



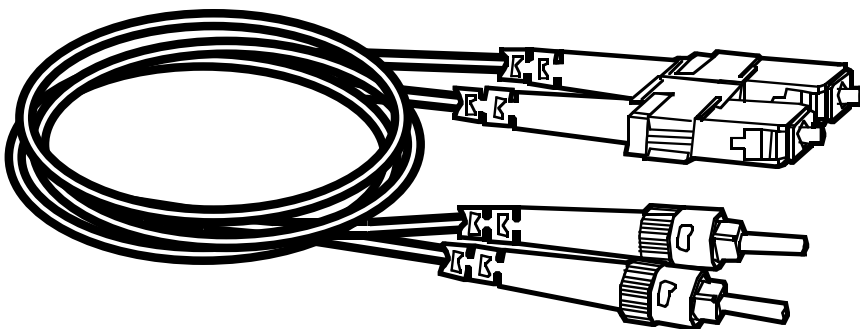
# BLACK BOX<sup>®</sup>

## NETWORK SERVICES

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## SINGLE-MODE DUPLEX FIBRE OPTIC CABLES AND MT-RJ SINGLE-MODE DUPLEX FIBRE OPTIC CABLES



*Increase distance and speed of data transmission  
without fear of interference.*

### Key Features

- ▶ **Easy to handle and use.**
- ▶ **9/125- $\mu$ m single-mode cable.**
- ▶ **Higher rate of data transmission than multimode fibre.**
- ▶ **One mode of propagation eliminates interference between wavelengths and reduces the need for repeaters.**
- ▶ **MT-RJ models offer duplex polarity.**

With Single-Mode Duplex Fibre Optic Cables or MT-RJ Single-Mode Duplex Fibre Optic Cables, you get up to 50 times more distance than multimode fibre. And you can increase your throughput, too!

These cables are lighter and more durable than copper—which translates into easier handling and less replacement for you. And security isn't an issue—these cables can't be tampered with or have data taps installed.

The cables transmit data faster and over greater distances than multimode fibres—increasing the distance between repeaters.

Single-Mode Duplex Fibre Optic Cables and MT-RJ Single-Mode Duplex Fibre Optic Cables are immune to electromagnetic interference. You can install these cables safely with other fibre and/or copper cables without worrying about crosstalk.

The MT-RJ models

incorporate small RJ-style connectors, which allow for more terminations in a limited area than SC. These connectors feature duplex polarity and are inherently snag-proof.

All these cables have OFNR NEC<sup>®</sup> rating and are 100% tested. We offer 1-m terminated lengths for the Single-Mode Cables, and 1-, 2-, 3-, 5-, and 10-m lengths for the MT-RJ models.

### Specifications

**Application** — For duplex single-mode riser applications

**Bend Radius** — Minimum 5 cm loaded, 3 cm unloaded, crush resistance 750 N/cm

**Conductors** — 2

**Conductor Material** — 9- $\mu$ m fibre core/125- $\mu$ m cladding graded index multimode optical fibre

**Jacket Material** — EFN 5009 through EFN5011: PVC type OFNR, -40 to 70°C storage temp; -20 to 70°C operating temp; EFN5013-15: PVC, -40 to +80°C

**Distance Supported** — Determined by equipment

**Tensile Strength** — 240 newtons or 24.5 kg

**Reflectance** — -35 dB min.

**Insertion Loss** — 0.3 dB typical, <0.75 dB max.

**Change for 500 Rematings** — <0.2 dB

## ▼ Ordering Information

| ITEM  | CODE         |
|---|--------------|
| Single-mode Fibre Optic Cables, Duplex, 9-µm/125-µm |              |
| ST®-ST PVC  |              |
| 1-m.....  | EFN5009-001M |
| 2-m.....  | EFN5009-002M |
| 3-m.....  | EFN5009-003M |
| 5-m.....  | EFN5009-005M |
| 10-m...   | EFN5009-010M |
| Custom Lengths                                      | EFN5009      |
| SC-SC PVC   |              |
| 1-m.....  | EFN5010-001M |
| 2-m.....  | EFN5010-002M |
| 3-m.....  | EFN5010-003M |
| 5-m.....  | EFN5010-005M |
| 10-m...   | EFN5010-010M |
| Custom Lengths                                      | EFN5010      |
| ST to SC  |              |
| 1-m.....  | EFN5011-001M |
| 2-m.....  | EFN5011-002M |
| 3-m.....  | EFN5011-003M |
| 5-m.....  | EFN5011-005M |
| 10-m...   | EFN5011-010M |
| Custom Lengths                                      | EFN5011      |

## Ordering Information

| ITEM               | CODE         |
|--------------------|--------------|
| MT-RJ - MT-RJ, PVC |              |
| 1-m.....           | EFN5013-001M |
| 2-m.....           | EFN5013-002M |
| 3-m.....           | EFN5013-003M |
| 5-m.....           | EFN5013-005M |
| 10-m...            | EFN5013-010M |
| MT-RJ - ST®, PVC   |              |
| 1-m.....           | EFN5014-001M |
| 2-m.....           | EFN5014-002M |
| 3-m.....           | EFN5014-003M |
| 5-m.....           | EFN5014-005M |
| 10-m...            | EFN5014-010M |
| MT-RJ - SC, PVC    |              |
| 1-m.....           | EFN5015-001M |
| 2-m.....           | EFN5015-002M |
| 3-m.....           | EFN5015-003M |
| 5-m.....           | EFN5015-005M |
| 10-m...            | EFN5015-010M |