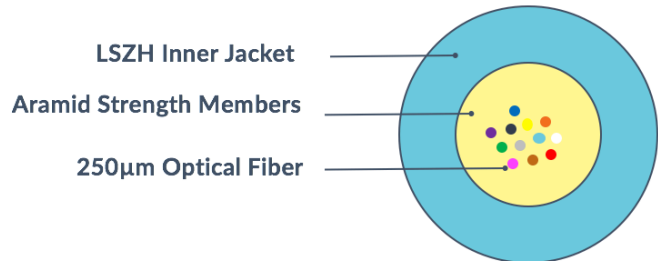


## Fiber Optic, Cable, Single Strand, Single jacket, 12/24 fiber

### Features and benefits

- Fiber-count 12 and 24 fibers
- Bend-insensitive/bend optimized fibers
- Plenum (OFNP / FT6), LSZH Riser OFNR (FT-4-ST1)
- OS2, OM3 and OM4 performance types
- Color-outer-jacket to denote performance
- Very flexible with no preferential bend
- Subunits can be directly terminated to MPO connectors
- Suitable for routing in trays, racks and under raised floors
- Enables installation around tight corners and in confined spaces



### Description

Opterna micro-cable is an extremely compact, high performance flame rated cable designed for data centers, co-location, and central office applications where space is a premium.

Opterna offer subunits with 250 micron, color-coded fibers which are over-sleeved with aramid yarn and then outer jacket material. The outer jacket material has a nominal diameter of 3mm for 12 fibers and 3.8mm for 24 fibers. Multimode cables are supplied with bend-optimized fibers as standard, and singlemode cables come in a choice of low-bend or standard.

### Technical data

No. of fibers	12 fiber	12 fiber	24 fiber
Design	1 x 12 bare fiber	1 x 12 bare fiber	2 x 12 bare fiber
Cable nominal diameter in (mm)	2.0mm ±0.2	3.0mm ±0.2	3.6mm ±0.2
Maximum installation tension (N)	90	200	440
Max operation tension (N)	27	66	132
Min. bend-radius with tension(mm)	10 x cable Ø		
Min. bend-radius under max. tension(mm)	20 x cable Ø		

### Environmental data

Temperature range	Value
Installation	LSZH (-10° C to +60° C), PLENUM (0° C to +60° C)
Transport and storage	- 40° C to +70° C
Operation	LSZH (-20° C to +70° C), PLENUM (0° C to +70° C)

Mechanical data

\*values for multi-mode fibers, all optical measurements performed at 1300nm

\*value for singlemode fibers, all optical measurements performed at 1550nm

Fiber colors

No. of fibers	12 fiber (2mm)	12 fiber (3mm)	24 fiber (3.6mm)
Max. tension during installation (short term). Fiber strain $\leq 0.6\%$ , $\Delta a$ reversible IEC 60794-1-2-E1	90N	200N	400N
Crush (short term) IEC 60794-1-2-E3	500N/100mm		
Temperature range $\Delta a \leq 0.6$ dB/km (SM) IEC 60794-1-2-F1	LSZH (-20° C to +70° C), PLENUM (0° C to +70° C)		

No.	1	2	3	4	5	6	7	8	9	10	11	12
Color	Blue	Orange	Green	Brown	Grey	White	Red	Black	Yellow	Violet	Pink	Aqua
No.	13	14	15	16	17	18	19	20	21	22	23	24
Color	Blue	Orange	Green	Brown	Grey	White	Red	Black	Yellow	Violet	Pink	Aqua

Jacket colors

No.	SM	OM1/OM2	OM3	OM4
Color	Yellow	Orange	Aqua	Heather Violet
RAL	RAL 1018	RAL 2003	RAL 6027	RAL 4003

Part numbers

<b>12-fiber LSZH (Low Smoke Zero Halogen)</b>	<b>Part code</b>
12-fiber, 3mm, micro-cable, single-strand/single jacket, yellow, LSZH, singlemode OS2, G657.A2	OPT-FOC-047
12-fiber, 3mm, micro-cable, single-strand/single jacket, aqua, LSZH, multimode, OM3 bend-optimized	OPT-FOC-048
12-fiber, 3mm, micro-cable, single-strand/single jacket, heather violet, LSZH, multimode, OM4 bend-optimized	OPT-FOC-049

<b>12-fiber OFNP (Plenum Rated)</b>	<b>Part code</b>
12-fiber, 3mm, micro-cable, single-strand/single jacket, yellow, OFNP, singlemode OS2, G657.A2	OPT-FOC-050
12-fiber, 3mm, micro-cable, single-strand/single jacket, aqua, OFNP, multimode, OM3 bend-optimized	OPT-FOC-051
12-fiber, 3mm, micro-cable, single-strand/single jacket, heather violet, OFNP, multimode, OM4 bend-optimized	OPT-FOC-052

<b>12-fiber OFNR (Riser Rated)</b>	<b>Part code</b>
12-fiber, 3mm, micro-cable, single-strand/single jacket, yellow, OFNR, singlemode OS2, G657.A2	OPT-FOC-053
12-fiber, 3mm, micro-cable, single-strand/single jacket, aqua, OFNR, multimode, OM3 bend-optimized	OPT-FOC-054
12-fiber, 3mm, micro-cable, single-strand/single jacket, heather violet, OFNR, multimode, OM4 bend-optimized	OPT-FOC-055

<b>24-fiber LSZH (Low Smoke Zero Halogen)</b>	<b>Part code</b>
12-fiber, 3.6mm, micro-cable, single-strand/single jacket, yellow, LSZH, singlemode OS2, G657.A2	OPT-FOC-056
12-fiber, 3.6mm, micro-cable, single-strand/single jacket, aqua, LSZH, multimode, OM3 bend-optimized	OPT-FOC-057
12-fiber, 3.6mm, micro-cable, single-strand/single jacket, heather violet, LSZH, multimode, OM4 bend-optimized	OPT-FOC-058

<b>24-fiber OFNP (Plenum Rated)</b>	<b>Part code</b>
12-fiber, 3.6mm, micro-cable, single-strand/single jacket, yellow, OFNP, singlemode OS2, G657.A2	OPT-FOC-059
12-fiber, 3.6mm, micro-cable, single-strand/single jacket, aqua, OFNP, multimode, OM3 bend-optimized	OPT-FOC-060
12-fiber, 3.6mm, micro-cable, single-strand/single jacket, heather violet, OFNP, LSZH, multimode, OM4 bend-optimized	OPT-FOC-061

<b>24-fiber OFNR (Riser Rated)</b>	<b>Part code</b>
12-fiber, 3.6mm, micro-cable, single-strand/single jacket, yellow, OFNR, singlemode OS2, G657.A2	OPT-FOC-062
12-fiber, 3.6mm, micro-cable, single-strand/single jacket, aqua, OFNR, multimode, OM3 bend-optimized	OPT-FOC-063
12-fiber, 3.6mm, micro-cable, single-strand/single jacket, heather violet, OFNR, LSZH, multimode, OM4 bend-optimized	OPT-FOC-064