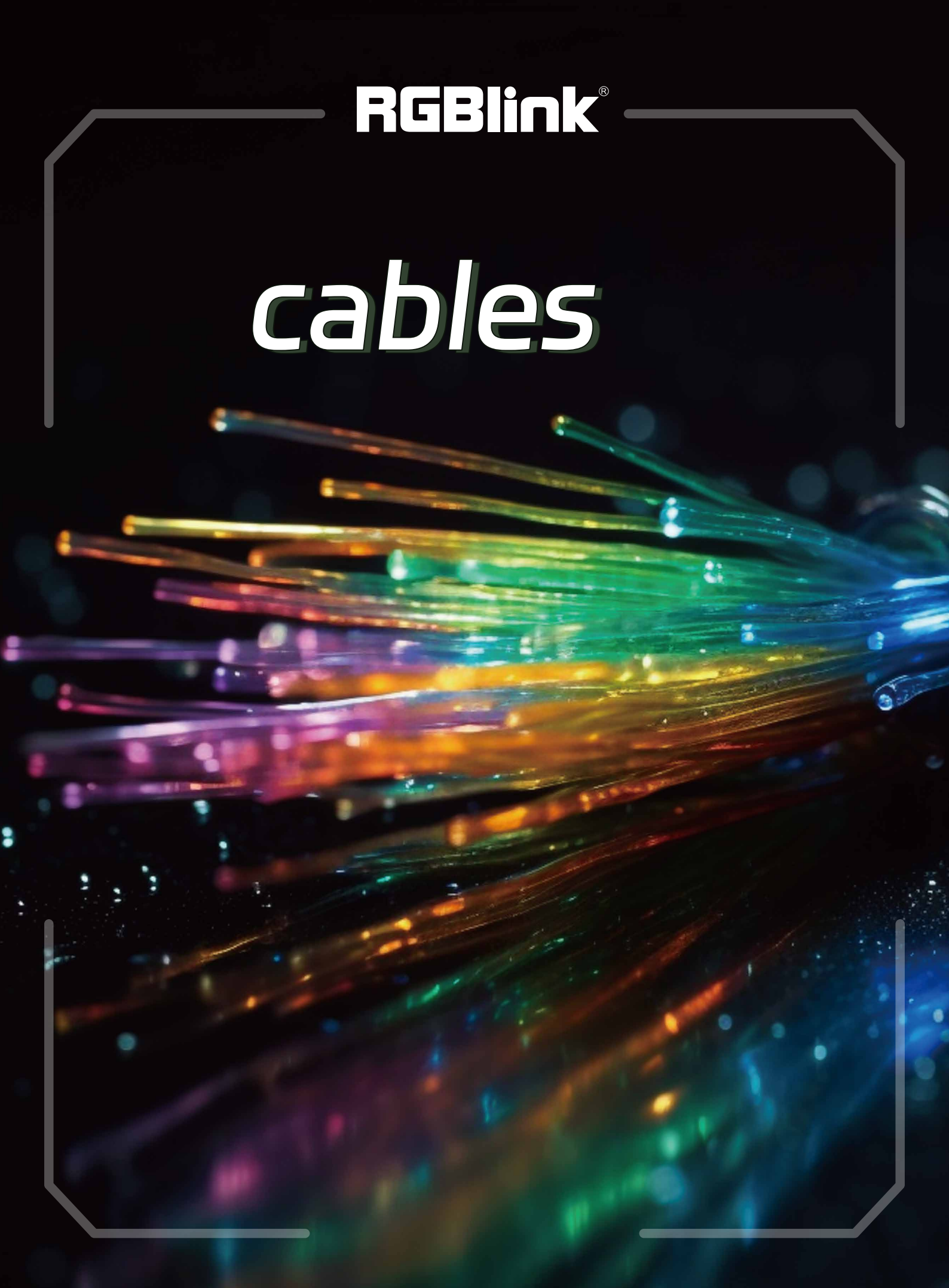
RGBlink®

cables



Optic Fiber

Basic Knowledge

Q: What is Single mode
A: optical wavelength 1310-1550nm

Q:What is Multimode
A: multimode, optical wavelength 850nm

Q:Are there other ferrule type?
A:Yes, there are also other types of ferrules PC, APC

Q:what are the key parameters affected
A: insertion loss and return loss. The UPC standard is insertion less than 0.3db. Return loss is greater than or equal to -50db.

Q:What is 9/125
A:refers to the fiber core diameter of single-mode fiber, plus coating layer is 125, unit UM (micron)

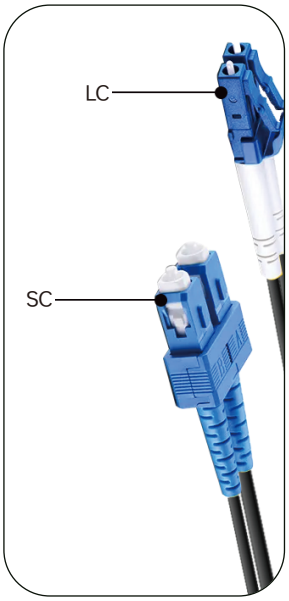
Q:What is OS2
A: refers to single-mode fibers that meet the standards G.652C and G.652D, also known as single-mode zero-water-peak fibers or single-mode low-water-peak fibers, which have the advantages of low loss, low dispersion, low water peaks and high performance, and are an
ideal choice for high-speed, long-distance optical transmission.

Q: What are OM3 and OM4
A: Multimode fiber standards that support 10G-100G bandwidth

Q: How many connector types does optic fiber have.
A: There are 5 types

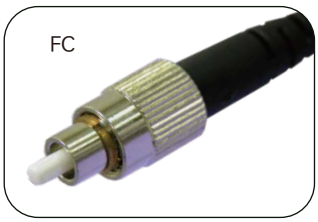
Q:What is color code for single mode and multimode
A: single mode is blue, mulitimode is aqua blue

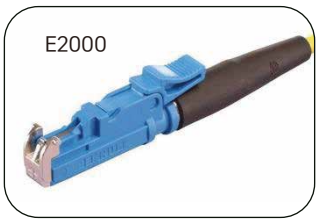
Q: What is UPC
A: the shape of the ferrule



The above two types are RGBlink ' s regular supply. There are ST/ FC/E2000/MPO as follows available for custom.



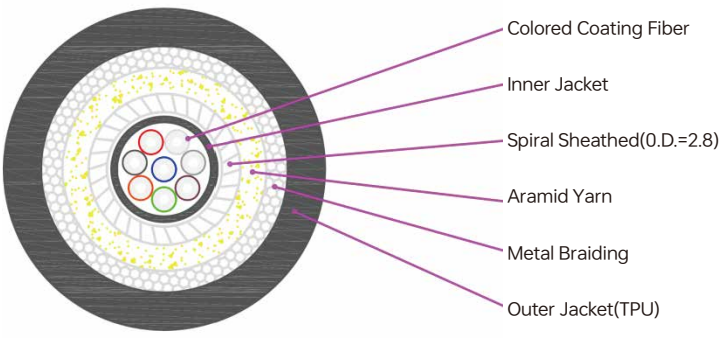


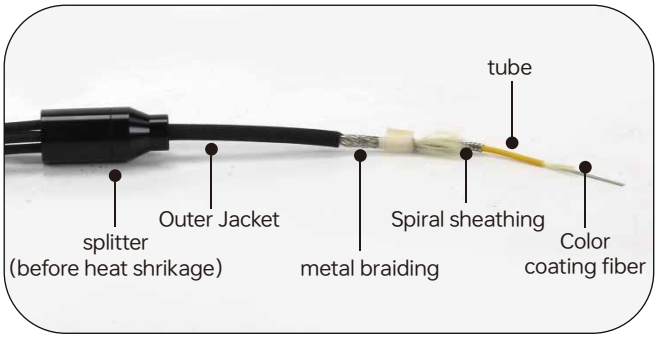




The internal composition of RGBlink optical fiber

Material from the inside out: 0.6mm tight buffer fiber, 1.8mm/2.8mm
stainless steel casing, aramid reinforcing member with 1110D tension, stainless steel braided mesh, TPU casing (with **ROHS** certification)





Features of RGBlink fiber optic cable

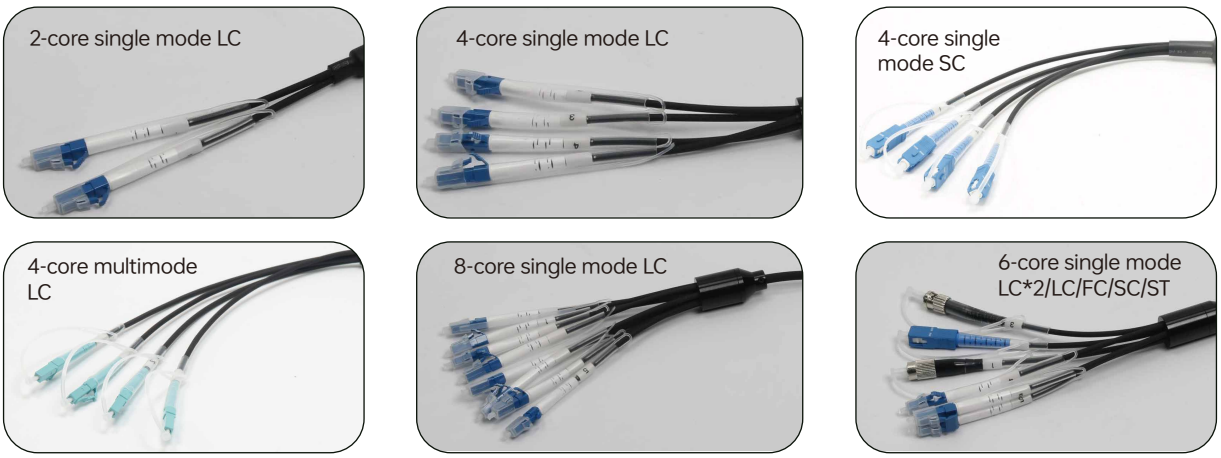


Single-mode cables use OS2 fiber that meets the G657A1 standard.

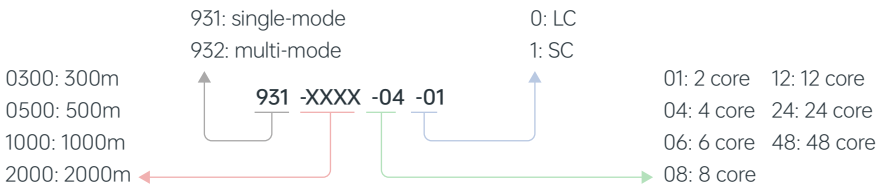
- Multimode fiber meets the OM3/300 standard, achieving a rate of 10G.
- The interfaces are diverse and can be customized according to customer requirements: LC, SC, ST, FC, E2000, MPO connectors are available for customers to specify.
- Customizable lengths: 1-2,000 meters, customers can specify freely.
- The use of stainless steel helical armor can effectively protect the fiber optic bundle, prevent damage caused by external force extrusion or stretching, and improve the durability and reliability of the fiber optic cable.
- TPU outer coating material: Flame-retardant UL94 V-0 (*After conducting two 10-second burning tests on the sample, the flame extinguishes within 10 seconds, and no burning particles fall off.) Waterproof, oil-resistant, UV-resistant, wear-resistant.

Sample demonstration

decribe optic fiber cable by cores, mode and connector types



Code Definition



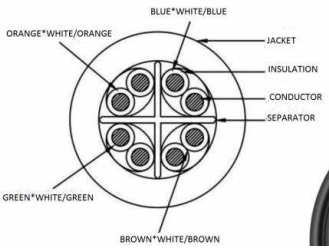
example Product code	mode	length	construction	connector
932-0300-01-0	multi-mode	300M	2-core	LC
931-0800-04-0	single-mode	80OM	4-core	LC
931-1000-06-0	single-mode	1000M	6-core	LC
931-2000-08-0	single-mode	2000M	8-core	LC
932-030008-1	multi-mode	300M	8-core	SC
932-0300-12-1	multi-mode	30OM	12-core	SC
931-1000-04-1	single-mode	1000M	4-core	SC
931-2000-06-1	single-mode	2000M	6-core	SC

Ethernet Cable

RGBlink Standard Ethernet Cables

Cat 6 has a maximum transmission distance of 100 meters, and the length can be customized.
Cat 5e recommended length is not over 30 meters, and the length can be customized.

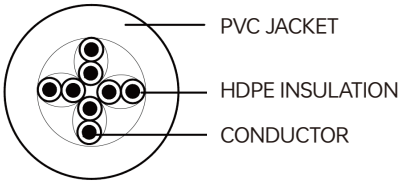




CAT 6



CAT 5e



Both CAT6 and CAT 5e support gigabit data transmission, but CAT6 has better performance in terms of anti-interference and transmission bandwidth.
The transmission bandwidth of CAT 6 is 250MHz, and Cat 5e is 100MHz. Besides cross divider inside , cat 6 also has tighter twisting distance which makes its shielding feature stronger than cat5e.

RGBlink CAT6 features

- Durable break-resistant connector
- Copper terminals with anti-oxidation Nickle & Gold plating
- Extra wide latch for quick connection/removal
- Dual PVC jackets with high strength and heat resistance
- Each conductor formed by bare copper 0.56mm to make sure up to 100m signal transmission
- Cross separator and al-myla shielding cable to electromagnetic or electrostatic interference
- 50um plating connectors durable over 1000 repeated plug and unplug
- Velcro strap for easy storage

RGBlink CAT5e features

- Durable break-resistant connector
- Copper terminals with anti-oxidation Nickle & Gold plating
- Extra wide latch for quick connection/removal
- Dual PVC jackets with high strength and heat resistance
- Each conductor formed by bare copper 0.56mm to make sure up to 100m signal transmission
- Cross separator and al-myla shielding cable to electromagnetic or electrostatic interference
- 50um plating connectors durable over 1000 repeated plug and unplug
- Velcro strap for easy storage

Alternative Product

Multichannel ethernet cable



4-Ch shielded CAT 6



6-Ch shielded CAT 6



8-Ch shielded CAT 6

943-0080-00-1	4-Ch shielded CAT 6	4-Ch shielded CAT 6, 80m, 63cm×46cm×56cm (including cable and reeling cart)
943-0100-06-0	6-Ch shielded CAT 6	6-Ch shielded CAT 6, 100m 72cm×45cm× 62cm (including cable and reeling cart) 72kg each set
943-0100-08-0	8-Ch shielded CAT 6	8-Ch shielded CAT 6, 100m, 76cm×43cm×69cm (including cable and reeling cart) 86kg each set

Cable Reeling

5 models



S-cable reel M-cable reel L-cable reel



Reeling cart



Stackable stand

purchase guide

S-cable reel	911-0100-01-0	to reel 2 core optic fiber cable up to 200m， reel 4-12 core optic fiber cable up to 100m，reel ehterenet cable up to 70m
M-cable reel	911-0150-01-0	to reel 2 core optic fiber cable up to 400m， reel 4-12 core optic fiber cable up to 200m，reel ehterenet cable up to 100m
L-cable reel	911-0250-01-0	to reel 2 core optic fiber cable up to 800m， reel 4-12 core optic fiber cable up to 400m
Reeling cart	911-1000-01-0	to reel 2 core optic fiber cable up to 2000m， reel 4-12 core optic fiber cable up to 1000m
Stackable stand	911-0500-01-0	to reel 2 core optic fiber cable up to 1000m， reel 4-12 core optic fiber cable up to 500m

Features&Fuctions

● Protecting cables: The cable reel cart neatly winds the cables onto the spool, preventing the cables from tangling with each other and wearing out, thus extending the lifespan of the cables.
● Saving space: Storing cables neatly on the cable reel cart can save storage space, making the site more organized and orderly, especially the stackable stand which allow users to stack multiple stands in one place and save storage space significantly.
● Convenient transportation: Stackable stand facilitate the transportation of cables, preventing damage to the cables during transportation.
● Easy management: The cable reel cart can help users better manage cables, making it easy to find and use.

Application Senarios

Optic Cable Scenarios

Fiber optic cables, when paired with optical transmitters such as the MSP 318N (UHD HDMI fiber extender), MSP318-4 (4K HDMI extender， no need SFP extra), MSP217 (3G SDI Fiber extender), and MSP317(12G SDI fiber extender, no need SFP extra), are used for long-distance transmission of audio and video signals.
These setups are commonly employed in scenarios such as sports events and stage performances.





Ethernet cable Scenarios

Ethernet cables are primarily used along with devices like the MSP315-4 (HDBaseT extender-2K 70m) and MSP415 (HDBaseT Extender- 4K 100M) for medium to short-distance audio and video transmission, typically in settings such as home theater systems and educational training environments.





Mostly, they are directly connected to LED screen sending cards and receiving cards, used for various occasions LED screens, such as stage screens, outdoor advertising screens, and so on.



