Optical Industrial Assemblies and Adapters

Ideal for harsh outdoor applications, Optical Industrial Assemblies ensure compatibility with other compliant connector systems and deliver easy mating with virtually any active device

Features and Benefits

Housing is NEMA 6P and IP67 rated	Provides dust and moisture protection. Can be used in many harsh environments
Plastic and metal housing options for LC plug connectors and panel-mount adapters. Metal body LC connectors have been tested to GR-486: salt and fog exposure for extreme elements	Provides design flexibility to meet a variety of harsh environment demands
Utilizes an industry-standard (ODVA compliant) connector and adapter	Ensures performance and compatibility with other compliant connector systems
Three-axis (x, y and z) internal float incorporated in the LC duplex version	Allows end users to connect virtually any SFP active device
Sealed panel feed-through design versions (ODVA-compliant options available) with panel nut located inside the enclosure	Offers simple installation. Internal panel-nut location provides tamper-proof and environmental protection (Competition's panel nut is outside enclosure, risking seal to be broken via tampering)
Panel-mount adapter option for plug connector to mate directly to a transceiver	Reduces cabling in box. Minimizes link loss
Available for use with singlemode and multimode fiber	Works with most common fiber types
Bayonet-style positive mechanical latch	Enables easy installation and removal in tight quarters
Broad temperature range (-40 to +85°C)	Ideal for outdoor (and indoor) applications
Cable assemblies are 100% optically tested before shipment	Ensures high-performance assemblies out of the bag

molex





Plastic and Metal Housings LC Duplex and MPO Connectors, Adapters and Cable Assemblies

Applications

Telecommunications

Remote Radio Head (RRH) - LTE

Applications

FTTX

Outdoor System Connections

CATV

Industrial Automation

System Controls

Monitoring

High Electromagnetic Interference

(EMI) and Radio Frequency

Interference (RFO) Areas

Military Medical

Other Markets

Rugged Test Equipment

Mobile Broadcasting or Audio-Visual

Equipment

Food Processing Plants

Security / Disaster Response

Low Spark or No Spark Zones

(Oil and Gas Mining)



Remote Radio Head



Outdoor Industrial Automation: Mining / Quarry

Optical Industrial Assemblies and Adapters



Specifications

REFERENCE INFORMATION

Packaging: Cable Assemblies: Individual Bag or Spool Adapters: Individual Bag

Mates With: Standard LC, SC or MPO Assemblies (respectively)

Designed In: Inches

OPTICAL

Insertion Loss:

SingleMode <0.35dB max. (0.13dB typical)

Multimode <0.50dB max. (0.10dB typical)

Return Loss

Singlemode 45 to 55dB

Wavelength:

Singlemode 1310 or 1550nm Multimode 850 or 1300nm

PHYSICAL

Housing: Polymer or Metal Ferrule: Zirconia Ceramic

Cable Type: Duplex or Simplex; Indoor or Outdoor

Mode: Singlemode or Multimode

Ordering Information

Series No.	Connector Type	Connector System Component	Material	Cable Type	Dust Cap	Mounting Style	Fiber Count	Fiber Type
106059	Industrial LC MPO (MTP*)	Connector	Metal or Plastic	Indoor/Outdoor	Black	Bayonet	2	Multimode or Singlemode
100050	Industrial LC	Adoptor	Matal	Indoor/Outdoor	White or Block	Jam Nut Mount Flange Mount	2	Multimode or
<u>106059</u>	Industrial MPO (MTP*) Adapter	Metal	Indoor/Outdoor	White or Black	Jam Nut Mount	12	Singlemode	
106501	Industrial LC	Adapter	Metal	N/A	White or Black	Direct mate to active device	2	Multimode or Singlemode

CABLE ASSEMBLIES

Custom	Industrial Connector Housing Type	Distal end connector	Fiber Type	Length (m)	
Contact Molex	LC - Metal	Standard LC Duplex	2f - 50/125um 2f - 9/125um	1.0, 3.0, 5.0, 10.0, 15.0, 25.0, 50.0, 100.0, 300.0, 500.0	
Contact Molex	MPO (MTP*) Male – Plastic Industrial MPO (MTP*)	MPO (MTP*) Female - Plastic MPO (MTP*) Male - Plastic	12f - 50/125um 12f - 9/125um	1.00 to 500.0	

NOTE: Additional fiber types, Lengths and Configurations Available *MTP is a registered trademark of US Conec

www.molex.com/link/opticalindustrial.html