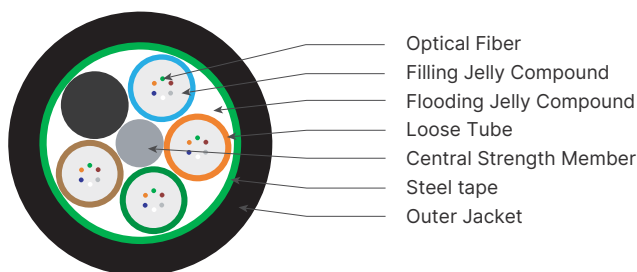


# ODTMZ Series

4-288 Cores Corrugated Steel Tape Armoured MDPE Black Outdoor 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	≤0.36	≤0.36	≤0.36
	1550nm	dB/km	≤0.22	≤0.22	≤0.22
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

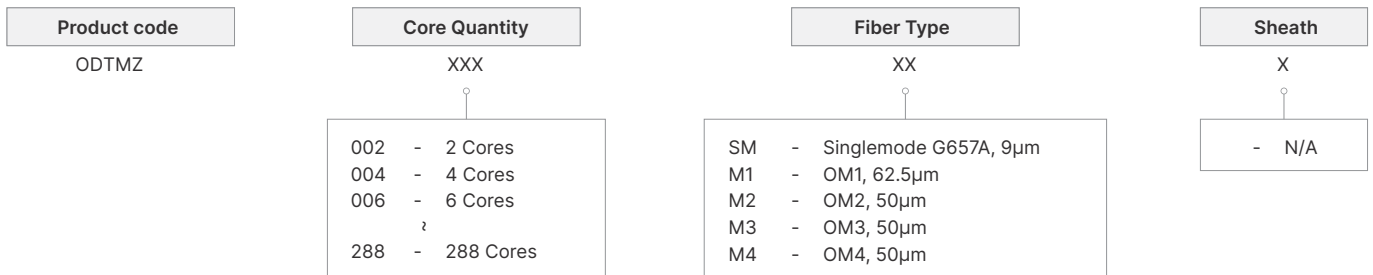
### Cable Performance

Fiber color	Full color spectrum (Natural color instead of white)
Loose tube material	PBT
Loose tube color	Full color spectrum
Filter material	PE
Filter color	Black
CSM material	Phosphating steel wire
Armoured material	Plastic coated Steel strip
Outer jacket material	MDPE
Outer jacket color	Black
Min. bending radius	<b>Static:</b> 10 times cable diameter <b>Dynamic:</b> 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)
Torsion	Load: 150N; number of cycles: 10; twist angle:±180° No obvious addition attenuation, no fiber break and no cable damage
Impact	Impact energy: 450g×1m; radius of hammer head:12.5mm; number of impact: 5 No obvious addition attenuation, no fiber break and no cable damage.
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)	CSM diameter /pad diameter (mm)	Nominal thickness of outer jacket (mm)	Cable diameter (mm)	Cable weight (kg/km)
4	1+5	4	1.7±0.1	1.35/1.35	1.6	9.0±0.5	78
6	1+5	6	1.7±0.1	1.35/1.35	1.6	9.0±0.5	78
8	1+5	4	1.7±0.1	1.35/1.35	1.6	9.0±0.5	79
12	1+5	6	1.7±0.1	1.35/1.35	1.6	9.0±0.5	79
18	1+5	6	1.7±0.1	1.35/1.35	1.6	9.0±0.5	79
24	1+5	6	1.7±0.1	1.35/1.35	1.6	9.0±0.5	80
30	1+5	6	1.7±0.1	1.35/1.35	1.6	9.0±0.5	81
36	1+5	6	1.7±0.1	2.0/2.0	1.6	9.7±0.5	104
48	1+5	12	2.0±0.1	1.35/1.35	1.6	9.7±0.5	91
60	1+5	12	2.0±0.1	1.35/1.35	1.6	9.7±0.5	92
72	1+6	12	2.0±0.1	2.0/2.0	1.6	10.4±0.5	115
84	1+7	12	2.0±0.1	1.8/2.9	1.6	11.3±0.5	127
96	1+8	12	2.0±0.1	1.8/3.5	1.6	12.0±0.5	139
108	1+9	12	2.0±0.1	1.8/4.2	1.6	12.7±0.5	154
120	1+10	12	2.0±0.1	1.8/4.9	1.6	13.4±0.5	168
132	1+11	12	2.0±0.1	1.8/5.5	1.6	14.0±0.5	181
144	1+12	12	2.0±0.1	1.8/6.3	1.6	14.8±0.5	199
192	1+6+12	12	2.0±0.1	2.2/2.2	1.6	14.7±0.5	209
216	1+6+12	12	2.0±0.1	2.2/2.2	1.6	14.7±0.5	211
288	1+9+15	12	2.0±0.1	2.2/4.2	1.6	16.7±0.5	264

### Ordering Information



#### Example

**ODTMZ004SM** = TMZ series outdoor singlemode 9µm with 4 cores fiber optic cable.

**ODTMZ012M3** = TMZ series outdoor multimode OM3, 50µm, 12 cores fiber optic cable.