		3 Blue	9 Aqua	3 Blue/Black Ring	9 Aqua/Black Tag
Central strength member diameter	1,25	mm		4 Yellow	10 Black	4 Yellow/Black Tag	10 Natural/Black Tag
Max. tensile strength	750 (250*)	N	EN 60794-1-21-E1	5 White	11 Orange	5 White/Black Tag	11 Orange/Black Tag
Crush resistance test	500 (200*)	N	EN 60794-1-21-E3	6 Grey	12 Pink	6 Grey/Black Tag	12 Pink/Black Tag
Bending radius	10 / 20	O.D.	Static / Dynamic	<b>Tube colour coding</b>			
* = Long Term				1	Red		
Temperature range	Installation	-10 to + 50	°C	2	Green		
	Operation	-30 to + 70	°C	3	Blue		
	Storage&Trasp.	-30 to + 70	°C	4	Yellow		
Sheath material	HDPE			5	White		
Sheath colour	Black			6	Grey		
Fire properties-Flammability	NONE		Outdoor use only				

## FIBER TYPE

### SINGLE-MODE ITU-T G.657.A1-250µm

Cladding Diameter	125,0 ± 0,7 µm	Att. @ 1625 nm (typical / maximum)	0,23 / 0,26 dB/km	Cable cut-off wavelength	≤ 1260 nm
Cladding Non-Circularity	≤ 0,7%	Macro-bend loss (10 turns, 15mm radius, 1550nm)	≤ 0,25 dB	P.M.D. individual fiber	≤ 0.2 ps/√km
Core Concentricity error	≤ 0,5 µm	Point discontinuity	0.05dB	Group Refractive Index	
Coating Diameter	245 ± 5 µm (no colour) 250 ± 15 µm (coloured)	Zero dispersion wavelength	1300 – 1324 nm	@ 1310 nm	1,466
Coating –Cladding Concentricity	≤ 12 µm	Zero dispersion slope	≤ 0.092ps/(nm2-km)	@ 1550 nm	1,467
Att. @ 1310 nm (typical / maximum)	0,35 / 0,36 dB/km	Chromatic dispersion @ 1285nm-1340nm	≤ 3.4ps/nm/km	Mode Field Diameter	
Att. @ 1383 nm (typical / maximum)	0,34 / 0,35 dB/km	Chromatic dispersion @ 1550nm	≤ 18 ps/nm/km	@ 1310 nm	8,8 ± 0,4 µm
Att. @ 1550 nm (typical / maximum)	0,21 / 0,22 dB/km	Chromatic dispersion @ 1625nm	≤ 22 ps/nm/km	@ 1550 nm	9,2 ± 0,5 µm