

TIGHT BUFFER WATER BLOCKED FIBER OPTIC CABLE



FEATURES

- Tight buffer 900µm optical fiber
- Multimode 62.5/125 OM1, 50/125 OM3 & singlemode 9/125 G657.A2
- 2, 4, 8, 12 & 24 fibers
- Indoor / Outdoor, aramid yarns
- Halogen free outer sheath, UV stabilised (LSZH, standard conditions)
- Flame retardant (IEC 60332-1) & Fire retardant (IEC 60332-3)
- Water-blocking: swellable tread
- IEC 60794-2-20 compliant with mechanical and environment performances
- Colour: green (RAL6018)

CABLE PERFORMANCES

	2 FIBERS	4 FIBERS	8 FIBERS	12 FIBERS	24 FIBERS
Temperature	Operating				
	Storage				
	Installation				
Maximum pulling force (N)	325	440	680	900	1400
Crush resistance (N/100mm)	2000				
Min. bending radius (mm)	50				60
Fire compliant	IEC 60332-1 / IEC 60332-3				
Nominal weight (kg/km)	21	26	35	45	65
Nominal diameter (mm)	4,5	5	6	6,5	8

OPTICAL PERFORMANCES

	OM1	OM3
Attenuation @ 850/1300nm (dB/km)	$\leq 3.2 / \leq 1.0$	$\leq 3.0 / \leq 1.0$
Band width @ 850/1300nm (MHz/km)	$\geq 200 / \geq 600$	$\geq 1500 / \geq 500$
Refractive index @ 850nm	1.496	1.482
Refractive index @ 1300nm	1.491	1.477

	G657.A2
Attenuation @ 1310/1550nm (dB/km)	$\leq 0.38 / \leq 0.23$
Band width @ 1310/1550nm (MHz/km)	$\geq 10\ 000$
Refractive index @ 1310nm	1.467
Refractive index @ 1550nm	1.468

G657 PROPERTIES

Cladding diameter (μm)	125 +/-0,7
Core (MDF) - cladding concentricity error (μm)	$\leq 0,5$
Primary coating diameter (μm)	242 +/-7
Strip force (peak) (N)	$1.2 \leq F_{\text{peak strip}} \leq 8.9$
Chromatic dispersion coefficient (ps/km.nm)	
In the interval 1285/1330nm	$\leq 3,7$
At 1550nm	$\leq 18,5$
At 1625nm	≤ 23
Cut-off wavelength (λ_{cc} nm)	≤ 1260
Mode field diameter at 1310nm (μm)	8,8 +/-0,4
Mode field diameter at 1550nm (μm)	9,8 +/-0,5
Macro bending loss (dB)	
10 turns on a mandrel R=15mm @1550nm	$\leq 0,03$
1 turn on a mandrel R=7,5mm @1550nm	$\leq 0,5$
Polarisation mode dispersion (PMD) coefficient, cabled ps/vkm	$\leq 0,1$

PART NUMBERS

E-NR	DESCRIPTION			
4989507	2 FO	OM1 62,5/125 μm	TB water blocked indoor / outdoor	LSZH
4989517	4 FO	OM1 62,5/125 μm	TB water blocked indoor / outdoor	LSZH
4989527	8 FO	OM1 62,5/125 μm	TB water blocked indoor / outdoor	LSZH
4989537	12 FO	OM1 62,5/125 μm	TB water blocked indoor / outdoor	LSZH
4989547	24 FO	OM1 62,5/125 μm	TB water blocked indoor / outdoor	LSZH
4989607	2 FO	OM3 50/125 μm	TB water blocked indoor / outdoor	LSZH
4989617	4 FO	OM3 50/125 μm	TB water blocked indoor / outdoor	LSZH
4989627	8 FO	OM3 50/125 μm	TB water blocked indoor / outdoor	LSZH
4989637	12 FO	OM3 50/125 μm	TB water blocked indoor / outdoor	LSZH
4989647	24 FO	OM3 50/125 μm	TB water blocked indoor / outdoor	LSZH
4989557	2 FO	G657 9/125 μm	TB water blocked indoor / outdoor	LSZH
4989567	4 FO	G657 9/125 μm	TB water blocked indoor / outdoor	LSZH
4989577	8 FO	G657 9/125 μm	TB water blocked indoor / outdoor	LSZH
4989587	12 FO	G657 9/125 μm	TB water blocked indoor / outdoor	LSZH
4989597	24 FO	G657 9/125 μm	TB water blocked indoor / outdoor	LSZH

YOUR POINT OF CONTACT