



Features and Benefits

Factory terminated Plug and Play solutions offer enterprises a number of advantages over traditional cabling systems. The Molex ModLink Plug and Play Copper solution is no exception.

This system offers premium electrical performance up to speeds of 1000BASE-T and enables flexible configuration and cost effective installation. This solution utilizes Molex's patented iPass™ connector which was specifically designed for high density applications. This connects accommodates a 24 pair cable with a lower overall cable diameter than the traditional RJ45 bundles and as such assists in maximizing airflow and cooling in cable dense applications. All component elements of the Modlink Plug and Play Copper solution are 100% factory tested thus minimizing the need for on-site testing.

- Utilises the patented Molex iPass™ connector, designed specifically for high density applications.
- The iPass connector supports 6 X RJ45 ports
- All Plug and Play components are 100% factory tested
- 1U Patch panels can support 24 or 48 ports
- Modular Cassettes convert the iPass interface to a standard RJ45 interface and are available in 6 & 12 port versions – 4 cassettes per 1U Patch Panel
- Distribution cables support 6 a RJ45 ports and are available in CMR, CMP or LSOH cable sheaths.
- Hydra cable assemblies feature patented iPass high density, robust dies cast connectors on one end & RJ45 plugs on the other end
- Custom cable assembly lengths increments from 1M - 90M
- All components are RoHS compliant
- Backed by Molex's Global 25 year system performance warranty
- Independently verified by ETL

Commercial Standards

IEEE 802.3ab
TIA-568-C.2 Cat 5e
FCC Subpart F 68.5
ISO 60603-7
UL 1863

Pending Approvals:
CSA C22.2

Technical Information

Mechanical Characteristics

Patch Panel

Material: CRS (cold rolled steel)
Thickness: .06" (1.5mm)
Coating: Black

RJ45 Receptacle Connector

Housing: Thermoplastic Rated UL94 V-0
Operating Life: Min. 750 insertion cycles
Contact Material: Copper Alloy
Contact Plating: 30µ" Gold/100µ" Nickel
Contact Force: 100g minimum
Plug Retention Force: 49N minimum

iPass Receptacle Connector

Housing: Zinc Alloy
Contact Material: Copper Alloy
Contact Plating: 50µ" Gold/100µ" Nickel
Insertion Force: 60N

Distribution Cable Assembly

Conductor size: 24AWG solid bare copper
MAX OD: 12.7mm
Jacket: CMR, CMP, or LSOH
Temperature range: -20°C to +60°C

iPass Plug Connector

Housing: Zinc Alloy
Contact Material: FR4 PCB
Contact Pad Plating: 50µ" Gold/100µ" Nickel
Insertion Force: 60 N

Hydra Cable Assembly

Conductor size: 24AWG solid bar copper
MAX OD: 5.2mm (15.2mm Bundled)
Jacket: PVC
Temperature range: -20°C to +60°C

iPass Plug Connector

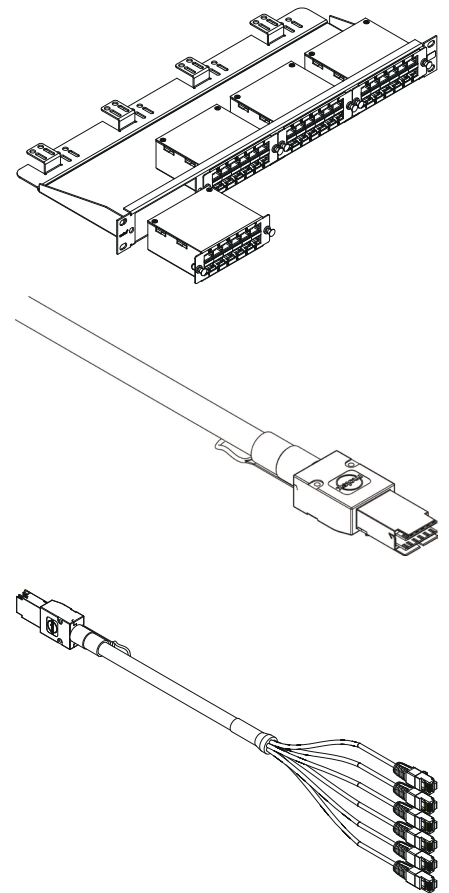
Housing: Zinc Alloy
Contact Material: FR4 PCB
Contact Pad Plating: 50µ" Gold/100µ" Nickel
Insertion Force: 60N

RJ45 Plug Connector

Housing: Polycarbonate
Contact material: Copper alloy
Contact plating: 1.25 µm Au/Ni
Plug mechanical characteristics compliant with FCC Part 68 IEC 60603-7

Electrical Characteristics

Max voltage: 30 Volts AC (RMS)/DC
Max
Max current: 0.5 Amps Max
Operating temperature: -40° to 85°C



MOLEX PREMISE NETWORKS

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ORDERING INFORMATION
Patch Panels

Order No.	SAP No.	Description
CMP-00007	183170006	48 Port Copper ModLink Panel, 1U with all cassettes loaded
CMP-00008	183170007	24 Port Copper ModLink Panel, 1U with all cassettes loaded
CMP-00009	183170008	Copper ModLink 12 Port Cassette
CMP-00010	183170009	Copper ModLink 6 Port Cassette
CMP-00005	0183170004	Copper ModLink Panel, 1U unloaded

Distribution Cables (iPass to iPass Cable Assemblies)

Order No.	SAP No.	Description
ICA-00126-08	183030125	iPass 24 pair Gigabit UTP CMP 25M- grey
ICA-00127-08	183030126	iPass 24 pair Gigabit UTP CMR 25M- grey
ICA-00128-08	183030127	iPass 24 pair Gigabit UTP CMP 30M- grey
ICA-00129-08	183030128	iPass 24 pair Gigabit UTP CMR 30M- grey
ICA-00130-08	183030129	iPass 24 pair Gigabit UTP CMP 35M- grey
ICA-00131-08	183030130	iPass 24 pair Gigabit UTP CMR 35M- grey
ICA-00132-08	183030131	iPass 24 pair Gigabit UTP CMP 40M- grey
ICA-00133-08	183030132	iPass 24 pair Gigabit UTP CMR 40M- grey
ICA-00134-08	183030133	iPass 24 pair Gigabit UTP CMP 45M- grey
ICA-00135-08	183030134	iPass 24 pair Gigabit UTP CMR 45M- grey
ICA-00136-08	183030135	iPass 24 pair Gigabit UTP CMP 50M- grey
ICA-00137-08	183030136	iPass 24 pair Gigabit UTP CMR 50M- grey
ICA-00138-08	183030137	iPass 24 pair Gigabit UTP LSOH 25M- grey
ICA-00139-08	183030138	iPass 24 pair Gigabit UTP LSOH 30M- grey
ICA-00140-08	183030139	iPass 24 pair Gigabit UTP LSOH 35M- grey
ICA-00141-08	183030140	iPass 24 pair Gigabit UTP LSOH 40M- grey
ICA-00142-08	183030141	iPass 24 pair Gigabit UTP LSOH 45M- grey
ICA-00143-08	183030142	iPass 24 pair Gigabit UTP LSOH 50M- grey

Custom lengths available upon request. Please contact your local sales office early for more information and to assist in developing a plan to suit your needs.

Hydra Cable Assemblies (iPass to 6 x RJ45 Plugs)

Order No.	SAP No.	Description
ICA-00150-08	183030149	iPass RJ45 Cable Assembly, 6 port PVC, 1M- grey
ICA-00151-08	183030150	iPass RJ45 Cable Assembly, 6 port PVC, 2M- grey
ICA-00152-08	183030151	iPass RJ45 Cable Assembly, 6 port PVC, 3M- grey
ICA-00153-08	183030152	iPass RJ45 Cable Assembly, 6 port PVC, 5M- grey
ICA-00154-08	183030153	iPass RJ45 Cable Assembly, 6 port PVC, 7M- grey
ICA-00155-08	183030154	iPass RJ45 Cable Assembly, 6 port PVC, 10M- grey

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