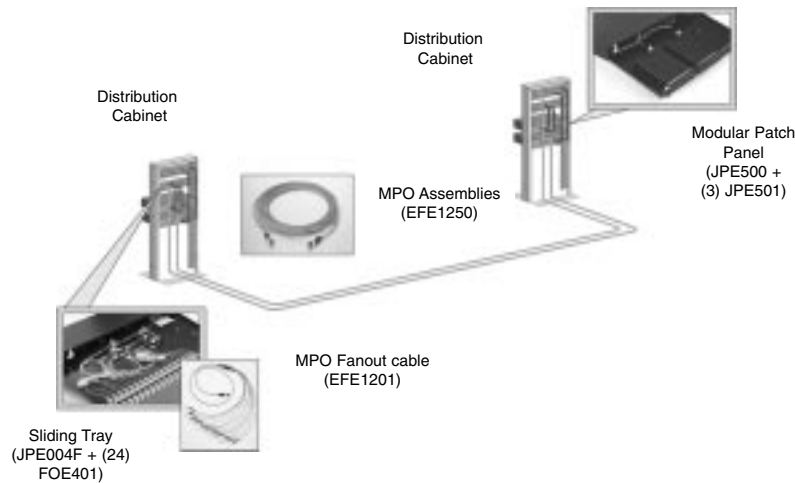




BLACK BOX[®]

NETWORK SERVICES

Fibre Optic MPO Terminated Backbone System



Key Features

- ▶ Plug & Play - Simple to order - no consumables needed.
- ▶ Factory Terminated system
- ▶ Installer-Friendly: Installed and tested 80% faster than traditional field terminated systems.
- ▶ Space saving design requires 70% less space than a traditional installation.
- ▶ Multi fibre connectors increase density.
- ▶ Rugged design; fully supports high-speed networking protocols.

The MPO Plug and Play system is the perfect solution for today's optical fibre installations, designed to enable a fibre network to be installed and commissioned in the shortest possible time. An MPO installation does not require specialist engineers or special tools as each component of the MPO system comes with a test certificate detailing each termination value. This enables the installer to be sure the system will function from the moment the final part of the system is connected.

The High density MPO connector allows simple plug and play termination of the fibre backbone. Connections to fan-out assemblies or pre-assembled pigtailed inside patch-panels will only take seconds.

Cassettes already loaded with 12SC, 24LC or 12MTRJ adapters are also available to be connected with the MPO backbone cables. MPO pre-termination saves time and reduces the possibility of damage to the fragile optical tails and reduces the risk of dirt ingress into Fibre couplers.

The MPO is the answer to tomorrow's costs and quality problems with pre-terminated fibre cable, but available from Blackbox today.

Specifications

MPO Backbone Cable

Cable Backbone Attenuation —
 5dB/Km @ 850nm – 4dB/Km @ 1300nm
 Bandwidth —
 500Mhz @ 850nm – 500Mhz @ 1300nm
 Bend Radius (Minimum) —
 5cms Loaded – 3cms Installed
 Cable Size —
 12-Way 4.6mm x 2.8mm
 Cable Type —
 Low Smoke Zero Halogen
 Fibre Cladding Diameter —
 125µm
 Core Diameter for fibres —
 50/125µm OM2
 (62.5/125µm OM1, 50/125µm OM3 and
 9/125µm OS1 available upon request)
 Tensile strength for backbone cable —
 200N
 Insertion Loss —
 ≤ 0.6 dB
 Reflectance —
 ≥ -50dB

MPO Fan-Out Cables

Cable Type —
 Low Smoke Zero Halogen
 Fibre Cladding Diameter —
 125µm
 Core Diameter for fibres —
 50/125µm OM2 (62.5/125µm OM1,
 50/125µm OM3 and 9/125µm OS1 avail-
 able upon request)
 MPO Male Connector —
 Insertion loss ≤ 0.6, dB return Loss ≥ -
 50dB
 Connectors SC, LC —
 Insertion Loss (IL) ≤ .3dB, Return Loss
 (RL) ≥ -50dB
 Connector MT-RJ —
 Insertion loss ≤ 0.6dB return loss
 ≥ 50 dB
MPO Cassettes
 MPO Male Connector —
 Insertion loss ≤ 0.6, dB return Loss
 ≥ -50dB
 Connectors SC, LC —
 Insertion Loss (IL) ≤ .3dB, Return Loss
 (RL) ≥ -50dB
 Connector MT-RJ —
 Insertion loss ≤ 0.6dB return loss
 ≥ 50 dB
 Dimensions —
 2.8H x 10.4W x 14.1D cm
 Weight —
 440 g.
 Will fit any LGX (*) cassettes slots

MPO Patch Panel

Metal —
 Passivated Mild steel
 Dimension —
 4.5H x 47.5W x 20D cm (Including
 mounting bracket)
 Weight —
 2.3 kg (Brackets included)
 LGX (*) compatible cassettes slots

(*) LGX stands for "Light Guide
 cross-connect" (An AT&T Reg. trade-
 mark).

Fibre Optic Patch Panels & Adapters Patch Panels Type A, B and C

Dimensions —
 4,5H x 47,5W x 20D cm (Width is inclu-
 ding mounting brackets.)
 Openings —
 Patch Panel Type A (24)
 Patch Panel Type B (24)
 Patch Panel Type C (12)

Adapters

Raw material —
 Adapters for ST and FC: body in metal;
 Adapters for SC, LC, MTRJ and Hybrid:
 in composite
 Operating Temperature —
 -40°C to + 75°C
 Sleeves — Multimode Adapters:
 Phosphor Bronze Sleeves; Single Mode
 and APC adapters: High Precision
 Ceramic Sleeves

Ordering information

ITEM

CODE

1. Backbone Cable

12-fibre, ULSZH, OM2 50/125µm (*) MPO-Female to MPO-Female

1-m	EFE1250-0001M
2-m	EFE1250-0002M
3-m	EFE1250-0003M
5-m	EFE1250-0005M
10-m	EFE1250-0010M
25-m	EFE1250-0025M
50-m	EFE1250-0050M
75-m	EFE1250-0075M
100-m	EFE1250-0100M
150-m	EFE1250-0150M
200-m	EFE1250-0200M

Ordering information

ITEM	CODE
2. Termination with Traditional Fibre Patch Panels & Fan-out Cables	
2.1 Traditional Fibre Patch panels + Adapters	
Fibre Optic Patch Panel Type A	JPE004F
Adapters for Patch Panel type A	
ST multimode	FOE401
ST single mode	FOE402
Fibre Optic Patch Panel Type B	JPE005F
Adapters for Patch Panel type B	
SC Simplex multimode (Beige)	FOE501
SC Simplex single mode (Blue)	FOE502
SC Simplex single mode APC (green)	FOE503
MTRJ multimode (beige)	FOE504
LC Duplex multimode (beige)	FOE505
LC Duplex single mode (blue)	FOE506
LC Duplex single mode APC (green)	FOE507
Fibre Optic Patch Panel Type C	JPE006F
Adapters for Patch Panel type C	
SC Duplex multimode (beige)	FOE601
SC Duplex single mode (blue)	FOE602
SC Duplex single mode APC (Green)	FOE603
LC Quad multimode (Beige)	FOE604
LC Quad single mode (blue)	FOE605
Hybrid Duplex ST-SC (multimode)	FOE610
2.2 Fan-out Cables	
12-fibre, ULSZH, OM2 50/125µm (*)	
MPO-Male to (6) ST Duplex	
1-m	EFE1201-01M
5-m	EFE1201-05M
MPO-Male to (6) SC Duplex	
1-m	EFE1202-01M
5-m	EFE1202-05M
MPO-Male to (6) LC Duplex	
1-m	EFE1203-01M
5-m	EFE1203-05M
MPO-Male to (6) MTRJ Duplex	
1-m	EFE1204-01M
5-m	EFE1204-05M
2.3 MPO adapter	FOE1200
2.4 Metal Bracket Holder for MPO adapters	
3-position	FOE1203
4-position	FOE1204

Ordering information

ITEM	CODE	
3. Termination using High-Density MPO Cassettes mounted in special designed MPO Patch Panel		
3.1 MPO Patch Panel (1U) will accept 3 MPO Cassettes	JPE500	
3.2 MPO Cassettes		
from: (front panel):	to: (rear panel)	
:	:	
(12) SC adapters	(1) MPO Male	JPE501
(24) LC adapters	(2) MPO Male	JPE503
(12) MTRJ adapters (for 24 fibres)	(2) MPO Male	JPE502
(*) NOTE: The MPO System is also available in 62.5/125µm OM1, 50/125µm OM3 and 9/125 OS1 fibre cable types; and in any connector or length configuration. Call Tech support for more details.		

Black Box Network Services - The world's largest network services company

We are, with 25 years of experience, the world leader in network infrastructure services.

On the Phone — no charge, answer calls in less than 20 seconds, find the right product with our technical experts.

On-site — superior design and engineering, Certified installations, end-to-end service.

On-line — receive technical knowledge on-line, including technology overviews, Black Box Explains and the Knowledge Box.

Most comprehensive TECHNICAL SUPPORT — our best Product! Free hotline TECH SUPPORT!

The world's best customer service — Custom design services and products, the best warranties, money-saving discount programs.

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