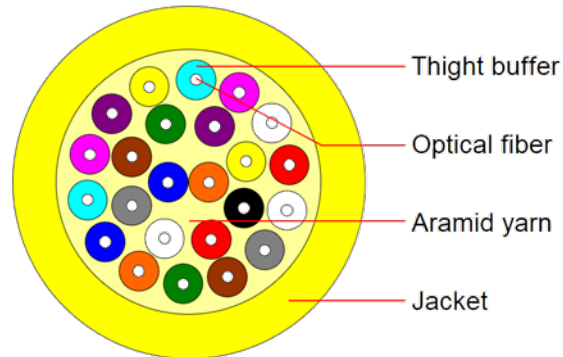


Cable Cross-Section

Optowire CSC-24FO-0.6kN



Cable Specification

Tight buffer fibers, aramid yarn as strength member, LSZH inner jacket constitute a subunit, elements (subunits) laid up around non-metallic central strength member, wrapping tape, and LSZH outer jacket.

Fiber Color Code

No.	1	2	3	4	5	6
Color	Blue	Orange	Green	Brown	Gray	White
No.	7	8	9	10	11	12
Color	Red	Black	Yellow	Violet	Pink	Aqua
No.	1	2	3	4	5	6
Color	Blue #	Orange #	Green #	Brown #	Gray #	White #
No.	7	8	9	10	11	12
Color	Red #	White ##	Yellow #	Violet #	Pink #	Aqua #

Note: # means single black tracer; ## means double black tracers

Optical Fiber Type & Properties

G652D Characteristic of Optical Fiber

Item		Unit	Specification
Mode Field Diameter	1310nm	μm	9.2 ± 0.4
	1550nm		
Cladding Diameter		μm	10.4 ± 0.5
Cladding Non-Circularity		%	125.0 ± 0.7
Core Concentricity Error		μm	≤1.0
Coating Diameter		μm	≤0.5
Coating/Cladding Concentricity Error		μm	242 ± 7
Cable Cut-Off Wavelength		nm	≤12
Attenuation Coefficient	1310nm	dB/km	≤0.35
	1550nm	dB/km	≤0.21
Proof Stress Level		kpsi	≥100

Cable Structure & Parameter

Item	Contents	Unit	Value
Optical Fiber	/	/	24
Tight buffer fiber	Diameter	mm	0.9 ± 0.05
	Material	/	LSZH
Strength member	Material	/	Aramid yarns
Outer jacket	Diameter	mm	16.8±1.0
	Material	/	LSZH
	Color	/	Yellow
Tensile performance	Short term	N	600
Crush	Short term	N/100mm	1000
Cable attenuation (Cabled)		dB/km	≤ 0.4 @ 1310nm; ≤ 0.3 @ 1550nm
Cable weight (Approx.)		dB/km	62

Note: Sizes and values without tolerances are nominal values

Characteristic Of Optical Cable

Min. Bending Radius

Static: 10 x cable diameter

Dynamic: 20 x cable diameter

Application Temperature Range

Operation: - 20°C ~ +70°C

Installation: -20°C ~ +60°C

Storage/transportation: - 20°C ~ +70°C

Main Mechanical & Environmental Performance Test

Item	Test Method	Acceptance Condition
Tensile Strength IEC 60794-1-21-E1	- Load: Short term tension - Length of cable: ≥ 50m - Load time: 5min	- Fiber strain ≤ 0.6%. - No fiber break and no sheath damage.
Crush Test IEC 60794-1-21-E3	- Load: Short term crush - Load time: 1min	- No fiber break and no sheath damage.
Impact Test IEC 60794-1-21-E4	- Points of impact: 3 - Times of per point: 1 - Impact energy: 1J	- No fiber break and no sheath damage.
Repeated Bending IEC 60794-1-21-E6	- Bending radius: 20 x OD - Number of cycles: 30	- No fiber break and no sheath damage.
Torsion IEC 60794-1-21-E7	- Length: 1m - Twist angle: ±180° - Number of cycles: 5	- No fiber break and no sheath damage.
Cable bend IEC 60794-1-21-E11	- Diameter of mandrel: 20 x OD - Number of turns: 4 - Number of cycles: 5	- No fiber break and no sheath damage.
Flame retardant IEC 60332-1	- Pass the single cable vertical flame propagation test.	