

HITRONIC Fibre Optic - Distribution

LOOSE-TUBE, GEL FILLED SINGLE & MULTIMODE FIBRE



Application
Generally used for long transmission runs. Typically installed in conduit ducts or cable trays.

Special Features

- Suitable for direct burial
- Suitable for direct installation outdoors

Notes
More versions available on request

Construction
UV resistant (outdoor suitable). Special water blocking tape for water protection. Tough PE outer sheath.

Part No.	Fibre Size	Cores	Core Jacket	Cable OD
MULTI MODE (OM3)				
LAPP-27600304	50/125	4	250 micron	7.3 mm
LAPP-27600308	50/125	8	250 micron	7.3 mm
LAPP-27600312	50/125	12	250 micron	7.3 mm
LAPP-27600324	50/125	24	250 micron	8.3 mm
SINGLE MODE (OS2)				
LAPP-27600908	9/125	8	250 micron	7.3 mm
LAPP-27600912	9/125	12	250 micron	7.3 mm
LAPP-27600924	9/125	24	250 micron	8.3 mm

HITRONIC Terminations

CONNECTORS, BREAKOUT BOXES AND OTHER ACCESSORIES



Application
Each end of the fibre distribution cable should be terminated into a breakout box. A short fibre patch cable is then run to the end device.

Special Request
Cables can be pre-terminated and supplied on drums ready for site installation. This is available on request. Free training and a getting started guide for the No-Polish system are available on request.

Features
"No Polish" connectors can take as little as 2 minutes per connection. The fibre requires no polishing.



Part No.	Description
TERMINATION KIT	
ECS-FO-KIT	No Polish Connector Termination Kit with cleaver
CONNECTORS	
ECS-FO-SC-50	No Polish SC Connector MM 50µm
ECS-FO-SC-62,5	No Polish SC Connector MM 62,5µm
ECS-FO-SC-9	No Polish SC Connector SM 9µm

ECS-FO-SC-50

HITRONIC Fibre Patch Cables

FIBRE PATCH LEADS

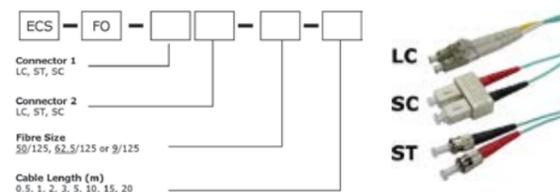


Application
Generally used for short flexible installations between breakout boxes and the end devices.

Fibre options

- ST, SC & LC connections
- A range of lengths available

Connector 1	Connector 2	Fibre Size	Cable Length (m)
LC, ST, SC			
LC, ST, SC	LC, ST, SC	50/125, 62.5/125 or 9/125	0.5, 1, 2, 3, 5, 10, 15, 20
LC, ST, SC	LC, ST, SC	50/125, 62.5/125 or 9/125	0.5, 1, 2, 3, 5, 10, 15, 20
LC, ST, SC	LC, ST, SC	50/125, 62.5/125 or 9/125	0.5, 1, 2, 3, 5, 10, 15, 20
LC, ST, SC	LC, ST, SC	50/125, 62.5/125 or 9/125	0.5, 1, 2, 3, 5, 10, 15, 20



HITRONIC 19" Fibre Racks

FIBRE DISTRIBUTION IN SERVER / CONTROL ROOMS



Application
Fibre terminations tray for installation in 19" server racks.

Details

- Distribution for up to 24 single fibres
- Slide out tray
- Holds up to 4 splicing cartridges
- Unpopulated (couplers supplied separately)
- Material: Steel



Part No.	Number of Connection Points	Suitable Couple Style	Dimensions (WxHxD)	Size
1 RU				
CE9139	24 Simplex holes for ST couplers	Circular	483 x 44.5 x 244mm	1 RU
CE9135	12 Duplex holes for SC/LC/ST couplers	Rectangle	483 x 44.5 x 170mm	1 RU

HITRONIC Splice Box Compact Fibre Distribution Box

FIBRE DISTRIBUTION AROUND THE FACTORY



Details

- Lockable (2 keys supplied with box)
- Includes distribution plates for both 4 x SC Duplex and 8 x ST Simplex

Part No.	Description	Material	Dimensions
SPLICE BOX COMPACT			
CE9147	Splice Box Compact - Fibre Distribution Box	Steel	(WxHxD): 265 x 150 x 55mm



HITRONIC Mini Wall Mounted Rack Fibre Distribution Box

FIBRE DISTRIBUTION AROUND THE FACTORY



Details

- Lockable (2 keys supplied with box)
- Distribution plate not included with box
- Holds up to 4 splicing cartridges

Part No.	Description	Material	Dimensions
MINI WALL MOUNTED RACK			
CE9150	Mini Wall Mounted Rack - Fibre Distribution Box	Steel	(WxHxD): 320 x 280 x 54mm
CE9153	Distribution Plate for 12 x SC duplex connectors	Steel	



HITRONIC Plastic Fibre Distribution Box

FIBRE DISTRIBUTION AROUND THE FACTORY



Details

- Distribution for up to 8 single fibres
- Includes distribution plates for both 4 x SC Duplex
- Splicing cartridge included

Part No.	Description	Material	Dimensions
PLASTIC			
ECS-FO-Plastic-01	Plastic - Fibre Distribution Box	Plastic	(WxHxD): 183 x 129 x 39mm



HITRONIC Fibre Accessories

ACCESSORIES FOR DISTRIBUTION UNITS



Part No.	Description
SPLICE CARTRIDGES	
CE9914	Fibre cable holder. For spooling tails.
CE9914D	Cover for fibre cable holder.
CE9916	Splice Holder (up to 2 per cartridge)

Part No.	Description
FIBRE COUPLERS	
FO-SCSC-Joiner	Duplex SC Coupler for 50/125 and 62,5/125
FO-SCSC-Joiner-9	Duplex SC Coupler for 9/125
FO-STST-Joiner	Duplex ST Coupler for 50/125 and 62,5/125
FO-STST-Joiner-9	Duplex ST Coupler for 9/125
FO-LCLC-Joiner	Quad LC Coupler for 50/125 and 62,5/125
FO-LCLC-Joiner-9	Quad LC Coupler for 9/125

MOXA Industrial Ethernet Switches

SWITCHES FOR FACTORY AUTOMATION (UNMANAGED)



Notes

- m = multimode
- mm = multimode x 2
- s = singlemode
- ss = singlemode x 2

Part No.	Notes	Housing	Copper Ports	Fibre Ports	Fibre Types	Fibre connectors
EDS-2XX SERIES (ENTRY-LEVEL ETHERNET SWITCH)						
EDS-205A		Metal	5			
EDS-208A		Metal	8			
EDS-208A-xx-x		Metal	6	2 x Fibre	m, mm, s, ss	SC or ST
EDS-208A-xx-x		Metal	6	2 x Fibre	m, mm, s, ss	SC or ST
EDS-3XX SERIES (MEDIUM-LEVEL ETHERNET SWITCH)						
EDS-305		Metal	5			
EDS-308		Metal	8			
EDS-316		Metal	16			
EDS-305-xx-x		Metal	4	1 x Fibre	m, mm, s, ss	SC or ST
EDS-308-xx-x		Metal	6	2 x Fibre	m, mm, s, ss	SC or ST
EDS-G2XX SERIES (FULL GIGABIT)						
EDS-G205	5 Gigabit Ports	Metal	5			

MOXA Managed Ethernet Switches

SWITCHES FOR CRITICAL FACTORY NETWORKING



Features

- IGMP Snooping (Filters Allen Bradley broadcasts)
- VLAN'S (Security feature for local area networks)
- Turbo Ring (Ring option for redundant paths)
- Port Trunking (Use multiple ports for more bandwidth)
- Web Interface for setup



Part No.	Notes	Housing	Copper Ports	Fibre Ports	Fibre Types	Fibre connectors
EDS-5XX SERIES (MANAGED ETHERNET SWITCHES)						
EDS-508A		Metal	8			
EDS-516A		Metal	16			
EDS-518A		Metal	18			
EDS-508A-xx-x		Metal	6	2 x Fibre	mm, ss	SC or ST
EDS-516A-xx-x		Metal	14	2 x Fibre	mm, ss	SC or ST
EDS-510 SERIES (GIGABIT SWITCHES)						
EDS-510A-3GT	3 Gigabit Ports	Metal	10			
EDS-510A-3SFP	5 Gigabit Ports	Metal	7	3 x Fibre	Requires SFP	LC

MOXA Fibre to Copper Converters

MEDIA CONVERTERS FOR FIBRE OPTICS



Entry Level Converters



Medium-level Converters

Part No.	Notes	Housing	Copper Ports	Fibre Ports	Fibre Types	Fibre connectors
ENTRY LEVEL CONVERTERS						
MOXA-IMC-21-x-x		Plastic	1		s or m	
MEDIUM-LEVEL CONVERTERS						
MOXA-IMC-101-x-x		Metal	1	1 x Fibre	s or m	
GIGABIT CONVERTERS						
MOXA-IMC-101G-x-x	Gigabit of both ports	Metal	1	2 x Fibre	Requires SFP	LC

MOXA Industrial Serial Converters

INTEGRATE SERIAL DEVICES TO THE ETHERNET NETWORK



RS232



RS232, RS422 or RS485

Part No.	Protocols	Serial Ports	Connections	Rack Mount	Power Required
RS232					
MOXA-NPORT-5110A	RS232	1	D9 Male		12 to 48Vdc
MOXA-NPort-5210	RS232	2	RJ45		12 to 48Vdc
MOXA-NPORT-5210A	RS232	2	D9 Male		12 to 48Vdc
MOXA-NPORT-5410	RS232	4	D9 Male		12 to 48Vdc
MOXA-NPORT-5610-8	RS232	8	RJ45		240Vac
MOXA-NPORT-5610-16	RS232	16	RJ45	Yes	240Vac
RS232, RS422 OR RS485					
MOXA-NPORT-5150A	RS232, 422/485	1	D9 Male		12 to 48Vdc
MOXA-NPORT-5232	RS232, 422/485	2	Terminal Block		12 to 48Vdc
MOXA-NPORT-5450	RS232, 422/485	4	Terminal Block		12 to 48Vdc
MOXA-NPORT-5650-8	RS232, 422/485	8	RJ45		240Vac
MOXA-NPORT-5650-16	RS232, 422/485	16	RJ45	Yes	240Vac

MOXA Accessories

COMMON MOXA ACCESSORIES



MOXA-CBL-RJ45M9-150



MOXA-DB9F-TB



MOXA-U-PORT-1150

Part No.	Description
MOXA-CBL-RJ45M9-150	RJ45 to D9 Male Cable (1.5m) - for NPORT 5210 / 5610
MOXA-CBL-RJ45F9-150	RJ45 to D9 Female Cable (1.5m) - for NPORT 5210 / 5610
MOXA-CBL-RJ45M25-150	RJ45 to D25 Male Cable (1.5m) - for NPORT 5210 / 5610
MOXA-CBL-RJ45F25-150	RJ45 to D25 Female Cable (1.5m) - for NPORT 5210 / 5610
MOXA-PWR-12120-AU-L1	240VAC NZ Wall Power Adapter 12VDC 1.2A SAA
MOXA-DB9F-TB	DB9 Female to Terminal Block (Easy to wire)
MOXA-RK-4U	19" Rack Kit for Din Rail Devices
MOXA-U-PORT-1150	Serial RS232,422/485 to USB Converter

MOXA Industrial GSM

REMOTE MAINTENANCE AND COMMISSIONING FOR MACHINERY



Details

Remote access gateway with both Ethernet and serial connections. Perfect for trouble shooting during commissioning on remote sites. Unit can either Text or Email you with the IP address. Simply enter the IP address into your PLC programming software and you can remotely connect. Full setup support available on request.

Application

- Remote commissioning
- Remote maintenance
- Remote data logging

Features

- Suitable with Telecom XT, Vodafone and 2 Degrees Sim Cards
- Excellent security features
- Can send predefined (alarm) text messages using onboard digital inputs
- Both Ethernet and Serial RS232, 422/485 onboard
- uses latest 3G technology for best data speeds (Switches to 2G if not available in local area)
- Industrial unit (12Vdc to 48Vdc)

Part No.	Description
OnCell-G3150-HSPA	MOXA OnCell Remote Dial In Unit

