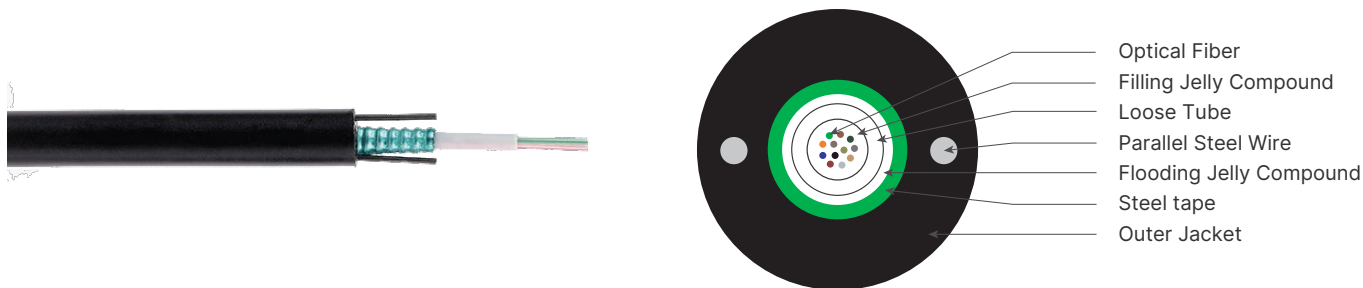


ODTLZ Series

Unitube Outdoor 2-24 Cores Fiber Optic Cable



Single Mode

Item		Unit	G. 657A1	G. 657A2	G.652D
Mode field diameter	1310nm	μm	8.6 ± 0.4	8.6 ± 0.4	9.2 ± 0.4
	1550nm	μm	-	-	10.4 ± 0.8
Cladding diameter		μm	125.0 ± 0.7	125.0 ± 0.7	125.0 ± 0.7
Cladding non-circularity		%	≤1.0	≤1.0	≤1.0
Core/cladding concentricity error		μm	≤0.5	≤0.5	≤0.6
Coating diameter		μm	245 ± 10	245 ± 10	245 ± 10
Coating/cladding concentricity error		μm	≤12.5	≤12.5	≤12.5
Cable cut-off wavelength		nm	≤1260	≤1260	≤1260
Attenuation Coefficient	1310nm	dB/km	≤0.4	≤0.4	≤0.4
	1550nm	dB/km	≤0.3	≤0.3	≤0.3
Macro-bend loss (1 turn, 10mm radius)	1550nm	dB/km	≤0.75	≤0.4	-
	1625nm	dB/km	≤1.5	≤0.8	-
Proof stress level		kpsi	≥100	≥100	≥100

Multi Mode

Item		Unit	OM1	OM2	OM3	OM4
Core diameter		μm	62.5 ± 2.5	50 ± 2.5	50 ± 2.5	50 ± 2.5
Cladding diameter		μm	125.0 ± 1.0	125.0 ± 1.0	125.0 ± 1.0	125.0 ± 1.0
Cladding non-circularity		%	≤1.0	≤1.0	≤1.0	≤1.0
Core/cladding concentricity error		μm	≤1.5	≤1.5	≤1.5	≤1.5
Coating diameter		μm	245 ± 10	245 ± 10	245 ± 10	245 ± 10
Coating/cladding concentricity error		μm	≤12	≤12	≤12	≤12
OFL Bandwidth	850nm	MHz-km	≥160	≥500	≥1500	≥3500
	1300nm	MHz-km	≥500	≥500	≥500	≥500
Attenuation Coefficient	850nm	dB/km	≤3.5	≤3.5	≤3.5	≤3.5
	1300nm	dB/km	≤1.5	≤1.5	≤1.5	≤1.5
Proof stress level		kpsi	≥100	≥100	≥100	≥100

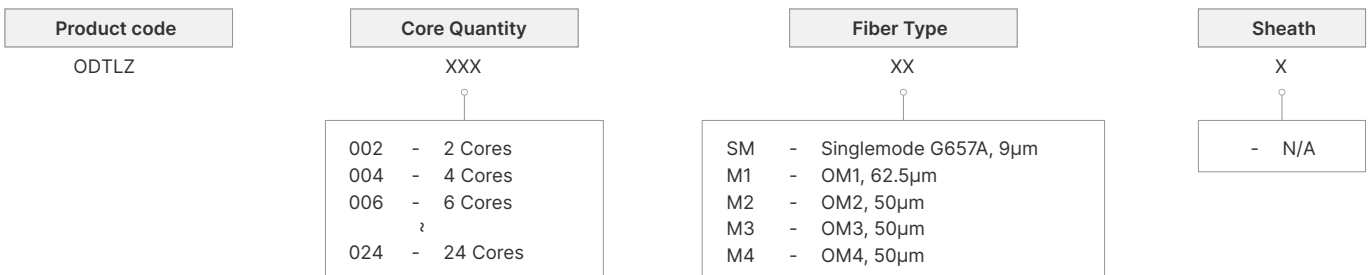
Cable Performance

Fiber color	Full color spectrum (Natural color instead of white)
Loose tube material	PBT
Loose tube color	Natural color
Armoured Material	Plastic coated steel strip
Reinforced Material	Phosphating steel wire
Outer jacket material	MDPE
Outer jacket color	Black
Min. bending radius	Static: 10 times cable diameter Dynamic: 20 times cable diameter
Repeating bending	Load: 150N; number of cycles: 30 No obvious addition attenuation, no fiber break and no cable damage.
Tensile performance	1500N (short term)
Crush	1000N/100mm (short term)
Operation temperature	-20°C + 60°C (IEC 60794-1-2 F1)

Dimensions of cable constructions

Fiber Count	Structure	Fibers per tube	Loose tube diameter (mm)	Wire diameter (mm)	Nominal thickness of outer jacket (mm)	Cable diameter (mm)	Cable weight (kg/km)
2	Unitube	2	2.4±0.1	1.0	2.3	8.3±0.5	70
4	Unitube	4	2.4±0.1	1.0	2.3	8.3±0.5	70
6	Unitube	6	2.4±0.1	1.0	2.3	8.3±0.5	70
8	Unitube	8	2.4±0.1	1.0	2.3	8.3±0.5	70
10	Unitube	10	2.4±0.1	1.0	2.3	8.3±0.5	71
12	Unitube	12	2.4±0.1	1.0	2.3	8.3±0.5	71
14	Unitube	14	3.2±0.1	1.0	2.3	9.1±0.5	83
16	Unitube	16	3.2±0.1	1.0	2.3	9.1±0.5	83
18	Unitube	18	3.2±0.1	1.0	2.3	9.1±0.5	83
20	Unitube	20	3.2±0.1	1.0	2.3	9.1±0.5	83
22	Unitube	22	3.2±0.1	1.0	2.3	9.1±0.5	83
24	Unitube	24	3.2±0.1	1.0	2.3	9.1±0.5	83

Ordering Information



Example

ODTLZ006SM = TLZ series unitube singlemode 9µm with 6 cores fiber optic cable.

ODTLZ024M1 = TLZ series unitube multimode OM1, 62.5µm, 24 cores fiber optic cable.