

# Armada™ DGBTB Fibre Optic Cable

Halogen Free • Flame retardant • SHF-1



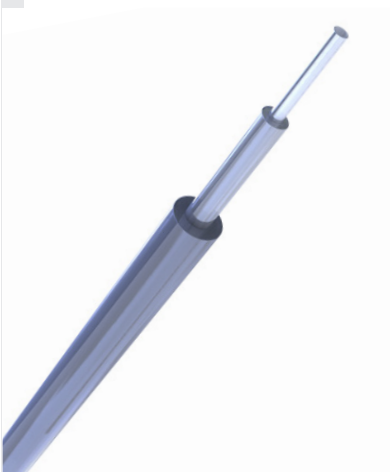
Cable Construction		Mechanical Characteristics*	
Tight coating:	900 ± 50 µm tight buffered optical fibre	Bending radius (min.)	long term 15 x Ø (no load)
Colour Code:	to IEC 60304		short term 25 x Ø (load)
Strength member:	Glass fibre yarns (swellable for longitudinal watertightness)	Crush resistance	2000 N/10cm
Rip cord:	1 x under jacket	Impact resistance	3 impacts (w/20N.m)
Inner Jacket:	LSZH FireFighter™	<b>Thermal Characteristics*</b>	
Armour:	DataGuard™ Galvanised steel wire braid (GSWB)	Temperature range	Storage -40° C to +60° C
Outer Jacket:	LSZH FireFighter™SHF-1, UV-Stabilised		Installation -5° C to +40° C
			Operating -20° C to +50° C
		<b>Fire behaviour*</b>	
		Halogen free	acc. to IEC 60754-2
		Flame retardant	acc. to IEC 60332-1

\*of cable without armour and additional jacket

Part Number	No. of fibres	Ø of Jacket (Inner / Outer) (mm)	Tensile Strength (N)	Colour
2410*044TB-01	4	5.5 / 8.47 ± 0.5	1000	Black / Black
2410*084TB-01	8	6.5 / 9.47 ± 0.5	1400	Black / Black
2410*124TB-01	12	7.3 / 10.27 ± 0.5	1600	Black / Black
2410*244TB-01	24	10.4 / 13.37 ± 0.5	2900	Black / Black

\*denotes fibre type required 1 = 62.5/125 | 2 = 50/125 | 8 = 9/125

# Optical Characteristics



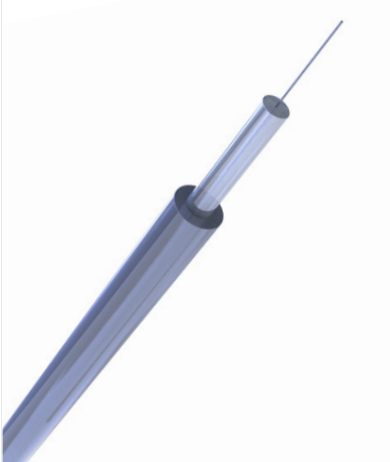
## 62.5/125 OM1 multi-mode graded-index optical fibres acc. to IEC 60793

Fibre Type	Mode-Field Diameter (µm)	Wavelength (nm)	Attenuation average/ max. (dB/km)	Bandwidth (MHz·km)	Ethernet Performance (m)		Num. Aperture (µm)	Refr. Index
					1 GBE	10 GBE		
62.5/125 OM1	62.5 ± 2.5 125 ± 1	850	2.7 / 3.2	≥ 200	275	33	0.275 ± 0.015	1.495
		1300	0.6 / 1.1	≥ 600	550	n.a		



## 50/125 OM2 multi-mode graded-index optical fibres acc. to IEC 60793

Fibre Type	Mode-Field Diameter (µm)	Wavelength (nm)	Attenuation average/ max. (dB/km)	Bandwidth (MHz·km)	Ethernet Performance (m)		Num. Aperture (µm)	Refr. Index
					1 GBE	10 GBE		
50/125 OM2	50 ± 2.5 125 ± 1	850	2.3 / 2.8	≥ 600	600	82	0.20 ± 0.015	1.481
		1300	0.6 / 0.9	≥ 1200	600	n.a		



## 9/125 G652D single-mode matched-cladded optical fibre acc. to ITU

Fibre Type	Mode-Field Diameter (µm)	Wavelength (nm)	Attenuation average/max. (dB/km)	Dispersion (ps/(nm·km))	PMD (ps/km)	Cable Cut-off Wavelength (nm)
9/125 G652D	9.2 ± 0.4 125 ± 0.7	1310	0.32 / 0.40	≤ 3.5	≤ 0.2	≤ 1260
		1550	0.21 / 0.30	≤ 18		