

»» Cabling Solutions

Cabling Solutions

The backbone of your entire network

- »» Wide selection of copper and fiber cables
- »» High quality: our CAT6 and CAT5e cables exceed the TIA/EIA standards
- »» Guaranteed for life



Top quality cabling at the best price.

Attractive discounts for larger quantities.

Dear Client,



We are pleased to present you the brand new Cabling Solutions brochure!

The cables in your IT network are probably not the biggest investment, but they are very important.

At Black Box you'll find all the copper and fiber cable solutions you need.

All the prices have been reviewed carefully to offer you **the best quality at the best price!**

Do you know you can get **special discounts for larger quantities?**

To give you an idea of the volume reduced pricing, we have highlighted an example of the discount you can get on each page.



Furthermore, those discounts will also be **automatically generated in our webshop**. It does not matter if you need a mix of CAT5e and CAT6 of different lengths or colours, **quantity discounts are valid on the total amount of copper or fiber cables ordered**. You will recognize the products that are subject to quantity discounts by the green logo on the product page.

To ensure consistent and continuing quality, Black Box participates in independent third-party ETL testing. Our proprietary, end-to-end GigaTrue® CAT6 and GigaBase® CAT5e Channel Solutions exceed all standard TIA/EIA key measurements. Therefore – with confidence – we give you a **lifetime guarantee** on these and other cables, so you can be confident your cabling infrastructure will serve you for years to come.

To learn more, visit the Black Box website at www.blackbox.be or call us at +32.2.725.85.50.

Enjoy!

Igor Demesmaeker
Sales Manager Belgium



All prices in this brochure are exclusive VAT and subject to change without prior notice. See our website www.blackbox.be.

Highlights and new products:

Turn tight spaces into right spaces

Unique space-saving cables and panels for high-density infrastructures, crowded cabinets and the desktop. See page 6.



Put critical network ports under lock and key

Secure network ports from unauthorized access and accidental disconnects. See page 7.



MTP Multi-strand fiber cables

Get 12 strands of OM3 fiber into one cable to support up to 10 Gbps speed. See page 16.



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CAT5e 100-MHz Patch Cables (UTP)

Affordable CAT5e cable tested to 100 MHz.

Molded Boots / Straight-Pinned

CAT5e 100-MHz Patch Cable (UTP), Molded Boots, Stranded, 24 AWG, RJ-45, T568B, PVC, Straight-Pinned

Item	Code	Price
0.3-m	EVNSLXXE-0001	€ 1,35
0.9-m	EVNSLXXE-0003	€ 1,90
1.8-m	EVNSLXXE-0006	€ 2,50
3.0-m	EVNSLXXE-0010	€ 3,40
4.5-m	EVNSLXXE-0015	€ 4,25
6.0-m	EVNSLXXE-0020	€ 5,60
7.6-m	EVNSLXXE-0025	€ 6,50
9.1-m	EVNSLXXE-0030	€ 7,50
15.2-m	EVNSLXXE-0050	€ 11,20
30.4-m	EVNSLXXE-0100	€ 21,50



100 x 6m
€ 5,15

To order, replace the "XX" with the number assigned to each color.

Blue = 21 Yellow = 24 Black = 27
Green = 22 Beige = 25 Purple = 28
Red = 23 Pink = 26 Orange = 29

Basic Connectors / Straight-Pinned

CAT5e 100-MHz Patch Cable (UTP), Basic Connectors, Stranded, 24 AWG, RJ-45, T568B, PVC, Straight-Pinned

Item	Code	Price
0.3-m	EVNSLXXE-0001	€ 1,15
0.6-m	EVNSLXXE-0002	€ 1,35
0.9-m	EVNSLXXE-0003	€ 1,80
1.2-m	EVNSLXXE-0004	€ 1,90
1.5-m	EVNSLXXE-0005	€ 2,05
1.8-m	EVNSLXXE-0006	€ 2,25
2.1-m	EVNSLXXE-0007	€ 2,70
3.0-m	EVNSLXXE-0010	€ 3,20
4.5-m	EVNSLXXE-0015	€ 4,10
6.0-m	EVNSLXXE-0020	€ 5,20
7.6-m	EVNSLXXE-0025	€ 5,90
9.1-m	EVNSLXXE-0030	€ 6,70
15.2-m	EVNSLXXE-0050	€ 9,90
30.4-m	EVNSLXXE-0100	€ 19,00

250 x 9.1m
€ 5,90

To order, replace the "XX" with the number assigned to each color.

Blue = 01 Beige = 05 Grey = 11 Green = 02
Pink = 06 Purple = 13 Red = 03 Black = 07
Orange = 14 Yellow = 04 White = 10

GigaBase 350 CAT5e Patch Cables (UTP)

Premium CAT5e cables tested to 350 MHz!

- Specially designed for use with other GigaBase® components.
- Improved near-end cross talk (NEXT) compared to standard CAT5 cable.
- Superior construction offers significant headroom.

Snagless boots / Straight-pinned

GigaBase 350 CAT5e Patch Cable (UTP), Snagless Boots, Stranded, 24 AWG, RJ-45, 4-Pair, T568B, PVC, Straight-Pinned

Item	Code	Price
0.3-m	EVNSLXX-0001	€ 1,15
0.6-m	EVNSLXX-0002	€ 1,30
0.9-m	EVNSLXX-0003	€ 1,45
1.2-m	EVNSLXX-0004	€ 1,65
1.5-m	EVNSLXX-0005	€ 1,80
1.8-m	EVNSLXX-0006	€ 2,00
2.1-m	EVNSLXX-0007	€ 2,20
3.0-m	EVNSLXX-0010	€ 2,75
4.5-m	EVNSLXX-0015	€ 3,60
6.0-m	EVNSLXX-0020	€ 4,55
7.6-m	EVNSLXX-0025	€ 5,40
9.1-m	EVNSLXX-0030	€ 6,30
15.2-m	EVNSLXX-0050	€ 10,15
30.4-m	EVNSLXX-0100	€ 19,75



25 x 2.1m
€ 2,13

To order, replace the "XX" with the number assigned to each color.

Grey = 80 Yellow = 84 Purple = 88 Blue = 81
Beige = 85 Orange = 89 Green = 82 Pink = 86
White = 90 Red = 83 Black = 87

Basic connectors / Straight-pinned

GigaBase 350 CAT5e Patch Cable (UTP), Basic Connectors, Stranded, 24 AWG, RJ-45, 4-Pair, T568B, PVC, Straight-Pinned

Item	Code	Price
0.3-m	EVNSLXX-0001	€ 1,15
0.6-m	EVNSLXX-0002	€ 1,30
0.9-m	EVNSLXX-0003	€ 1,45
1.2-m	EVNSLXX-0004	€ 1,65
1.5-m	EVNSLXX-0005	€ 1,80
1.8-m	EVNSLXX-0006	€ 2,00
2.1-m	EVNSLXX-0007	€ 2,20
3.0-m	EVNSLXX-0010	€ 2,70
4.5-m	EVNSLXX-0015	€ 3,55
6.0-m	EVNSLXX-0020	€ 4,45
7.6-m	EVNSLXX-0025	€ 5,40
9.1-m	EVNSLXX-0030	€ 6,30
15.2-m	EVNSLXX-0050	€ 10,15
30.4-m	EVNSLXX-0100	€ 19,75

100 x 6m
€ 4,09

To order, replace the "XX" with the number assigned to each color.

White = 20 Yellow = 54 Grey = 58 Blue = 51
Beige = 55 Orange = 59 Green = 52 Pink = 56
Purple = 79 Red = 53 Black = 57



GigaTrue CAT6 550-MHz Patch Cables (UTP)

CAT6 patch cables for all your high-performance applications.



- For 1000BASE-T, 100BASE-TX, 100BASE-VG, 155-Mbps ATM, 100-Mbps FDDI/CDDI, and other high-speed applications.
- Stranded cable delivers full power sum performance.
- Provide full-duplex operation for next-generation applications.

Our best CAT6 patch cable / Component performance with report / Molded boots

GigaTrue CAT6 Component 550-MHz Patch Cable (UTP), Molded Boots, Stranded, 24 AWG, RJ-45, 4-Pair, T568B, PVC, Straight-Pinned

Item	Code	Price
0.9-m	EVNSL6XX-0003	€ 3,05
1.5-m	EVNSL6XX-0005	€ 3,60
1.8-m	EVNSL6XX-0006	€ 3,85
2.1-m	EVNSL6XX-0007	€ 4,05
3.0-m	EVNSL6XX-0010	€ 4,70
4.2-m	EVNSL6XX-0014	€ 5,55
6.0-m	EVNSL6XX-0020	€ 6,90

250 x 3m
€ 4,14

To order, replace the "XX" with the number assigned to each color.

- | | | | |
|------------|-------------|-------------|-----------|
| Gray = 70 | Yellow = 74 | Purple = 78 | Blue = 71 |
| Beige = 75 | Orange = 79 | Green = 72 | Pink = 76 |
| White = 80 | Red = 73 | Black = 77 | |

Channel performance / Snagless boots

GigaTrue CAT6 Channel 550-MHz Patch Cable (UTP), Snagless Boots, Stranded, 24 AWG, RJ-45, 4-Pair, T568B, PVC, Straight-Pinned

Item	Code	Price
0.3-m	EVNSL6XX-0001	€ 1,80
0.6-m	EVNSL6XX-0002	€ 2,00
0.9-m	EVNSL6XX-0003	€ 2,20
1.2-m	EVNSL6XX-0004	€ 2,35
1.5-m	EVNSL6XX-0005	€ 2,55
1.8-m	EVNSL6XX-0006	€ 2,75
2.1-m	EVNSL6XX-0007	€ 2,95
3.0-m	EVNSL6XX-0010	€ 3,55
4.5-m	EVNSL6XX-0015	€ 4,65
6.0-m	EVNSL6XX-0020	€ 5,55
7.6-m	EVNSL6XX-0025	€ 6,80
9.1-m	EVNSL6XX-0030	€ 7,85
15.2-m	EVNSL6XX-0050	€ 12,10
30.4-m	EVNSL6XX-0100	€ 22,25

100 x 2,1m
€ 2,71

To order, replace the "XX" with the number assigned to each color.

- | | | | |
|------------|-------------|-------------|-----------|
| Gray = 40 | Yellow = 44 | Purple = 48 | Blue = 41 |
| Beige = 45 | Orange = 49 | Green = 42 | Pink = 46 |
| White = 50 | Red = 43 | Black = 47 | |

Channel performance / Basic connectors

GigaTrue® CAT6 Channel 550-MHz Patch Cable (UTP), Basic Connectors, Stranded, 24 AWG, RJ-45, 4-Pair, T568B, PVC, Straight-Pinned

Item	Code	Price
0.3-m	EVNSL6XX-0001	€ 1,75
0.6-m	EVNSL6XX-0002	€ 1,95
0.9-m	EVNSL6XX-0003	€ 2,15
1.2-m	EVNSL6XX-0004	€ 2,30
1.5-m	EVNSL6XX-0005	€ 2,50
1.8-m	EVNSL6XX-0006	€ 2,70
2.1-m	EVNSL6XX-0007	€ 2,90
3.0-m	EVNSL6XX-0010	€ 3,50
4.5-m	EVNSL6XX-0015	€ 4,60
6.0-m	EVNSL6XX-0020	€ 5,55
7.6-m	EVNSL6XX-0025	€ 6,75
9.1-m	EVNSL6XX-0030	€ 7,80
15.2-m	EVNSL6XX-0050	€ 12,05
30.4-m	EVNSL6XX-0100	€ 22,20

250 x 0.6m
€ 1,72

To order, replace the "XX" with the number assigned to each color.

- | | | | |
|------------|-------------|-------------|------------|
| Gray = 20 | Yellow = 24 | Purple = 28 | Blue = 21 |
| Beige = 25 | Orange = 29 | Green = 22 | Pink = 26 |
| White = 30 | Red = 23 | Black = 27 | Lilac = 31 |

CAT6 550-MHz Solid-Conductor Backbone Cable (UTP)

550-MHz backbone cable for fast CAT6 runs



- Meets or exceeds CAT6 specifications.
- Use in 1000BASE-T, 100BASE-T, and other high-speed, high-bandwidth applications.

Item	Blue	Green	Red
0.6-m	EYN901MS-0002	EYN902MS-0002	EYN903MS-0002
1.5-m	EYN901MS-0005	EYN902MS-0005	EYN903MS-0005
3.0-m	EYN901MS-0010	EYN902MS-0010	EYN903MS-0010
4.5-m	EYN901MS-0015	EYN902MS-0015	EYN903MS-0015
6.0-m	EYN901MS-0020	EYN902MS-0020	EYN903MS-0020
7.6-m	EYN901MS-0025	EYN902MS-0025	EYN903MS-0025
9.1-m	EYN901MS-0030	EYN902MS-0030	EYN903MS-0030
10.6-m	EYN901MS-0035	EYN902MS-0035	EYN903MS-0035
15.2-m	EYN901MS-0050	EYN902MS-0050	EYN903MS-0050
30.4-m	EYN901MS-0100	EYN902MS-0100	EYN903MS-0100
Custom Lengths	EYN901MS	EYN902MS	EYN903MS

Item	Yellow	White	Price
0.6-m	EYN904MS-0002	EYN906MS-0002	€ 5,60
1.5-m	EYN904MS-0005	EYN906MS-0005	€ 6,60
3.0-m	EYN904MS-0010	EYN906MS-0010	€ 8,60
4.5-m	EYN904MS-0015	EYN906MS-0015	€ 11,10
6.0-m	EYN904MS-0020	EYN906MS-0020	€ 12,50
7.6-m	EYN904MS-0025	EYN906MS-0025	€ 14,25
9.1-m	EYN904MS-0030	EYN906MS-0030	€ 15,70
10.6-m	EYN904MS-0035	EYN906MS-0035	€ 18,10
15.2-m	EYN904MS-0050	EYN906MS-0050	€ 23,60
30.4-m	EYN904MS-0100	EYN906MS-0100	€ 39,50
Custom Lengths	EYN904MS		Call

100 x 10.6m
€ 16,65

GigaBase CAT5e F/UTP LSZH Patch Cables

CAT5e performance and a high protection against EMI interference.



CAT5e

- Meet and exceed ANSI/TIA/EIA-568-B.2 Category 5e component performance specifications.
- Support Gigabit Ethernet, 622/155-Mbps ATM, Fast Ethernet and other high-speed applications.
- High-quality foil shield gives excellent immunity to external electromagnetic fields.

TECH SPECS

Electrical:

Characteristic Impedance 100 ± 15 ohms @ 1–100 MHz

Delay Skew 45 ns (100 m) maximum

Physical and Environmental:

Cable Type F/UTP 4-pair stranded copper

Coding Scheme T568B

Gauge 26 AWG

Insertion Life 2000 cycles minimum

Operating Temperature Range 0 to 60° C

Outside Cable Diameter 5.4 ± 0.3 mm

Plug Retention Force 310 N minimum

Shield Type Insulation on outside surface (Al-Mylar type); Drain wire: tinned copper, 26 AWG 7/0.16 ± 0.005 mm

Connector RJ-45, 8P8C, gold-plated, 1.27 µm

Standards and Approvals:

ISO/IEC11801, EN50288, TIA/EIA 568B.2, CM(UL®), C(UL), IEC 60332-3 Cat C, IEC 61189-2C12, IPC4101-A



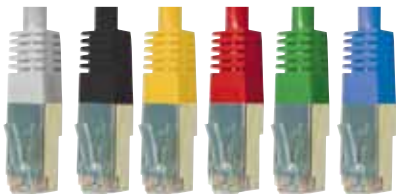
GigaBase® CAT5e F/UTP LSZH 100-MHz Patch Cables with Moulded Boots, Stranded, 26 AWG, RJ-45, 4-Pair, T568B, Straight-Pinned

Item	Grey	Blue	Green	Red	Yellow	Beige	Orange	Black	Price
0.5-m	EVE530-00M5	EVE531-00M5	EVE532-00M5	EVE533-00M5	EVE534-00M5	EVE535-00M5	EVE536-00M5	EVE537-00M5	€ 1,30
1.0-m	EVE530-01M	EVE531-01M	EVE532-01M	EVE533-01M	EVE534-01M	EVE535-01M	EVE536-01M	EVE537-01M	€ 1,60
1.5-m	EVE530-01M5	EVE531-01M5	EVE532-01M5	EVE533-01M5	EVE534-01M5	EVE535-01M5	EVE536-01M5	EVE537-01M5	€ 1,95
2.0-m	EVE530-02M	EVE531-02M	EVE532-02M	EVE533-02M	EVE534-02M	EVE535-02M	EVE536-02M	EVE537-02M	€ 2,20
3.0-m	EVE530-03M	EVE531-03M	EVE532-03M	EVE533-03M	EVE534-03M	EVE535-03M	EVE536-03M	EVE537-03M	€ 2,85
5.0-m	EVE530-05M	EVE531-05M	EVE532-05M	EVE533-05M	EVE534-05M	EVE535-05M	EVE536-05M	EVE537-05M	€ 4,30
7.5-m	EVE530-07M5	EVE531-07M5	EVE532-07M5	EVE533-07M5	EVE534-07M5	EVE535-07M5	EVE536-07M5	EVE537-07M5	€ 5,95
10.0-m	EVE530-10M	EVE531-10M	EVE532-10M	EVE533-10M	EVE534-10M	EVE535-10M	EVE536-10M	EVE537-10M	€ 8,25

250 x 5m
€ 3,78

GigaTrue CAT6 S/FTP LSZH Patch Cables

High performance and immunity to EMI/RFI interference.



CAT6

- Meet and exceed ANSI/TIA/EIA-568-B.2-1 Category 6 component performance specifications.
- Ideal for Gigabit Ethernet, 622/155-Mbps ATM, Fast Ethernet and other high-speed applications.
- High-quality foil and braid shield gives excellent immunity to external electromagnetic fields.

TECH SPECS

Electrical:

Characteristic Impedance 100 ± 15 ohms @ 1–250 MHz

Delay Skew 45 ns (100 m) maximum

Physical and Environmental:

Cable Type F/UTP 4-pair stranded copper

Coding Scheme T568B

Gauge 26 AWG

Insertion Life 2000 cycles minimum

Operating Temperature Range 0 to 60° C

Outside Cable Diameter 6.3 ± 0.3 mm

Plug Retention Force 310 N minimum

Connector RJ-45, 8P8C, gold-plated, 1.27 µm

Standards and Approvals:

ISO/IEC11801, EN50288, TIA/EIA 568B.2-1, CM(UL®), C(UL), IEC 60332-3 Cat C, IEC 61189-2C12, IPC4101-A



GigaTrue® S/FTP CAT6 250-MHz Patch Cables with Moulded Boots, Stranded, 26 AWG, RJ-45, 4-Pair, T568B, LSZH, Straight-Pinned

Item	Grey	Blue	Green	Red	Yellow	Beige	Orange	Black	Price
0.5-m	EVE630-00M5	EVE631-00M5	EVE632-00M5	EVE633-00M5	EVE634-00M5	EVE635-00M5	EVE636-00M5	EVE637-00M5	€ 2,30
1.0-m	EVE630-01M	EVE631-01M	EVE632-01M	EVE633-01M	EVE634-01M	EVE635-01M	EVE636-01M	EVE637-01M	€ 2,85
1.5-m	EVE630-01M5	EVE631-01M5	EVE632-01M5	EVE633-01M5	EVE634-01M5	EVE635-01M5	EVE636-01M5	EVE637-01M5	€ 3,50
2.0-m	EVE630-02M	EVE631-02M	EVE632-02M	EVE633-02M	EVE634-02M	EVE635-02M	EVE636-02M	EVE637-02M	€ 4,10
3.0-m	EVE630-03M	EVE631-03M	EVE632-03M	EVE633-03M	EVE634-03M	EVE635-03M	EVE636-03M	EVE637-03M	€ 5,35
5.0-m	EVE630-05M	EVE631-05M	EVE632-05M	EVE633-05M	EVE634-05M	EVE635-05M	EVE636-05M	EVE637-05M	€ 8,10
7.5-m	EVE630-07M5	EVE631-07M5	EVE632-07M5	EVE633-07M5	EVE634-07M5	EVE635-07M5	EVE636-07M5	EVE637-07M5	€ 11,35
10.0-m	EVE630-10M	EVE631-10M	EVE632-10M	EVE633-10M	EVE634-10M	EVE635-10M	EVE636-10M	EVE637-10M	€ 14,90

250 x 10m
€ 13,11

SpaceGAIN

CAT5e and CAT6 90° Angle Patch Cables

Cable designed for 10/100/1000BASE-T applications.



Down-Down Cable

The clip is on the bottom and the cable runs down.
Shown: EVNSL21E-0003-90DD

Down-Up Cable

The down clip faces down and the cable runs down.
The up clip faces down and the cable runs up.
Shown: EVNSL23E-0003-90DU

Right-Straight Cable

The clip is on the bottom and the connector faces right.
Shown: EVNSL21E-0003-90RS

Left-Straight Cable

The clip is on the bottom and the connector faces left.
Shown: EVNSL27E-0003-90LS



SpaceGAIN 90° Angle Patch Cable (UTP) Down-Up Series
CAT5e 100-MHz

Item	Code	Price
0.3-m	EVNSLXXE-0001-90YY	€ 1,85
0.9-m	EVNSLXXE-0003-90YY	€ 2,20
1.8-m	EVNSLXXE-0006-90YY	€ 2,85
3.0-m	EVNSLXXE-0010-90YY	€ 3,75
4.5-m	EVNSLXXE-0015-90YY	€ 4,85



100 x 3m
€ 3,45

CAT6 250-MHz

Item	Code	Price
0.3-m	EVNSLXXX-0001-90YY	€ 2,75
0.9-m	EVNSLXXX-0003-90YY	€ 3,25
1.8-m	EVNSLXXX-0006-90YY	€ 4,20
3.0-m	EVNSLXXX-0010-90YY	€ 5,55
4.5-m	EVNSLXXX-0015-90YY	€ 7,20

250 x 4,5m
€ 6,34

Tight fit? These cables have the right angle to save space.

- Save up to four inches of space in crowded cabinets.
- Make tight wallplate connections behind furniture and equipment.
- Tame cable chaos on your desktop.
- For the perfect fit, choose from a whole family of cables with up, down, left, and right angled connectors.
- Meet or exceed CAT5e or CAT6 specifications.
- Avoid excessive bends and reduce stress on the cable.
- Feature four 24 AWG unshielded twisted wires, RJ-45 connectors, molded boots, and a PVC jacket.
- Connectors have gold-plated contacts.



Down cable: cable clip faces down and the cable angles down.
Shown: EVNSL24E-0003-90DS



Right cable: cable clip faces up and cable exits to the left.
Shown: EVNSL21E-0003-90RS

To order, replace the "XX" with the number assigned to each color.

CAT5e Blue = 21 Red = 23 Yellow = 24 Black = 27
CAT6 Blue = 216 Red = 236 Yellow = 246 Black = 276

Then replace the "YY" with the letters assigned to each orientation.

90° Down - 180° Straight = DS 90° Down - 180° Up = DU
90° Down - 180° Down = DD 90° Right - 180° Straight = RS
90° Left - 180° Straight = LS

Example: EVNSL21E-0003-90RS signifies a CAT5e blue, 90 cm, 90° right connector to a straight connector cable.

SpaceGAIN 45° Angled-Port Patch Panels

Free up valuable space - angled design eliminates the need for horizontal cable managers.

- Reduce cable congestion in crowded cabinets.
- 45° downward angled ports eliminate cable looping.
- Ideal for retrofitting cabinets.
- Protect bend radius.
- Eliminate cable managers.
- CAT5e and CAT6 24- and 48-port models.



JPM648-45ANG - 48 port model.
Also available as a 24 port model.
CAT5e and CAT6.



JPM5E48-ANG - 48 port model.
Also available as a 24 port model
(JPM624-ANG). CAT5e and CAT6.

Retrofitting a cabinet? Installing newer, deeper equipment? Want to make sure your cabinet door closes?

In high-density configurations, cabinet space is becoming an increasingly scarce commodity. Gain space in your cabinets (and ensure the door will close) by using our exclusive SpaceGAIN 90° Patch Cables. You can save up to 10cm of space in front of your patch panels and rack-mounted equipment. That's significant when every centimeter counts in today's high-density data centers. If you've ever retrofitted cabinets or installed extra-deep equipment, you've probably run into the problem of not being able to close the cabinet door. SpaceGAIN solves the problem. Better yet, you'll save both time and money by eliminating cable managers. The down and up cables are ideal for data center applications. Use them for high-density patch panel connections. Tame the cable chaos on your desk with the right and left cables. Use them for quick laptop connects and disconnects. They're also ideal for tight wallplate connections behind desks and other furniture.



FREE SAMPLE
Register on our website and receive a free LockPORT sample.



LockPORT™ Security Patch Cables

Secure your ports from unauthorized access and accidental disconnects.

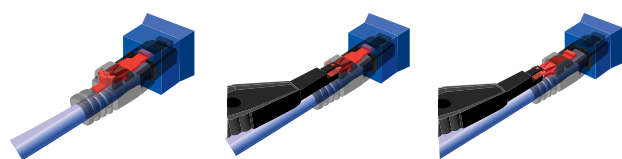
Layer 1 security tool

Boost your network security starting at the port. Here's one of the simplest and inexpensive, yet most effective ways you can increase your physical security.

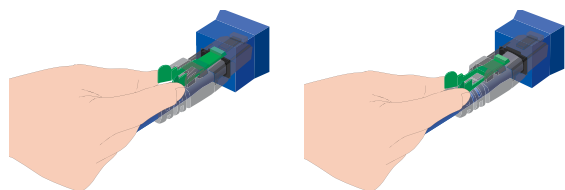
Simply insert the cable into an outlet or port to secure the connection. The cables stay in place until you take them out. If network cable connections can't be disrupted — either intentionally or accidentally—your network can't be brought down.

Two levels of security

Key Lock boots offer the highest security level. They use a specially-designed red clip, that stays locked until you release it with the Removal Key.



Secure Lock boots use a green butterfly-style clip, that needs to be squeezed to pull out the cable. These cables are perfect to prevent accidental disconnects, but still give people access to the ports.



Choose your LockPORT Patch Cables

LockPORT Patch Cables fit into any standard compliant RJ-45 outlet or LC fiber port and are ideal for a variety of applications.

Choose from three types of cables:

Key locks on both ends.



Secure locks on both ends.



Key lock on one end and a secure lock on the other.



See www.blackbox.be/LockPORT for more info and product variations.

LockPORT CAT6 Key Locking Patch Cable

Item	Code	Price
22.9-cm	C6UR-KL-STR-6INXX	€ 9,55
0.3-m	C6UR-KL-STR-001XX	€ 9,70
0.9-m	C6UR-KL-STR-003XX	€ 10,35
1.5-m	C6UR-KL-STR-005XX	€ 11,00
1.8-m	C6UR-KL-STR-006XX	€ 11,35
2.1-m	C6UR-KL-STR-007XX	€ 11,70
3.0-m	C6UR-KL-STR-010XX	€ 12,65
4.5-m	C6UR-KL-STR-015XX	€ 14,30
6.0-m	C6UR-KL-STR-020XX	€ 15,90
7.6-m	C6UR-KL-STR-025XX	€ 17,55
Removal tool	KEY-CL	€ 5,50

50 x 1.8m
€ 10,78

To order, replace the "XX" with the number assigned to each color.

Black = BK Blue = BL Grey = GY Green = GN Orange = OR
Red = RD Violet = VT White = WH Yellow = YL

Intelligent RJ-45 patch cords

Identify your cables at the speed of light!

When you need to re-route or change a patch cable in crowded cabling cabinet, you can't be 100% sure you'll pick the right cable, unless both ends are clearly identified. Disconnecting the wrong cables may break security or vital processes and cost your enterprise unpredictable downtimes. As a solution to these drawbacks, Black Box introduces this range of patented patch cords that feature two embedded plastic optic fibers. No need to unplug the cable, just place the Light Injector over the RJ-45 plug at one end and the opposite end will light up for a 100% failsafe identification.

PCI-6Patch

100% tested, ready for 10-Gbps Ethernet applications.

The PatchSee® system was designed with six reasons that make it unique:

- No handling errors during maintenance.
- Time saving because cables are quickly identified in all circumstances.
- Compatible with all cabling systems and equipment.
- Cost-effective solution.
- Enhanced flexibility with a choice of 16 coloured clips.
- Reduced maintenance cost and simplified testing.



PatchSee
"intelligent patch cord"

1. Switch the light on.



2. Place the light injector over the boot of the patch cord.



3. See the light coming out at the other end.



FREE SAMPLE

Sent to you within 48 HOURS

Get a FREE demonstration kit of the PatchSee optical technology at:

www.patchsee.com/en/BlackBox-339

10-Gigabit CAT6a Patch Cable (UTP)

Cable designed for 10/100/1000BASE-T applications and 10-Gigabit applications.

- 10-Gigabit Ethernet (10-GbE) qualified.
- Maximum bandwidth exceeds 625 MHz.
- Category 6a ANEXT component compliant.
- Exceeds 10GBASE-T link segment requirements.
- PoE and PoE+ ready. PoE rated to four times the standard.
- Use in analog and digital (VoIP) voice, and audio/video applications.
- Supports IEEE 802.3af and is DTE power compliant.



10-Gigabit CAT6a Patch Cable (UTP)

Item	Code	Price
0.9-m	EVNSL6A-003	€ 12,35
1.5-m	EVNSL6A-005	€ 14,80
2.1-m	EVNSL6A-007	€ 17,20
3.0-m	EVNSL6A-010	€ 20,85
4.2-m	EVNSL6A-015	€ 27,10
6.0-m	EVNSL6A-020	€ 32,95

250 x 3m
€ 18,35

10-Gigabit CAT6a Patch Cable (F/UTP)

CAT6a cable designed for 10GBASE-T applications.

- Meets or exceeds all augmented CAT6 performance requirements.
- Fully shielded construction virtually eliminates Alien Crosstalk.
- Supports high-end applications such as 10GBASE-T and beyond.
- Compatible with T568A and T568B wiring.



CAT6a F/UTP Patch Cable, Screened, LSZH, Stranded

Item	Code	Price
1.0-m	Gray EVNSL6F-70-001M	€ 16,25
	Blue EVNSL6F-71-001M	€ 16,25
	White EVNSL6F-80-001M	€ 16,25
2.0-m	Gray EVNSL6F-70-002M	€ 18,25
	Blue EVNSL6F-71-002M	€ 18,25
	White EVNSL6F-80-002M	€ 18,25
3.0-m	Gray EVNSL6F-70-003M	€ 20,30
	Blue EVNSL6F-71-003M	€ 20,30
	White EVNSL6F-80-003M	€ 20,30
5.0-m	Gray EVNSL6F-70-005M	€ 24,35
	Blue EVNSL6F-71-005M	€ 24,35
	White EVNSL6F-80-005M	€ 24,35



50 x 2m
€ 17,34



Can't find what you need? Ask us!



If we do not have it, we will build it for you, to your specs.

CAT6a 600-MHz S/FTP Patch Cable

CAT6a PIMF cable designed for 10GBASE-T applications.

- Meets or exceeds all augmented CAT6 performance requirements.
- Tested to 600 MHz.
- Fully shielded construction virtually eliminates alien crosstalk.



TECH SPECS

Delay Skew 25 ns
Diameter (Outside) 22" (0.57 cm)
Impedance 100 ± 22 ohms at 100 MHz; 100 ± 25 ohms @ 200–600 MHz
Insulation Foamed PE
Mutual Capacitance 4.6 f/100 m at 1 kHz
Propagation Delay 537.6 ns @ 100 MHz; 536.28 ns @ 250 MHz; 535.47 ns @ 600 MHz
RoHS Yes
Standards ISO/IEC 11801; IEC 61156-6; EN50288-4-2; UL® 444 CM



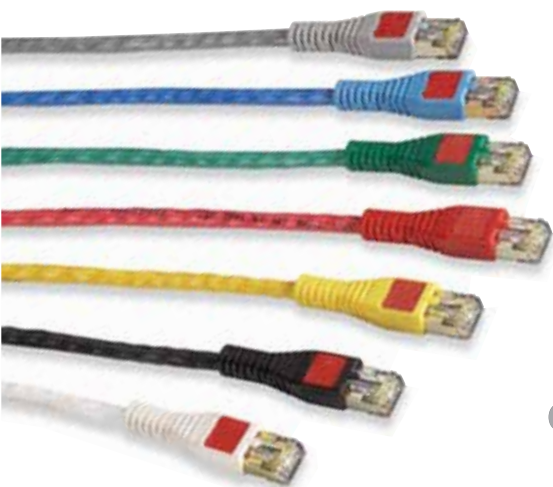
CAT6a S/FTP Patch Cable, 26 AWG, Stranded, PVC, Blue

Item	Code	Price
0.9-m	EVNSL741-0003	€ 5,65
1.8-m	EVNSL741-0006	€ 7,40
3.0-m	EVNSL741-0010	€ 9,40
4.5-m	EVNSL741-0015	€ 12,05

250 x 3m
€ 8,27

CAT6 High-Density Data Center Patch Cable (UTP)

Designed for data centers, blade servers, patch panels, and tight spaces.



CAT6

- Patent-pending push-pull design makes it easy to insert and remove cables.
- Low-profile boot enables side-by-side stackability.
- Boot provides excellent bend relief and has no thumb tab.
- 250-MHz cable supports 1-Gigabyte applications.



CAT6 High-Density Data Center Patch Cable (UTP), RJ-45, TS68B, Stranded, PVC

Item	Code	Price
0.9-m Gray EVNSL6-XX-BS-0003	€ 10,60	
1.5-m Gray EVNSL6-XX-BS-0005	€ 11,30	
2.1-m Gray EVNSL6-XX-BS-0007	€ 12,05	
3.0-m Gray EVNSL6-XX-BS-0010	€ 13,10	
4.5-m Gray EVNSL6-XX-BS-0015	€ 14,90	
6.0-m Gray EVNSL6-XX-BS-0020	€ 16,70	

50 x 1,5m
€ 10,74

To order replace the 'XX' with the number assigned to each color.

Gray = 70 Blue = 71 White = 80

Category 7 S/FTP Patch Cable

Performance to 10 Gbps and beyond—exceeding all 10GBASE-T requirements.

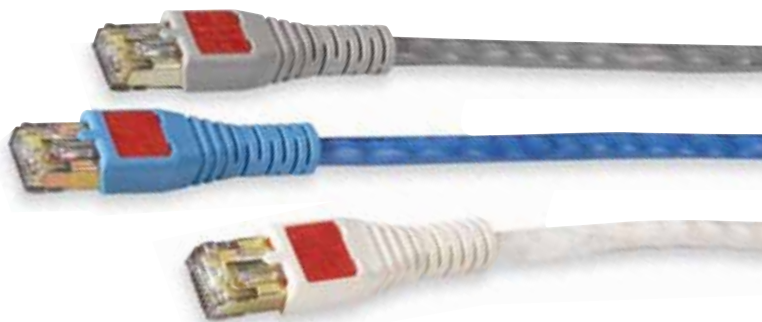


- Get twice the bandwidth of Category 7/ Class F specifications—1.2 GHz instead of 600 MHz when used in a TERA® system.
- Patented TERA shield quadrant plug design isolates pairs, virtually eliminating crosstalk.
- Enables multiple applications from a single 4-pair outlet.
- Standards include:
 - ISO/IEC 11801 Class F
 - IEC 60332-1, 60754, 61034-08.
- ♦♦ **WARRANTY** — Lifetime

RoHS — Yes

CAT6a High-Density Data Center Patch Cable (UTP)

Cable designed especially for blade servers and tight spaces.



CAT6a

- Patent-pending push-pull boot design.
- Unique, slim design makes this cable perfect for high-density data center equipment, such as blade servers, patch panels, and other equipment for RJ-45 outlets.
- Easily insert and remove cable in blade servers and other tight-fitting areas.
- Low-profile boot design for side-by-side stackability.
- Boot provides excellent bend relief and has no thumb tab that can snag.

CAT6a High-Density Data Center Patch Cable (UTP), RJ-45, TS68B, Stranded, CM

Item	Code	Price
0.9-m Gray EVNSL6A-XX-BS-0003	€ 13,80	
1.5-m Gray EVNSL6A-XX-BS-0005	€ 15,00	
2.1-m Gray EVNSL6A-XX-BS-0007	€ 16,15	
3.0-m Gray EVNSL6A-XX-BS-0010	€ 18,00	
4.5-m Gray EVNSL6A-XX-BS-0015	€ 20,95	
6.0-m Gray EVNSL6A-XX-BS-0020	€ 24,00	

100 x 4.5m
€ 19,27

To order replace the 'XX' with the number assigned to each color.

Gray = 70 Blue = 71 White = 80



Item	Code	List Price
Category 7 S/FTP Patch Cable, LSZH, Stranded, 26 AWG, PVC, White		
1-Pair		
1-m (3.2-ft.)	EVNSL71-80-001M	Call
2-m (6.5-ft.)	EVNSL71-80-002M	Call
3-m (9.8-ft.)	EVNSL71-80-003M	Call
5-m (16.4-ft.)	EVNSL71-80-005M	Call
4-Pair		
1-m (3.2-ft.)	EVNSL74-80-001M	Call
2-m (6.5-ft.)	EVNSL74-80-002M	Call
3-m (9.8-ft.)	EVNSL74-80-003M	Call
5-m (16.4-ft.)	EVNSL74-80-005M	Call

For information on CAT7 cable solutions please call Tech Support at +32.2.749.99.55 or visit www.blackbox.be.

Guidelines for choosing

The basics of fiber optic cable.

Fiber optic cable is one of the fastest-growing transmission mediums for both new cabling installations and upgrades, including backbone, horizontal, and even desktop applications. Fiber offers a number of advantages over copper.

Greater bandwidth

— Fiber provides far greater bandwidth than copper and has standardized performance up to 10 Gbps. But fiber also gives network designers future-proofing insurance with possible speeds up to 40 Gbps or even 100 Gbps. While not currently a standard, these speeds could become a reality in future proposals and ratifications. Keep in mind that fiber speeds are dependent on the type of cable used. Single-mode cable offers far greater distance than either 62.5- or 50-micron multimode cable. In addition, fiber optic cable can carry more information with greater fidelity than copper wire. That's why telephone and CATV companies are converting to fiber.



Low attenuation and greater distance — Because the fiber optic signal is made of light, very little signal loss occurs during transmission, and data can move at higher speeds and greater distances. Fiber does not have the 100-meter (328-ft.) distance limitation of unshielded twisted-pair copper (without a booster). Fiber distances can range from 300 meters (984.2 ft.) to 40 kilometers (24.8 mi.), depending on the style of cable, wavelength, and network. (Fiber distances are typically measured in metric units.) Because fiber signals need less boosting than copper ones do, the cable performs better.

Security — Your data is safe with fiber cable. It doesn't radiate signals and is extremely difficult to tap. If the cable is tapped, it's very easy to monitor because the cable leaks light, causing the entire system to fail. If an attempt is made to break the physical security of your fiber system, you'll know it.

Fiber networks also enable you to put all your electronics and hardware in one central location, instead of having wiring closets with equipment throughout the building.

Immunity and reliability — Fiber provides extremely reliable data transmission. It's completely immune to many environmental factors that affect copper cable. The core is made of glass, which is an insulator, so no electric current can flow through. It's immune to electromagnetic interference and radio-frequency interference (EMI/RFI), crosstalk, impedance problems, and more. You can run fiber cable next to industrial equipment without worry. Fiber is also less susceptible to temperature fluctuations than copper and can be submerged in water.

Design — Fiber is lightweight, thin, and more durable than copper cable. Plus, fiber optic cable has pulling specifications that are up to 10 times greater than copper cable's. Its small size makes it easier to handle, and it takes up much less space in cabling ducts. Although fiber is still more difficult to terminate than copper, advancements in connectors are making termination easier. In addition, fiber is actually easier to test than copper cable.

Migration — The proliferation and lower costs of media converters are making copper to fiber migration much easier. The converters provide seamless links and enable the use of existing hardware. Fiber can be incorporated into networks in planned upgrades.

Standards — TIA/EIA-785, ratified in 2001, provides a cost-effective migration path from 10-Mbps Ethernet to 100-Mbps Fast Ethernet over fiber (100BASE-SX). An addendum to the standard eliminates limitations in transceiver designs. In addition, in June 2002, the IEEE approved a 10-Gigabit Ethernet (10-GbE) standard.

Costs — The cost for fiber cable, components, and hardware is steadily decreasing. Installation costs for fiber are higher than copper because of the skill needed for terminations. Overall, fiber is more expensive than copper in the short run, but it may actually be less expensive in the long run. Fiber typically costs less to maintain, has much less downtime, and requires less networking hardware. And fiber eliminates the need to recable for higher network performance.

Black Box Explains

Fiber optic cable construction.

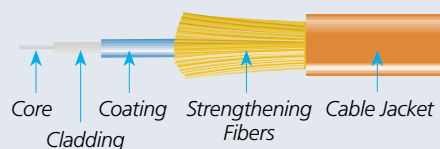
Core—This is the physical medium that transports optical data signals from an attached light source to a receiving device. The core is a single continuous strand of glass or plastic that's measured in microns (μm) by the size of its outer diameter. The larger the core, the more light the cable can carry.

All fiber optic cable is sized according to its core's outer diameter. The three multimode sizes most commonly available are 50, 62.5, and 100 microns. Single-mode cores are generally less than 9 microns.

Cladding—This is the thin layer that surrounds the fiber core and serves as a boundary that contains the light waves and causes the refraction, enabling data to travel throughout the length of the fiber segment.

Coating—This is a layer of plastic that surrounds the core and cladding to reinforce and protect the fiber core. Coatings are measured in microns and can range from 250 to 900 microns.

Strengthening fibers—These components help protect the core against crushing forces and excessive tension during installation.



The materials can range from aramid yarn (Kevlar®) to wire strands to gel-filled sleeves.
Cable jacket—This is the outer layer of any cable.

fiber optic cable.

Buyer's Guide | Multimode Fiber Types and Standards

Industry Standards			Fiber Type (µm)	Attenuation ⁽⁴⁾ Typical Cabled Max (dB/km)		Bandwidth (MHz-km) Overfill Launch (OFL)		Bandwidth (MHz-km) Effective Modal Bandwidth (EMB) (Also known as Laser BW)
ISO/IEC 11801	IEC 60793-2-10	TIA		850 nm	1300 nm	850 nm	1300 nm	850 nm
OM1 ⁽¹⁾	A1b	492-AAAA	62.5/125	3.5	1.5	200	500	—
OM2 ⁽²⁾	A1a.1	492-AAAB	50/125	3.5	1.5	500	500	—
OM3	A1a.2	492-AAAC	50/125	3.5	1.5	1500	500	2000
OM4 ⁽³⁾	A1a.3	492-AAAD	50/125	3.5	1.5	3500	500	4700

ISO/IEC 11801 "Generic Cabling for Customer Premises"; IEC 60793-2-10 "Product Specifications - Sectional Specification for Category A1 Multimode Fibers"; TIA/EIA-492-AAAx "Detail Specification for Class 1a Graded-Index Multimode Optical Fibers"; ⁽¹⁾ OM1 is typically a 62.5-µm fiber, but can also be a 50-µm fiber; ⁽²⁾ OM2 is typically a 50-µm fiber, but can also be a 62.5-µm fiber; ⁽³⁾ OM4 is also a 50-µm laser-, but with higher bandwidth. Ratified October 2009.; ⁽⁴⁾ The ISO/IEC 11801 standard stipulates maximum cabled attenuation. The IEC and TIA fiber standards call for lower (and varied) bare fiber attenuation.

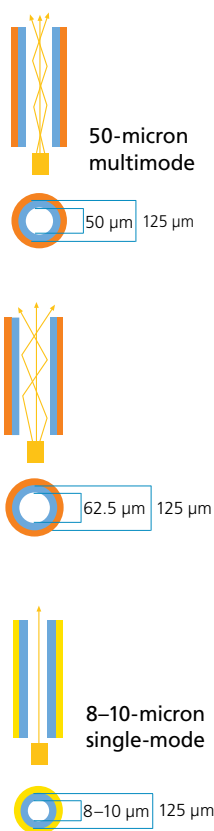
Types of fiber cable.

Multimode cable has a large-diameter core and multiple pathways of light. It can be used for most general data and voice applications, such as adding segments to an existing network.

It comes in two core sizes: 50-micron and 62.5-micron. Both have the same cladding diameter of 125 microns, but 50-micron fiber cable features a smaller core (the light-carrying portion of the fiber). Although both can be used in the same way, 50-micron cable is recommended for premise applications (backbone, horizontal, and intrabuilding links) and should be considered for new installations. Both also use either LED or laser light sources. The big difference between them is that 50-micron cable provides longer link lengths and/or higher speeds, particularly in the 850-nm wavelength.

Single-mode cable has a small (8–10-micron) glass core and only one pathway of light. With only a single wavelength of light passing through its core, single-mode realigns the light toward the core center instead of simply bouncing it off the edge of the core as multimode does.

Single-mode provides 50 times more distance than multimode, so it's typically used in long-haul network links spread out over extended areas, including CATV and campus backbone applications. Single-mode cable also provides higher bandwidth, so you can use a pair of single-mode fiber strands full-duplex for up to twice the throughput of multimode.



Fiber standards.

10BASE-FL 10-Mbps Ethernet over multimode fiber.

100BASE-SX 100-Mbps Ethernet over 850-nm multimode. Maximum length is 300 meters. Longer distances are possible with single-mode. Backwards compatible with 10BASE-FL.

100BASE-FX 100-Mbps Ethernet (Fast Ethernet) over 1300-nm multimode. Maximum length is 400 meters for half-duplex connections (to ensure collisions are detected) or 2 kilometers for full-duplex. Longer distances are possible with single-mode. Not backwards compatible with 10BASE-FL.

1000BASE-BX 100-Mbps Ethernet over single-mode. Unlike 100BASE-FX, which uses a pair of fibers, 1000BASE-BX uses a single fiber strand and wavelength-division multiplexing, which splits the signal into transmit and receive wavelengths (either 1310 and 1550 nm or 1310 and 1490 nm). Distance is up to 10, 20, or 40 kilometers.

1000BASE-SX 1-Gbps Ethernet (Gigabit Ethernet) over 850-nm multimode up to 550 meters, depending on the what micron cable is used.

1000BASE-LX 1-Gbps Ethernet over 1300-nm multimode up to 550 meters. Optimized for longer distances (up to 10 kilometers) over single-mode.

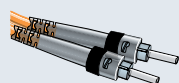
1000BASE-LH 1-Gbps Ethernet over single-mode up to 100 kilometers.

10GBASE-SR 10-Gbps Ethernet (10-Gigabit Ethernet) over 850-nm multimode. It has a range between 26 and 82 meters, depending on whether you're using 50- or 62.5 micron cable. It also supports 300 meters over 2000 MHz/km multimode.

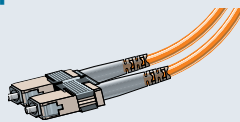
10GBASE-LX4 10-Gbps Ethernet over 1300-nm multimode. Uses wavelength-division multiplexing to support up to 300 meters over multimode. Also supports 10 kilometers over single-mode.

Black Box Explains

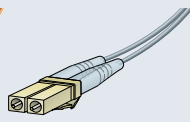
Fiber connectors.



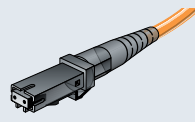
The **ST® connector**, which uses a bayonet locking system, is the most common connector.



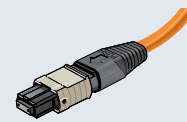
The **SC connector** features a molded body and a push-pull locking system.



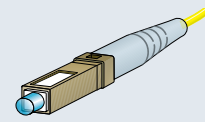
The **LC connector**, with a small-form-factor connector, features a ceramic ferrule and looks like a mini SC connector.



The **MT-RJ connector** has a molded body, a small-form RJ-style connector, and uses cleave-and-leave splicing.



The **MTO/MTP® connector** uses high-fiber-count ribbon cable. It's used in high-density fiber applications.



The **MU connector** resembles a small SC connector, has a simple push-pull latching connection; and is for high-density areas.

Premium Ceramic, Multimode, 62.5-Micron Fiber Optic Patch Cable

OM1

Our best terminated multimode fiber optic cable with precision ceramic connectors!

- Ceramic connectors provide low signal loss of 0.3 dB, high reliability, and a long life.
- All feature multimode 62.5-µm/125-µm construction and aramid strength elements.
- Choose from duplex or simplex.
- Available in ST®, SC, LC, and MT-RJ connector styles.
- Also available with a PVC jacket.



TECH SPECS

Cable Size ST, SC: 2.9 mm (0.11")/6.0 mm (0.23"); LC: 2.0 mm (0.07")/4.0 mm (0.15"); MT-RJ: 1.8 mm (0.07")/3.7 mm (0.14")

Core Diameter 62.5 µm

Fiber Type Multimode (graded index)

Insertion Loss ≤ 0.3 dB

Jacket Plenum: LSZH

Standards IEC 60793-2

Temperature Operating: -20 to +75° C; Storage: -40 to +85° C

Wavelength 850/1300 nm

Premium Ceramic, Multimode OM1, 62.5-Micron Fiber Optic Patch Cable, LSZH, DUPLEX, ST-ST

Item	Code	Price
1.0-m	EFE073-001M	€ 8,80
2.0-m	EFE073-002M	€ 9,60
3.0-m	EFE073-003M	€ 10,40
5.0-m	EFE073-005M	€ 12,00
10.0-m	EFE073-010M	€ 16,00
15.0-m	EFE073-015M	€ 20,00
20.0-m	EFE073-020M	€ 24,00

10 x 1m
€ 7,92

ST-SC

Item	Code	Price
1.0-m	EFE074-001M	€ 8,80
2.0-m	EFE074-002M	€ 9,60
3.0-m	EFE074-003M	€ 10,40
5.0-m	EFE074-005M	€ 12,00
10.0-m	EFE074-010M	€ 16,00
15.0-m	EFE074-015M	€ 20,00
20.0-m	EFE074-020M	€ 24,00

SC-SC

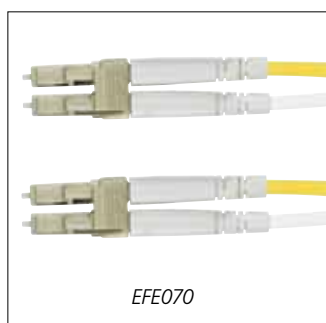
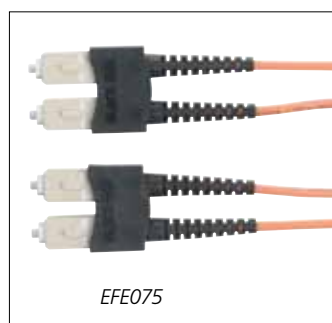
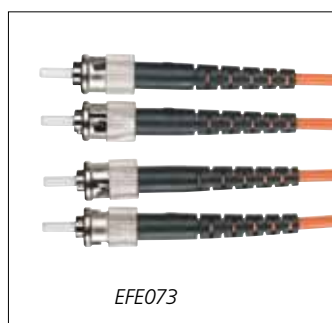
Item	Code	Price
1.0-m	EFE075-001M	€ 8,80
2.0-m	EFE075-002M	€ 9,60
3.0-m	EFE075-003M	€ 10,40
5.0-m	EFE075-005M	€ 12,00
10.0-m	EFE075-010M	€ 16,00
15.0-m	EFE075-015M	€ 20,00
20.0-m	EFE075-020M	€ 24,00



LC-LC

Item	Code	Price
1.0-m	EFE070-001M	€ 12,00
2.0-m	EFE070-002M	€ 12,80
3.0-m	EFE070-003M	€ 13,60
5.0-m	EFE070-005M	€ 15,20
10.0-m	EFE070-010M	€ 19,20
15.0-m	EFE070-015M	€ 23,20
20.0-m	EFE070-020M	€ 27,20

50 x 5m
€ 12,16





OM1

LC-ST

Item	Code	Price
1.0-m	EFE072-001M	€ 11,60
2.0-m	EFE072-002M	€ 12,40
3.0-m	EFE072-003M	€ 13,20
5.0-m	EFE072-005M	€ 14,80
10.0-m	EFE072-010M	€ 18,80
15.0-m	EFE072-015M	€ 22,80
20.0-m	EFE072-020M	€ 26,80

25 x 3m
€ 11,22

MT-RJ-MT-RJ

Item	Code	Price
1.0-m	EFE076-001M	€ 11,60
2.0-m	EFE076-002M	€ 12,40
3.0-m	EFE076-003M	€ 13,20
5.0-m	EFE076-005M	€ 14,80
10.0-m	EFE076-010M	€ 18,80
15.0-m	EFE076-015M	€ 22,80
20.0-m	EFE076-020M	€ 26,80

LC-ST

Item	Code	Price
1.0-m	EFE071-001M	€ 11,60
2.0-m	EFE071-002M	€ 12,40
3.0-m	EFE071-003M	€ 13,20
5.0-m	EFE071-005M	€ 14,80
10.0-m	EFE071-010M	€ 18,80
15.0-m	EFE071-015M	€ 22,80
20.0-m	EFE071-020M	€ 26,80

10 x 15m
€ 20,52

MT-RJ-ST

Item	Code	Price
1.0-m	EFE077-001M	€ 11,60
2.0-m	EFE077-002M	€ 12,40
3.0-m	EFE077-003M	€ 13,20
5.0-m	EFE077-005M	€ 14,80
10.0-m	EFE077-010M	€ 18,80
15.0-m	EFE077-015M	€ 22,80
20.0-m	EFE077-020M	€ 26,80

LC-MT-RJ

Item	Code	Price
1.0-m	EFE079-001M	€ 11,60
2.0-m	EFE079-002M	€ 12,40
3.0-m	EFE079-003M	€ 13,20
5.0-m	EFE079-005M	€ 14,80
10.0-m	EFE079-010M	€ 18,80
15.0-m	EFE079-015M	€ 22,80
20.0-m	EFE079-020M	€ 26,80

MT-RJ-SC

Item	Code	Price
1.0-m	EFE078-001M	€ 11,60
2.0-m	EFE078-002M	€ 12,40
3.0-m	EFE078-003M	€ 13,20
5.0-m	EFE078-005M	€ 14,80
10.0-m	EFE078-010M	€ 18,80
15.0-m	EFE078-015M	€ 22,80
20.0-m	EFE078-020M	€ 26,80

50 x 2m
€ 9,92



Black Box Explains

LSZH (Low Smoke Zero Halogen).



The European Market is demanding that cables used in LANs, WANs, etc. meet this specifications. The IEC 60332-1 governs the Flame Retardant Grade specifications in reference to LSZH cables.

Essentially, the compound used in manufacturing cables meeting the above specifications reduces the amount of dangerous/poisonous gases in case of fire. The main difference in specifications between IEC 60332-1 versus UL 1581, UL 1666 and UL 910 is that the cable under the IEC spec can continue to burn while still emitting very low gases. The UL specs demand that the flame be extinguished, but it can still emit dangerous/poisonous gases.

Today, virtually all medium and large installations in Europe must meet the IEC specification. Many public authorities are already demanding that new installations must meet IEC60332-3, which is a more rigorous flammability specification for LSZH.

Physically, PVC and LSZH are very different. PVC patch cords are very soft, LSZH patch cords are more rigid because they contain the flame-retardant compound, and they are aesthetically more pleasing.

Fiber Optic Multimode OM2 LSZH Patch Cables (50-/125-µm) **OM2**

Our premier fiber optic patch cables.

- Low-smoke zero halogen (LSZH) cable.
- Full traceability and test certification supplied with each assembly.
- Insertion loss value for every termination.
- 100% factory tested.
- All terminations exceed performance parameters set by industry standards.
- Also available with a PVC jacket.

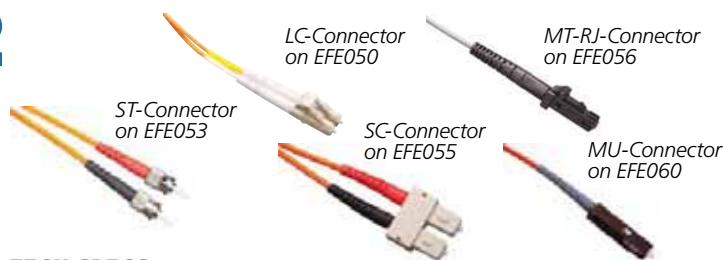
Fiber optic patch cables are an important factor in ensuring your network performs at its highest level. Patch cables are a critical component used between a patch panel or wall boxes and active components such as switches, routers, etc. They must be of the highest quality to ensure connectivity. Today's increasing demand for bandwidth requires patch cables that must exceed old industry standards. Our Black Box fiber optic patch cables meet or exceed an insertion loss of ≤ 0.3 dB per termination. Most importantly, these OM2 patch cables feature a low-smoke, zero halogen (LSZH) jacket and comply with European standard IEC 60332-1.

Multimode OM2, 50-micron Fiber Optic Patch Cables, LSZH, Duplex

Item	Code	Price
LC-LC	1.0-m EFE050-001M	€ 12,00
	2.0-m EFE050-002M	€ 12,80
	3.0-m EFE050-003M	€ 13,60
LC-LC	5.0-m EFE050-005M	€ 15,20
	10.0-m EFE050-010M	€ 19,20
	15.0-m EFE050-015M	€ 23,20
	20.0-m EFE050-020M	€ 27,20
LC-SC	1.0-m EFE051-001M	€ 11,60
	2.0-m EFE051-002M	€ 12,40
	3.0-m EFE051-003M	€ 13,20
LC-SC	5.0-m EFE051-005M	€ 14,80
	10.0-m EFE051-010M	€ 18,80
	15.0-m EFE051-015M	€ 22,80
	20.0-m EFE051-020M	€ 26,80
LC-ST	1.0-m EFE052-001M	€ 11,60
	2.0-m EFE052-002M	€ 12,40
	3.0-m EFE052-003M	€ 13,20
LC-ST	5.0-m EFE052-005M	€ 14,80
	10.0-m EFE052-010M	€ 18,80
	15.0-m EFE052-015M	€ 22,80
	20.0-m EFE052-020M	€ 26,80
ST-ST	1.0-m EFE053-001M	€ 8,80
	2.0-m EFE053-002M	€ 9,60
	3.0-m EFE053-003M	€ 10,40
ST-ST	5.0-m EFE053-005M	€ 12,00
	10.0-m EFE053-010M	€ 16,00
	15.0-m EFE053-015M	€ 20,00
	20.0-m EFE053-020M	€ 24,00
ST-SC	1.0-m EFE054-001M	€ 8,80
	2.0-m EFE054-002M	€ 9,60
	3.0-m EFE054-003M	€ 10,40
ST-SC	5.0-m EFE054-005M	€ 12,00
	10.0-m EFE054-010M	€ 16,00
	15.0-m EFE054-015M	€ 20,00
	20.0-m EFE054-020M	€ 24,00



50 x 20m
€ 21,44



TECH SPECS
Bend Radius (Minimum) 40 mm
Cable Diameter 2.8 mm
Cable Type Low-smoke zero halogen
Durability 1000 mating cycles; clean after every $25 \leq 0.2$ dB change
Fiber Type 50-/125-µm (OM2)
Insertion Loss < 0.3 dB
Operating Temperature -40 to +75° C



Item	Code	Price
SC-SC	1.0-m EFE055-001M	€ 8,80
	2.0-m EFE055-002M	€ 9,60
	3.0-m EFE055-003M	€ 10,40
	5.0-m EFE055-005M	€ 12,00
	10.0-m EFE055-010M	€ 16,00
	15.0-m EFE055-015M	€ 20,00
	20.0-m EFE055-020M	€ 24,00
MT-RJ MT-RJ	1.0-m EFE056-001M	€ 11,60
	2.0-m EFE056-002M	€ 12,40
	3.0-m EFE056-003M	€ 13,20
	5.0-m EFE056-005M	€ 14,80
	10.0-m EFE056-010M	€ 18,80
MT-RJ -ST	15.0-m EFE056-015M	€ 22,80
	20.0-m EFE056-020M	€ 26,80
	1.0-m EFE057-001M	€ 11,60
	2.0-m EFE057-002M	€ 12,40
	3.0-m EFE057-003M	€ 13,20
MT-RJ -ST	5.0-m EFE057-005M	€ 14,80
	10.0-m EFE057-010M	€ 18,80
	15.0-m EFE057-015M	€ 22,80
	20.0-m EFE057-020M	€ 26,80
MTRJ -SC	1.0-m EFE058-001M	€ 11,60
	2.0-m EFE058-002M	€ 12,40
	3.0-m EFE058-003M	€ 13,20
	5.0-m EFE058-005M	€ 14,80
	10.0-m EFE058-010M	€ 18,80
LC -MT -RJ	15.0-m EFE058-015M	€ 22,80
	20.0-m EFE058-020M	€ 26,80
	1.0-m EFE059-001M	€ 11,60
	2.0-m EFE059-002M	€ 12,40
	3.0-m EFE059-003M	€ 13,20
LC -MT -RJ	5.0-m EFE059-005M	€ 14,80
	10.0-m EFE059-010M	€ 18,80
	15.0-m EFE059-015M	€ 22,80
	20.0-m EFE059-020M	€ 26,80
MU-SC	1.0-m EFE060-001M	€ 21,45
	2.0-m EFE060-002M	€ 22,70
	3.0-m EFE060-003M	€ 23,95
MU-SC	5.0-m EFE060-005M	€ 26,45
	1.0-m EFE061-001M	€ 25,50
	2.0-m EFE061-002M	€ 26,75
MU-SC	3.0-m EFE061-003M	€ 29,20
	5.0-m EFE061-005M	€ 31,70

25 x 5m
€ 12,58

For E2000-SC Duplex and E2000-E2000 versions, see www.blackbox.be, codes EFE062 and EFE063.



10-Gigabit Multimode, 50-Micron Fiber Optic Patch Cable

Tight-buffered, 50-micron multimode cable that's laser optimized for 10-Gigabit Ethernet.

- Features tight-buffered fiber with an acrylate fiber coating and aramid yard strength members.
- Use with either LED or laser light sources. With a laser light source, bandwidth increases to 2000 MHz/km.
- Meets Optical Multimode 3 (OM3) standard for high-bandwidth communications. Rivals single-mode fiber in performance while being significantly less expensive to implement.
- Also available with a PVC jacket.

TECH SPECS

Attenuation 3.0 dB/km @ 850 nm; 1.0 dB/km @ 1300 nm
Bandwidth LED: 1500/500 MHz/km OFL @ 850/1310 nm;
Laser: 2000/500 MHz/km RML @ 850/1310 nm
Diameters Core: 50 µm; Cladding: 125 µm; Buffer: 900 µm
Fiber Type Laser-optimized multimode
Jacket LSZH
Operating Temperature -40 to +85° C

NOTE: Also available in distribution-style and zipcord bulk lengths. For cables with MT-RJ connectors, call our FREE Tech Support.

10-Gigabit Multimode OM3, 50-Micron Fiber Optic Patch Cable, LSZH, Duplex

Item	Code	Price
1.0-m	EFE353-001M	€ 9,60
2.0-m	EFE353-002M	€ 10,80
ST-ST	3.0-m EFE353-003M	€ 12,00
5.0-m	EFE353-005M	€ 14,40
10.0-m	EFE353-010M	€ 20,40

25 x 5m
€ 12,24

Item	Code	Price
1.0-m	EFE354-001M	€ 9,60
2.0-m	EFE354-002M	€ 10,80
ST-SC	3.0-m EFE354-003M	€ 12,00
5.0-m	EFE354-005M	€ 14,40
10.0-m	EFE354-010M	€ 20,40

Item	Code	Price
1.0-m	EFE352-001M	€ 12,00
2.0-m	EFE352-002M	€ 13,20
ST-LC	3.0-m EFE352-003M	€ 14,40
5.0-m	EFE352-005M	€ 16,80
10.0-m	EFE352-010M	€ 22,80



Item	Code	Price
1.0-m	EFE355-001M	€ 9,60
2.0-m	EFE355-002M	€ 10,80
SC-SC	3.0-m EFE355-003M	€ 12,00
5.0-m	EFE355-005M	€ 14,40
10.0-m	EFE355-010M	€ 20,40



Item	Code	Price
1.0-m	EFE351-001M	€ 12,00
2.0-m	EFE351-002M	€ 13,20
SC-LC	3.0-m EFE351-003M	€ 14,40
5.0-m	EFE351-005M	€ 16,80
10.0-m	EFE351-010M	€ 22,80

50 x 2m
€ 10,56

Item	Code	Price
1.0-m	EFE350-001M	€ 12,80
2.0-m	EFE350-002M	€ 14,00
LC-LC	3.0-m EFE350-003M	€ 15,20
5.0-m	EFE350-005M	€ 17,60
10.0-m	EFE350-010M	€ 23,60

10 x 1m
€ 11,52



Fiber Optic Multimode OM4 Patch Cables (50-/125-µm)

Connect high speed and legacy networks like Gigabit Ethernet, Fast Ethernet and Ethernet

- OM4 fiber conforms to ITU-651, TIA/EIA 492AAAD.
- Different connector performance range for specific application.
- For use in 10Gbps high speed LAN networks over a 400-m indicative length at 850 nm (SX) wavelength using a laser launch.
- For use in 1 Gbps high speed LAN networks over a 1000-m indicative length at 850 nm (SX) wavelength using a laser launch.

TECH SPECS

Attenuation (dB) 2.8 @ 850 nm/0.8 @ 1310 nm
Bandwidth OFL (MHz x km) - 3500 @ 850 nm; 500 @ 1310 nm; 4700 @ 850 nm
Diameters Core: 50 µm; Cladding: 125 µm; Buffer: 900 µm
Jacket LSZH
Operating Temperature -20 to +60° C

For information on OM4 cable solutions please call Tech Support at +32.2.749.99.55 or visit www.blackbox.be.

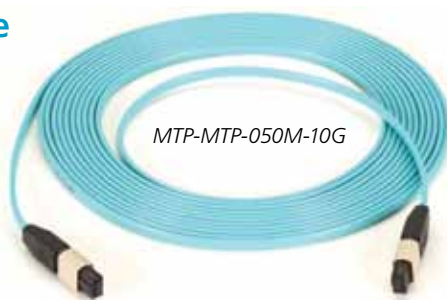
10-GbE MTP, 50-Micron Fiber Optic Cable

Get 12 strands of OM3 fiber in one cable.

- 12-fiber cable preterminated with MTP connectors at both ends.
- For use with MTP Fiber Optic Cassettes.
- OM3 cable supports 10-Gbps speed.
- Guaranteed for life!

TECH SPECS

Connector "A" MTP Female
Connector "B" MTP Female
Cable diameter 2.5mm x 4.7mm
Jacket PVC
Glass type OM3
Core diameter 50.0 +/- 2.5um
Cladding diameter 125 +/- 1.0um
Core cladding con =< 1.5 um
Crush resistance 2000 N / cm
Cladding non-circularity Less than 1.0%
Core non-circularity Less than 5%
Storage temperature -40 C to 75 C
Operating temperature -40 C to 75 C
Installation temperature -40 C to 75 C



Also available in 24 strands and Single-Mode.

OM3

10-Gigabit MTP Fiber Optic Cable, OM3, 50-Micron, 12-Strand Aqua

Item	Code	Price
Aqua	5-m MTP-MTP-005M-10G	€ 132,05
	10-m MTP-MTP-010M-10G	€ 192,10
	15-m MTP-MTP-015M-10G	€ 252,10
	20-m MTP-MTP-020M-10G	€ 312,15
	30-m MTP-MTP-030M-10G	€ 432,20
50-m MTP-MTP-050M-10G	€ 672,30	



MTP Fiber Optic Cassette

Break out one 12-fiber MTP cable into 6 duplex connectors.

- Plug-and-play preterminated cassette comes with one 12-fiber MTP connector on the back and 6 duplex LC connectors on the front.
- Use with 10-GbE, aqua 50-/125-μ multimode fiber.
- Fits all Black Box® fiber optic enclosures and panels.
- Preterminated and pretested.
- Guaranteed for life!

10-Gigabit MTP Fiber Optic Cassette, 12 Strand, OM3

Item	Code	Price
LC	MTPCS-LC-10G	€ 230,50
SC	MTPCS-SC-10G	€ 206,50



Call Tech Support for information about Single-Mode versions and enclosures to fit the cassettes, at +32.2.749.99.55.

Black Box Explains

The MTP Connector.

MTP® is a connector for multifiber ribbon cable that generally contains 6, 8, 12, or 24 fibers. The MTP connector, combined with lightweight ribbon cable, represents a huge technological advance over traditional multifiber cables. It's lighter, more compact, easier to install, and less expensive.

The MTP connector is similar to the MT-RJ connector but supports from 6 to 24 fibers. The MTP's ferrule surface of 2.45 x 6.40 mm is slightly bigger than the MT-RJ's, and the latching mechanism works with a sliding sleeve latch rather than a push-in latch.

The MTP connector can be either male or female. You can tell the male connector by the two alignment pins protruding from the end of the ferrule. The MTP ferrule is generally flat for multimode applications and angled for single-mode applications.

Space-saving!

A single MTP connector replaces up to 24 standard connectors. This very high density means lower space requirements and reduced costs for your installation.

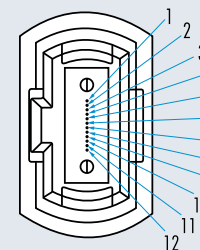
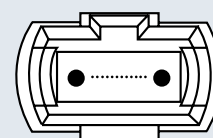
Time- and money-saving, too!

Traditional, tight-buffered multifiber cable needs to have each fiber individually terminated by a skilled technician. This is, of course, both expensive and time consuming.

But MTP fiber optic cable, which carries multiple fibers, comes preterminated. Just plug it in and you're ready to go!

So easy to use.

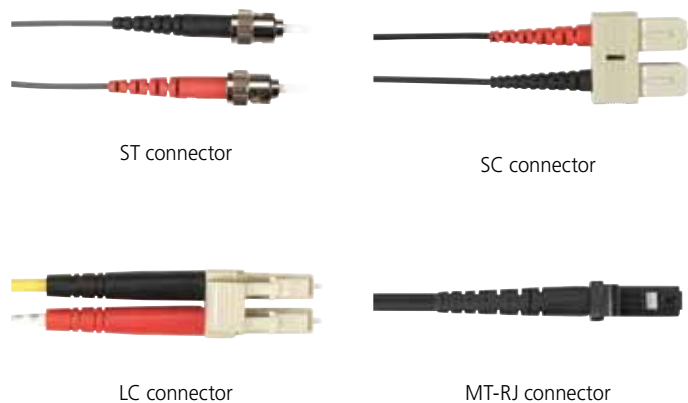
MTP connectors feature an intuitive push-pull latching sleeve mechanism with an audible click upon connection—they're as easy to use as MT-RJ connectors. And having a single connector makes it easier for you to pull high-fiber-count cables.



Multicolor Fiber Optic Patch Cables

Introducing fiber patch cable with custom options and the convenience of standard part numbers.

- Match Black Box fiber cable to your company, team, or school colors for that special networking application in the data center and the desktop.
- Ideal for color-coded applications.
- It's easy to build your own cable. Select from:
 - Core: 62.5-micron multimode
50-micron multimode
9-micron single-mode
 - Length: 13 lengths ranging from 1 to 30 meters
 - Connectors: Four connectors (ST, SC, LC, and MT-RJ) in 10 different combinations.
 - Colors: 12 colors
- Get high performance at data rates up to 1 Gbps at 850 nm.
- Higher data aggregation in the backbone, riser, and high-speed parallel interconnects (HSPLs).
- Full compatibility with a broad range of laser-based and legacy protocols and applications.
- Industry-leading CPC® coatings for superior microbend and environmental performance.



TECH SPECS

Bandwidth 62.5-µm: Intermediate performance EMB: 850 nm: 220 MHz/km; Legacy performance EMB: 850 nm: 200 MHz/km; 1300 nm: 500 MHz/km; 50-µm: Intermediate performance EMB: 850 nm: 510 MHz/km; Legacy performance EMB: 850 nm: 500 MHz/km; 1300 nm: 500 MHz/km
Optimized Data Rate 62.5-µm: 850 nm: 1 Gbps over 300 m; 1300 nm: 1 Gbps over 550 m; 50-µm: 1 Gbps over 600 m

Choose from as many as 12 colors!



For prices please call customer services at +32.2.725.85.50 or see our website www.blackbox.be.

Buyer's Guide | Multicolor Fiber Optic Patch Cables

1 (Constant)	2 Jacket	3 Core Size	4 Length	5 M- (Constant)	6 Connectors	Color
FO	CMR = PVC	62 = 62.5 Micron	001 = 1 Meter	M	STST = ST to ST	BL = Blue
	CMP = Plenum	50 = 50 Micron	002 = 2 Meters		SCSC = SC to SC	OR = Orange
		SM = Single-Mode	003 = 3 Meters		LCLC = LC to LC	GN = Green
			004 = 4 Meters		MTMT = MT-RJ to MT-RJ	BR = Brown
			005 = 5 Meters		STSC = ST to SC	GR = Gray
			006 = 6 Meters		STLC = ST to LC	WH = White
			007 = 7 Meters		STMT = ST to MT-RJ	RD = Red
			008 = 8 Meters		SCLC = SC to LC	BK = Black
			010 = 10 Meters		LCMT = LC to MT-RJ	YL = Yellow
			015 = 15 Meters		SCMT = SC to MT-RJ	VT = Violet
			020 = 20 Meters			PK = Pink
			025 = 25 Meters			AQ = Aqua
			030 = 30 Meters			

Examples of fiber optic cable codes.
FOCMR62-001M-STST-BL = Cable with a PVC jacket, 62.5-micron core, 1-meter length, ST-ST connectors in blue.
FOCMP50-008M-STLC-OR = Cable with a plenum jacket, 50-micron core, 8-meter length, ST-LC connectors in orange.
FOCMRSM-030M-SCLC-YL = Cable with a PVC jacket, 9-micron core, 30-meter length, SC-LC connectors in yellow.

Single-Mode, 9-Micron, Duplex Fiber Optic Cable

Transmit at higher rates than with multimode fiber and choose from five different connector types!

- Get long-distance transmission—50 times farther than multimode.
- Also available with a PVC jacket.

ST and SC Connectors

- Ideal for patching single-mode backbones to high-speed network devices, such as Gigabit Ethernet switches.

MT-RJ Connectors

- Small, snag-proof RJ-style connectors enable you to fit more terminations in a limited area than with SC connectors.

LC Connectors

- Almost half the size of standard ST and SC terminations.
- Ideal for high-density applications.

MU Connectors

- This small-form connector resembles the larger SC connector and also features a simple push-pull latching connection.
- Ideal for high-density applications, CATV, video, and more.

Single-Mode OS1, 9-Micron Fiber Optic Patch Cable, LSZH, Duplex



ST-ST

Item	Code	Price
1.0-m	EFE086-001M	€ 11,20
2.0-m	EFE086-002M	€ 11,90
3.0-m	EFE086-003M	€ 12,65
5.0-m	EFE086-005M	€ 14,10
10.0-m	EFE086-010M	€ 17,70

SC-SC

Item	Code	Price
1.0-m	EFE088-001M	€ 11,20
2.0-m	EFE088-002M	€ 11,90
3.0-m	EFE088-003M	€ 12,65
5.0-m	EFE088-005M	€ 14,10
10.0-m	EFE088-010M	€ 17,70

50 x 5m
€ 11,28

ST-SC

Item	Code	Price
1.0-m	EFE087-001M	€ 11,20
2.0-m	EFE087-002M	€ 11,90
3.0-m	EFE087-003M	€ 12,65
5.0-m	EFE087-005M	€ 14,10
10.0-m	EFE087-010M	€ 17,70

LC-LC

Item	Code	Price
1.0-m	EFE080-001M	€ 15,75
2.0-m	EFE080-002M	€ 16,50
3.0-m	EFE080-003M	€ 17,20
5.0-m	EFE080-005M	€ 18,65
10.0-m	EFE080-010M	€ 22,25

LC-ST

Item	Code	Price
1.0-m	EFE082-001M	€ 14,95
2.0-m	EFE082-002M	€ 15,70
3.0-m	EFE082-003M	€ 16,40
5.0-m	EFE082-005M	€ 17,85
10.0-m	EFE082-010M	€ 21,45

25 x 2m
€ 13,35

LC-SC

Item	Code	Price
1.0-m	EFE081-001M	€ 14,95
2.0-m	EFE081-002M	€ 15,70
3.0-m	EFE081-003M	€ 16,40
5.0-m	EFE081-005M	€ 17,85
10.0-m	EFE081-010M	€ 21,45

FC-FC

Item	Code	Price
1.0-m	EFE085-001M	€ 12,40
2.0-m	EFE085-002M	€ 13,10
3.0-m	EFE085-003M	€ 13,85
5.0-m	EFE085-005M	€ 15,30
10.0-m	EFE085-010M	€ 18,90

FC-ST

Item	Code	Price
1.0-m	EFE083-001M	€ 11,60
2.0-m	EFE083-002M	€ 12,30
3.0-m	EFE083-003M	€ 13,05
5.0-m	EFE083-005M	€ 14,50
10.0-m	EFE083-010M	€ 18,10

FC-SC

Item	Code	Price
1.0-m	EFE084-001M	€ 11,60
2.0-m	EFE084-002M	€ 12,30
3.0-m	EFE084-003M	€ 13,05
5.0-m	EFE084-005M	€ 14,50
10.0-m	EFE084-010M	€ 18,10

OS1 Fiber Optic



SC connector



MT-RJ connector



ST connector



LC connector



MU connector

TECH SPECS

Bend Radius Meets ANSI/TIA/EIA-568-B.3 standard

Cladding 125 µm

Core 9 µm

Crush Resistance 750 N/cm

Ferrule Ceramic

Housing Composite

Insertion Loss 0.2 dB typical

Operating Temperature -20 to +70° C

Return Loss ≥ 55 typical

Tensile Strength 240 N (54 lb./24.5 kg)

Wavelength 1310 nm, 1550 nm

OS1

E-2000-E-2000

Item	Code	Price
1.0-m	EFE093-001M	€ 50,55
2.0-m	EFE093-002M	€ 54,35
3.0-m	EFE093-003M	€ 54,80
5.0-m	EFE093-005M	€ 55,70
10.0-m	EFE093-010M	€ 58,00

25 x 2m
€ 46,20



MU-MU

Item	Code	Price
1.0-m	EFE095-001M	€ 6,95
2.0-m	EFE095-002M	€ 7,40
3.0-m	EFE095-003M	€ 7,85
5.0-m	EFE095-005M	€ 8,80
10.0-m	EFE095-010M	€ 11,05

MT-RJ-MT-RJ

Item	Code	Price
1.0-m	EFE5013-001M	€ 17,20
2.0-m	EFE5013-002M	€ 18,05
3.0-m	EFE5013-003M	€ 18,85
5.0-m	EFE5013-005M	€ 20,55
10.0-m	EFE5013-010M	€ 24,70

MT-RJ-ST

Item	Code	Price
1.0-m	EFE5014-001M	€ 14,45
2.0-m	EFE5014-002M	€ 15,30
3.0-m	EFE5014-003M	€ 16,15
5.0-m	EFE5014-005M	€ 17,80
10.0-m	EFE5014-010M	€ 21,95

50 x 3m
€ 12,82

E-2000-SC

Item	Code	Price
1.0-m	EFE091-001M	€ 47,20
2.0-m	EFE091-002M	€ 47,90
3.0-m	EFE091-003M	€ 48,65
5.0-m	EFE091-005M	€ 50,10
10.0-m	EFE091-010M	€ 53,70

E-2000-LC

Item	Code	Price
1.0-m	EFE092-001M	€ 59,35
2.0-m	EFE092-002M	€ 60,10
3.0-m	EFE092-003M	€ 60,85
5.0-m	EFE092-005M	€ 62,45
10.0-m	EFE092-010M	€ 66,35

APC, Single-Mode, 9-Micron OS1, Duplex Fiber Optic Cable ST(APC)-ST(APC)

Item	Code	Price
1.0-m	EFE089-001M	€ 17,05
2.0-m	EFE089-002M	€ 17,90
3.0-m	EFE089-003M	€ 18,75
5.0-m	EFE089-005M	€ 20,40
10.0-m	EFE089-010M	€ 24,55

SC(APC)-SC(APC)

Item	Code	Price
1.0-m	EFE090-001M	€ 17,40
2.0-m	EFE090-002M	€ 18,45
3.0-m	EFE090-003M	€ 19,50
5.0-m	EFE090-005M	€ 21,65
10.0-m	EFE090-010M	€ 26,95



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