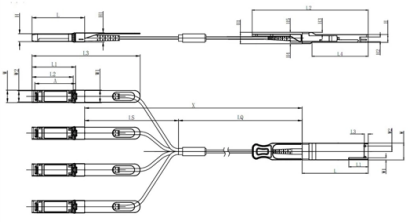
What do SC single-mode and LC single-mode fiber optic cables mean



Unit mm

QSFP28	L	L1	L2	L3	L4	W	W1	W2	H	H1	H2	H3	H4	H5	H6
Max	72.2	-	128	4.35	61.4	18.45	-	6.2	8.6	12.4	5.35	2.5	1.6	2.0	-
Type	72.0	-	-	4.20	61.2	18.35	-	-	8.5	12.2	5.2	2.3	1.5	1.8	6.55
Min	68.8	16.5	124	4.05	61.0	18.25	2.2	5.8	8.4	12.0	5.05	2.1	1.3	1.6	-

SFP28	L	L1	L2	L3	W	W1	W2	H	H1	A
Max	57.6	47.7	44.55	119.9	13.8	14.0	12.3	8.7	10.3	45.25
Type	57.4	47.5	44.35	117.9	13.55	13.8	12.1	8.5	10.1	45
Min	57.2	47.3	44.15	115.9	13.3	13.6	11.9	8.4	9.9	44.65

Article Overview

SC and LC single-mode fiber optic cables refer to single-mode fibers terminated with SC or LC connectors, differing mainly in connector size, design, and typical applications.

Connector Types

SC (Subscriber Connector or Standard Connector) is a square-shaped connector with a 2.5 mm ferrule and a push-pull snap mechanism. It is robust, durable, and widely used in enterprise networks, FTTH (Fiber to the Home), and legacy systems. SC connectors are larger, making them less suitable for high-density environments but ideal for applications requiring durability and ease of handling . LC (Lucent Connector) is a smaller, compact connector with a 1.25 mm ferrule and a latch-based push-pull mechanism. Its compact size allows for higher port density, making it common in modern data centers, telecom networks, and high-speed applications such as 10G, 40G, and 100G systems. LC connectors are compatible with both single-mode and multimode fibers and are often the default choice for SFP/SFP+ and QSFP transceivers .

Single-Mode Fiber

Single-mode fiber (OS2) is designed for long-distance transmission with a small core diameter (typically 8–10 µm), allowing only one light mode to propagate. This reduces modal dispersion and enables high-bandwidth, long-distance communicatio...

Article Content

LC Fiber Optics: A Comprehensive Guide

LC fiber connector products are robust optical solutions designed for telecom applications, encompassing LC fiber

Difference between Single vs Multimode Fiber Optic Cables

Transmission distance: Fiber Optic Cables are excellent at transmitting data over long and short distances. However,

LC vs SC Fiber Connector – Key Differences Explained

Explore LC vs SC fiber connector types to understand their uses, benefits, and compatibility in fiber optic network setups.

Fiber Optic Cable Types Explained: Choosing the Right Fiber Cable

Explore different types of fiber optic cables, from single mode to armored and LC uniboot options. Learn how to

Optical Fiber Termination Types Chart: SC, LC, FC, ST Comparison

In this guide, we break down the most common optical fiber termination types, including SC, LC, FC, and ST. We''ll

How Many Fiber Connector Types Do You Know?

However, with technologies getting advanced, fiber optic connectors like SC, LC, and FC, provided by fiber optic

Understanding Fiber Optic Cables and Connectors

Read Whitepaper: Discover the fiber optic cable and connector types, specifications, benefits, typical

LC Vs SC Vs FC Vs MPO Fiber Optic Connectors: Expert Guide

By understanding the differences between single-mode and multimode fiber optic connectors, you can make an

Choosing the right fiber? LC/SC, Singlemode, Multimode, etc

single mode with a prefab cable. fs transceivers will work in the unifi gear without issue. Multimode is pretty much dead at this

SFP Fiber Optic Connector Types: LC, SC, MPO Explained

Explore common SFP fiber optic connector types, including LC, SC, and MPO/MTP. Learn their differences, use cases, and

Complete Guide to Fiber Optic Connector Types: LC, SC, MPO Tips

It explains all major connector types (LC, SC, MPO/MTP, ST, FC, rugged industrial connectors), the differences

LC vs SC Fiber Connector – Key Differences Explained

LC Connectors: It is ideal for environments where space efficiency and density are critical, such as data centers, high

SC vs LC Patch Cords: Key Differences & Uses

This comprehensive guide unpacks the nuances of SC and LC patch cords, from their structural designs and technical

fiber optic cable multimode versus singlemode duplex vs simplex

Workstations, fiber switches and servers, fiber modems, and similar hardware require duplex cable. Duplex fiber is available in

Fiber Optic Cable Types Explained

Our comprehensive guide to types of fiber optic cables. Learn all about the differences between single mode and multimode cables,

Differences Between SC and LC Connectors | LC vs SC connector

While both SC SFP module and LC SFP module serve the same purpose of establishing a connection between the

Single Mode vs Multimode Fiber: What''s the difference?

In our Single Mode vs Multimode fiber text we take a look at different fiber optic cable types

Contact Us

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