

INDUSTRIAL CABLE ASSEMBLIES



Fiber connectivity for any harsh environment!

Industrial MPO and LC (ODVA) cable assemblies can be made to order with a wide variety of rugged cable options. These assemblies provide excellent protection in the harshest environments. The connectors use the familiar LC or MPO connector in a robust industrial housing which provides secure IP67 rated connections. Unlike many industrial cable assembly solutions on the market today, the ODVA LC connector footprint is open sourced which allows customers the flexibility of not being locked into one particular manufacturer. These assemblies are fully compatible without the Industrial Gator Patch product line and can also be customized to suit your application. Contact customer service today to learn more.

KEY FEATURES

- IP67 rated protects against dust/water
- Secure fiber connections
- Available in any standard fiber type
- Up to 24 fibers in a single connector
- UV resistant materials
- 100% testing in our North American facility

TYPICAL APPLICATIONS

- Fiber to the tower— Radio distribution
- Mobile broadcasting or security
- Wind/solar power communication link
- Factory/industrial applications
- Mining applications
- Intelligent transportation systems

Compatible with the Industrial Gator Patch

ORDERING INFORMATION

Industrial MPO

| | | | | | | | | | | | |
|---|----------------------|-----------------------|-------|------------------------|------------------------------|------------|--------------------------------|-------------|----|--------------------|-----------|
| 1 | Assembly Type | | 6, 10 | Connector Types | | 7, 11 | Fanout Type | | 14 | Performance | |
| | D | D-Series | | FJ | MPO(F) 24F IND | | 2 | 2mm | | E | EFG Grade |
| 2 | Fiber Type | | FN | MPO(F) 12F IND | 3 | 3mm | L | Low Loss | | | |
| | 1 | 62.5/125 (OM1) | MJ | MPO(M) 24F IND | 9 | 900um | S | Standard | | | |
| | 2 | SM (OS2) | MN | MPO(M) 12F IND | B | 3.8mm | 15 Polarity | | | | |
| | 3 | 50/125 (OM2) | 00 | PIGTAIL | N | NA | A | Type A | | | |
| | 9 | 50/125 (OM3) | FB | MPO(F) 24F | 8, 12 Fanout Length | | B | Type B | | | |
| | A | 50/125 (OM4) | FM | MPO(F) 12F | A | 25cm | C | Type C | | | |
| 3 | Fiber Count | | MB | MPO(M) 24F | B | 50cm | D | 40G | | | |
| | 6 | 6F | MM | MPO(M) 12F | C | 100cm | 16 Pull-kits | | | | |
| | 8 | 8F | FA | FC/APC | D | 150cm | 0 | None | | | |
| | A | 12F | FC | FC | E | 200cm | 1 | 1 End B | | | |
| | D | 24F | LA | LC/APC SX | F | 300cm | 2 | 2 Both Ends | | | |
| 4 | Cable Rating | | LC | LC SX | N | NA | 17 Length in meters xxx | | | | |
| | A | Riser (In/Out) | LD | LC DX | 9, 13 Fanout Geometry | | | | | | |
| | B | Plenum (In/Out) | LM | LC-MINI DX | 0 | No Stagger | | | | | |
| | C | LSZH (In/Out) | LU | LC UNIBOOT | 1 | Stagger 1 | | | | | |
| | H | Riser Arm'd (In/Out) | LZ | LC/APC DX | 2 | Stagger 2 | | | | | |
| | J | LSZH Arm'd (In/Out) | RJ | MTRJ(F) | 3 | Stagger 3 | | | | | |
| | K | NOT RATED (OSP) Arm'd | RM | MTRJ(M) | 4 | Stagger 4 | | | | | |
| | N | NOT RATED (OSP) | SA | SC/APC SX | N | NA | | | | | |
| | S | Plenum Arm'd (In/Out) | SC | SC SX | | | | | | | |
| W | Loose-tube | SD | SC DX | | | | | | | | |
| 5 | Cable Type | | ST | ST | | | | | | | |
| | | | SZ | SC/APC DX | | | | | | | |

Contact customer service for help determining your specific cable requirements

Industrial MPO Connector

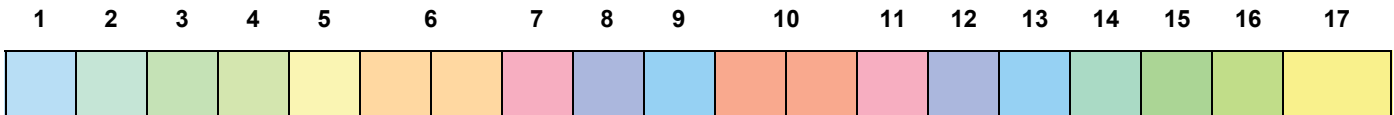
ORDERING INFORMATION

Industrial LC

| | |
|----------|-----------------------|
| 1 | Assembly Type |
| D | D-Series |
| 2 | Fiber Type |
| 1 | 62.5/125 (OM1) |
| 2 | SM (OS2) |
| 3 | 50/125 (OM2) |
| 9 | 50/125 (OM3) |
| A | 50/125 (OM4) |
| 3 | Fiber Count |
| 2 | 2F |
| 4 | Cable Rating |
| A | Riser (In/Out) |
| B | Plenum (In/Out) |
| C | LSZH (In/Out) |
| H | Riser Arm'd (In/Out) |
| J | LSZH Arm'd (In/Out) |
| K | NOT RATED (OSP) Arm'd |
| N | NOT RATED (OSP) |
| S | Plenum Arm'd (In/Out) |
| 5 | Cable Type |
| K | Tight Buffer Dist |
| L | Breakout (2mm subs) |
| M | Breakout (2.5mm subs) |
| R | Tactical |
| W | Loose-tube |

| | |
|--------------|------------------------|
| 6,10 | Connector Types |
| LN | LC ODVA |
| 00 | PIGTAIL |
| FA | FC/APC |
| FC | FC |
| LA | LC/APC SX |
| LC | LC SX |
| LD | LC DX |
| LM | LC-MINI DX |
| LU | LC UNIBOOT |
| LZ | LC/APC DX |
| SA | SC/APC SX |
| SC | SC SX |
| SD | SC DX |
| ST | ST |
| SZ | SC/APC DX |
| 7, 11 | Fanout Type |
| 2 | 2mm |
| 9 | 900um |
| A | 2.5mm |
| N | NA |

| | |
|--------------|-----------------------------|
| 8, 12 | Fanout Length |
| A | 25cm |
| B | 50cm |
| C | 100cm |
| D | 150cm |
| E | 200cm |
| F | 300cm |
| N | NA |
| 9, 13 | Fanout Geometry |
| 0 | No Stagger |
| N | NA |
| 14 | Performance |
| E | EFG Grade |
| L | Low Loss |
| S | Standard |
| 15 | Polarity |
| F | Standard |
| G | Reversed |
| 16 | Pull-kits |
| 0 | None |
| 1 | 1 End B |
| 2 | 2 Both Ends |
| 17 | Length in meters xxx |
| | |



Contact customer service for help determining your specific cable requirements

ODVA LC Connector



TECHNICAL SPECIFICATIONS

Fiber Transmission Performance

| | Multimode | | | | Single-Mode |
|---|----------------------------|--------------------------|-------------------------|--------------------------|-----------------------------------|
| Fiber Type | 6.25/125µm (850/1300nm) | 50/125µm (850/1300nm) | 50/125µm 850/1300nm) | 50/125µm (850/1300nm) | Single-Mode (1310/1383/1550nm) |
| ISO/IEC Name | OM1 | OM2 | OM3 | OM4 | OS2 |
| Maximum Attenuation (dB/km) | 3.4/1.0 | 3.0/1.0 | 3.0/1.0 | 3.0/1.0 | 0.4/0.4/0.3* |
| Maximum Attenuation (dB/km) | 3.4/1.0 | 3.0/1.0 | 3.0/1.0 | 3.0/1.0 | 0.65/0.65/0.5** |
| Minimum Over Filled Launch (OFL) Bandwidth (MHx•km) | 200/500 | 700/500 | 1500/500 | 1500/500 | -/-/- |
| Minimum Effective Modal Bandwidth (MHx•km) | 220/- | 950/- | 2000/- | 5350/- | -/-/- |
| Serial 1 Gigabit Ethernet Distance (m) | 300/550 | 750/600 | 1000/600 | 1000/600 | 5000/-/- |
| Serial 10 Gigabit Ethernet Distance (m) | 33/- | 150/- | 300/- | 600/- | 10000/-/40000 |
| * Including ALTOS®, SST-Drop™, SOLO®, SST-Ribbon™, Industrial LSZH™, Mining and Petrochemical, FREEDM® LST™ Loose Tube, FREEDM® Ribbon, MIC® 250, Ribbon, LSZH™ Ribbon (Registered trademarks of Corning Cable Systems LLC) | | | | | |
| ** Including Tactical, FREEDM® Fan-Out, FREEDM® ONE, MIC® various Fan-Out, Single-Fiber, Zipcord 2-Fiber, Ribbon Interconnect | | | | | |
| Other cable types and manufacturers also available. | | | | | |
| Please contact customer service for additional information. | | | | | |

Connector Performance

| Connector Performance | Multimode | Single mode |
|-------------------------------|-----------------------------|-----------------------------|
| Test Wavelength | 850nm | 1550nm |
| Industrial MPO Insertion Loss | Typical 0.5db / Max 0.75db | Typical 0.4db / Max 0.75db |
| ODVA LC Insertion Loss | Typical 0.4db / Max 0.5db | Typical 0.3db / Max 0.5db |
| Reflectance | ≤ -20db | ≤ -55db |
| Durability | 500 matings, < 0.2db change | 500 matings, < 0.2db change |
| Operating Temperature | -40 to +70C | -40 to +70C |
| Storage Temperature | -40 to +85C | -40 to +85C |
| Water/Dust Ingress | IP67 (IEC 60529) | IP67 (IEC 60529) |

Please contact customer service for additional information.

Custom configurations available upon request.

All specifications are subject to change