

» Connecting the Automated Industrial Environment

Industrial Automation applications differ from typical deployments seen in enterprises as they tend to incorporate the use of structured point-to-point cabling in harsh environments such as the factory floor. Choosing a PanGen® Industrial Automation system provides a robust solution for environments outside the enterprise or data center, resulting in maximum process uptime. These standards-based solutions comply with various industry standards, such as TIA/EIA-604 FOCIS-10 and TIA/EIA -568-B.3 , resulting in measurable high performance and data transfer.

Additional benefits of PanGen® Industrial Automation Solutions include:

- LC connectors for PCF interconnect or breakout fiber contain a unique push-pull mechanism which is attached to the strain relief boot. Connectors are engaged or disengaged from an INF-8074i (LC) compliant SFP transceiver by pushing or pulling on the connector strain relief boot
- IndustrialNet™ Patch Cords provide IP67 seal when mated to IP67 bulkhead adapters and are ideal for daisy-chaining hardened industrial switches between IP66 rated enclosures
- Alignment to Cisco/Rockwell Converged Plant-Wide Infrastructure Conforms best practices put forward from leading network infrastructure and control equipment vendors

Part Number	Description
IndustrialNet™ LC Fiber Optic Bulkhead Adapter	
IAEF7JMA*	Industrial LC fiber bulkhead adapter.
IndustrialNet™ LC Fiber Optic Patch Cord and Pigtail	
IAEF617P-7PM*	Industrial duplex multimode 62.5/125um LC to LC patch cord in 1, 2, 3, 10, 20 and 30 meter jacketed fiber cable lengths (*equals length).
IAEF617P-NM1*	Industrial duplex multimode 62.5/125um LC to pigtail in 1, 2, 3, 10, 20 and 30 meter jacketed fiber cable lengths (*equals length).
Fiber Connectivity	
Fiber Optic Connectors	
FLCDMCXAQY	OM3/OM4 LC multimode duplex fiber optic connector for 900um tight-buffered fiber installation.
FLCSHMIG	LC simplex crimp and cleave fiber optic connector for use with PCF interconnect and breakout cable. LC connectors contain a unique push-pull mechanism which is attached to the strain relief boot and makes fiber connections easier inside of a control panel.
FLCDHMIG	LC duplex crimp and cleave fiber optic connector for use with PCF interconnect and breakout cable. LC connectors contain a unique push-pull mechanism which is attached to the strain relief boot and makes fiber connections easier inside of a control panel.
FLCDMC5BLY	OM2 LC multimode duplex connector for 900µm tight-buffered fiber installation.
FLCDMC6EIJ	OM1 LC multimode duplex connector for 900µm tight-buffered fiber installation.
FLCDSCBUY	OS2 LC singlemode duplex fiber optic connector for 900µm tight-buffered fiber installation.
Fiber Optic Adapters	
CMDSAQLCBL	Module supplied with one LC Sr./Sr. OM3/OM4 SFF duplex multimode fiber optic adapter (AQ) with phosphor bronze split sleeves.
CMDSLCLBL	Module supplied with one LC Sr./Sr. SFF duplex multimode fiber optic adapter (EI) with phosphor bronze split sleeves.
CMDSLCLZBL	Module supplied with one LC Sr./Sr. SFF duplex singlemode fiber optic adapter (BU) with zirconia ceramic split sleeves.
Fiber Accessories	
Surface Mount Box	
CBXF ^A BL-AY	Surface mount box accepts up to six Mini-Com® Modules. Includes built-in fiber spool that stores up to 24 meters of buffered fiber optic. Icon slots available for optional icons. Dimensions: 0.98" H x 4.70" W x 6.66" L (25.0mm x 119.4mm x 169.2mm).

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The deployment of fiber cabling in harsh environments places additional demands on the cabling that can be most satisfactorily addressed by deployment of high performance of Dielectric Conduited Fiber (DCF) and Polymer Coated Fiber (PCF) fiber optic cabling. DCF cable has a crush resistance six times (6x) greater than that of an unarmored cable and it removes the grounding and bonding requirements that pertain to the standard armored type cable. PCF installs high speed fiber optic permanent links in harsh, industrial environments and is recommended for indoor use only in an enclosed protection path. Panduit understands the harsh and often unpredictable environments into which the fiber cabling infrastructure is installed, and demonstrates how performance, quality and reliability will be met.

Part Number	Description
Fiber Patch Cords	
FX2ERLNLNSNM***	2-fiber OM3 10 GbE LC duplex to LC duplex patch cord, 1.6mm jacketed cable, Std. IL. in 1 - 50 meter lengths. (***)equals length).
LC Connector Lock-in Clip	
FLCCLIW-X	Allows connectors to be locked into or released from adapters in modules, FAPs, cassettes, or patch panels for security.
Fiber Optic Enclosures	
FDME8RG	8-port DIN Rail Fiber Optic Enclosure provides enclosed fiber protection for terminated distribution style cabling and includes a PG21 or 3/4 NPT cable cord grip to secure fiber cables(s) exiting the enclosure.
FWME*	Wall Mount Fiber Enclosure With Openings for 2, 4, or 8 Opticom Fiber Adapter Panels (* = 2, 4, 8).
FMT1	Rack Mount Fiber Tray 1 RU; to be used with CFAPPBL1.
Fiber Termination Tools	
FCAMKIT	Termination Kit (Pre-Polished Cam Fiber Optic Connectors).
PCF-LCFTK	LC Connector Installation Tool Kit for use with PCF fiber cable.
Fiber Optic Cable	
Dielectric Conduited Fiber (DCF) Cable	
FSPD512	12-fiber OM2 Dielectric Conduited Fiber, Multimode LSZH-Riser, Indoor Distribution Cable (available in 2,4,8, & 12 fiber counts).
FSPD612	12-fiber OM1 dielectric conduited multimode lszh-riser indoor distribution cable (available in 2,4,8, & 12 fiber counts).
FSPD912	12-fiber OS2 singlemode lszh-riser dielectric conduited indoor distribution cable (available in 2,4,8, & 12 fiber counts).
Polymer Coated Fiber (PCF) Cable (Breakout)	
FI2D102	2-fiber OM1 62.5/200/230µm Polymer Coated Fiber multimode lszh-riser indoor breakout cable.
FI2D104	4-fiber OM1 62.5/200/230µm Polymer Coated Fiber multimode lszh-riser indoor breakout cable.
FI2D202	2-fiber OM2 50/200/230µm Polymer Coated Fiber multimode lszh-riser indoor breakout cable
FI2D204	4-fiber OM2 50/200/230µm Polymer Coated Fiber multimode lszh-riser indoor breakout cable.
Polymer Coated Fiber (PCF) Cable (Interconnect)	
FIID102	2-fiber OM1 62.5/200/230µm Polymer Coated Fiber multimode lszh-riser duplex interconnect cable.
FIID202	2-fiber OM2 50/200/230µm Polymer Coated Fiber multimode lszh-riser duplex interconnect cable.

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