

# High Density 1RU 144F Fiber Enclosure >

**Molex High Density Fiber Enclosures are designed for high density applications such as Data Centers, SAN, medical healthcare, central offices or any other situation where high performing, high density and quick installation is required. The enclosure is available in 1RU 144 fiber capacity through LC connector and has various kinds of modules to support different types of applications.**

This innovative, robust, easy assemble and maintenance 1RU fiber enclosure has been designed for MTP, MPO and LC interfaces. This excellent space saving solution is ideal for network consolidation as its modular, scalable design provides flexibility for network partitioning and future growth. The rack mounted enclosure has been manufactured using durable powder/liquid coated steel construction ensuring years of reliable service.

The 19-inch chassis fits industry-standard EIA, ETSI and WECO rack mounts. The 1RU height conserves valuable rack space maximizing "real estate". Quick Release pins on the enclosure front allow easy access as well as patch cord protection. Molex recommends our bend insensitive Unitube/push pull patch cords for reduced bending loss, lower cable weight and better cable management.



HFR-10144 1RU Fiber Enclosure



HFR-14409 1X24 MTP-LC OS2 LL Cassette (Top cover removed)

## FEATURES AND ADVANTAGES

1RU rack mounted multi function fiber enclosure

Supports various kinds of modular cassettes

Each Enclosure accommodates 6 cassettes

Each MTP/MPO-LC preterminated cassette accommodates 24F fiber

MTP-24, MTP-12, MTP-8 various kinds of MTP-LC cassettes

OS2, OM3, OM4 & OM5 fiber optional for the MTP/MPO-LC modular cassettes

Splicing and preterm solution supported

Supports MTP/MPO and LC connector interface

Designed for 10G/40G/100G/200G/400G system migration

Built in front cable management tray on enclosure provides easy patch cord management capability

Cassette built in with front cable tray to separate the patch cord for each cassette

Spring cotter to achieve easy inserting and locking of the cassettes

Low loss version for all fiber assemblies

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## SPECIFICATIONS

### Mechanical

**IP Rating:** IP20

**Adapter Type:** LC/MPO/MPT

**LC Port Capacity:** 144 fibers

**Cassette Type:**

1 MTP-24 to 12 Duplex LC

2 MTP-12 to 12 Duplex LC

3 MTP-8 to 12 Duplex LC

2 MPO-12 to 12 Duplex LC

12 MTP Adapter Cassette

12 Duplex LC splicing cassette (pigtail included)

### Physical

**Fiber Enclosure**

**Body Material:**

**Cover&Base:** 1.8mm Aluminum with anodic oxidation in black

**Side/Vertical plate:** 6.0mm Aluminum with anodic oxidation in black

**Front door:** 2.0mm CRS black powder coating

**Operation Temperature:** -25 to + 70°C / -13 to +94 °F

**Dimension WxHxD:** 485x44x470mm

**Package Size:** 527x160x397mm

**Weight:** 2.5 kg / 5lb8oz

**Cassette:**

**Shell Material:** PC/ABS Alloy - Flame Retardant, UL94V-0, Halogen free

**Dimension WxHxD:** 196x12.5x295mm

**Weight:** 0.2 kg/7oz

**MTP/MPO Connector Type:** Male, Low loss

**MTP/MPO Adapter Type:** Key up to key down in black

**LC Connector Type:** Low loss

**LC Adapter Color:**

OM3: Aqua

OM4: Magenta

OM5: Beige

SM: Blue

### Optical Performance

**SM(1310nm&1550nm) Max IL:**

MTP IL≤0.35dB & LC IL≤0.15dB,

Cassette loss IL≤0.5dB

**MM(850nm&1300nm) Max IL:**

MTP IL≤0.35dB & LC IL≤0.15dB,

Cassette IL≤0.5dB

### Commercial Standards

100% geometry test(MTP refer to IEC61755-3-31 and LC refer to IEC61755-3-1/2)

LC:End face visual test according to IEC 61300-3-35 (Inspect at 400X magnification)

MT:End face visual test according to IEC 61300-3-35 (Inspect at 200X magnification)

RoHS compliant

REACH/SvHC compliant

TIA-568.3-D, ISO11801-1, TIA-492

## ORDERING INFORMATION

Order No.	SAP No.	Description
HFR-10144	0180660136	HD Fiber Enclosure 1U 144F, Black
HFR-14401	0181810303	HD Cassette OS2 24F 2XMTP(M)-LCD LL, Black
HFR-14402	0181810304	HD Cassette OM3 24F 2XMTP(M)-LCD LL, Black
HFR-14403	0181810305	HD Cassette OM4 24F 2XMTP(M)-LCD LL, Black
HFR-14404	0181810306	HD Cassette OM5 24F 2XMTP(M)-LCD LL, Black
HFR-14405	0181810307	HD Cassette 24F 3XMTP(M)-LCD LL OS2, Black
HFR-14406	0181810308	HD Cassette 24F 3XMTP(M)-LCD LL OM3, Black
HFR-14407	0181810309	HD Cassette 24F 3XMTP(M)-LCD LL OM4, Black
HFR-14408	0181810310	HD Cassette 24F 3XMTP(M)-LCD LL OM5, Black
HFR-14409	0181810311	HD Cassette 24F 1XMTP(M)-LCD LL OS2, Black
HFR-14410	0181810312	HD Cassette 24F 1XMTP(M)-LCD LL OM3, Black
HFR-14411	0181810313	HD Cassette 24F 1XMTP(M)-LCD LL OM4, Black
HFR-14412	0181810314	HD Cassette 24F 1XMTP(M)-LCD LL OM5, Black
HFR-14413	0181810315	HD Cassette 24F LCD Pigtail LL OS2, Black

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Order No.	SAP No.	Description
HFR-14414	0181810316	HD Cassette 24F LCD Pigtail LL OM3, Black
HFR-14415	0181810317	HD Cassette 24F LCD Pigtail LL OM4, Black
HFR-14416	0181810318	HD Cassette 24F LCD Pigtail LL OM5, Black
HFR-14417	0181810319	HD Cassette SM 12XMTP Adapter, Black
HFR-14418	0181810320	HD Cassette MM 12XMTP Adapter, Black
HFR-14419	0181810325	HD Cassette OS2 24F 2XMPO(M)-LCD LL, Black
HFR-14420	0181810326	HD Cassette OM3 24F 2XMPO(M)-LCD LL, Black
HFR-14421	0181810327	HD Cassette OM4 24F 2XMPO(M)-LCD LL, Black
HFR-14422	0181810328	HD Cassette OM5 24F 2XMPO(M)-LCD LL, Black

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Order No. HFR-10144

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