

高速互连解决方案

High-Speed Interconnect Solution



IMPRESSION OF ZHAOLONG

兆龙互连 (SZ.300913) 创建于 1993 年, 是专业从事数据线缆、专用线缆和连接产品设计, 制造与销售的高新技术企业, 是中国通信标准化协会全权会员、数据电缆国家标准起草单位。

兆龙为客户提供完整的高速互连解决方案, 研发人员可提供完整的 SI 分析和运用仿真来准确的预测产品性能, 同时与您共同开发解决方案, 实现速度、信号完整性、功耗与热管理的平衡, 我们的高密度、高带宽设计符合包括 SAS、PCIe、SATA、InfiniBand™和以太网在内的渐进标准的要求。

兆龙致力于不断发展我们在 EMC 分析和测试方面的能力, 为产品进行多种类型的 EMC 测试, 并将结果与 EMC 分析技术和在电磁理论方面的专业知识相结合, 为您提供服务器、存储设备、路由器、交换机、移动通信基础设施、RAID、工作站、高速网络接口等相互间的系列高速线缆组件产品。

快速、灵活的为客户服务, 可提供客户深度定制化要求, 并可实现快速交付, 可靠品质, 可追溯性等一系列增值服务。

连接美好未来

企业文化 CULTURE

使命 MISSION

为顾客提供价值

DELIVER VALUE TO CUSTOMERS

为社会创造财富

CREATE WEALTH FOR SOCIETY

愿景 VISION

成为世界先进的

BE WORLD ADVANCED DATA CABLES.DEDICATED CABLES

数据线缆·专用线缆和连接产品

AND CONNECTION PRODUCTS DESIGN

的设计与制造企业

AND MANUFACTURING ENTERPRISES

价值观 VALUE

专注

FOCUS

诚信

INTEGRITY

创新

INNOVATION

快速

RAPID

品质

QUALITY

可持续

SUSTAINABLE

服务理念 SERVICE CONCEPT

用生生不息的创意

WITH ENDLESS CREATIVITY

让我们的顾客满意

KEEPING THE CUSTOMERS SATISFIED

HIGH SPEED INTERCONNECT 高速互连事业部

开放数据中心委员会
Open Data Center Committee

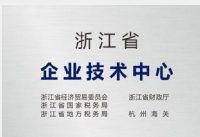
HiWire Consortium

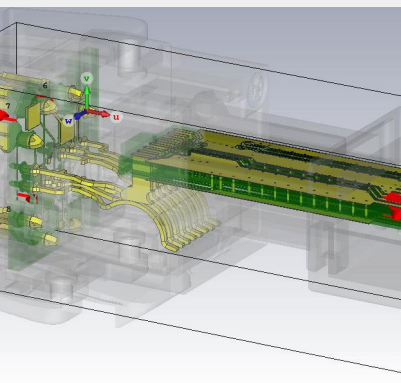
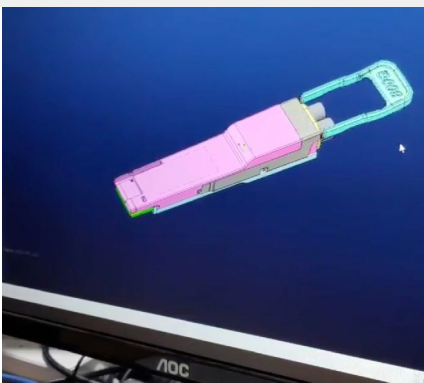
Zhaolong provides various services to high-speed interconnection solutions for customer needs. During new product development, our engineer team is capable to provide Signal Integration simulation and analysis performance to achieve the targeted balance of transmitting speed, signal integrity, power consumption and thermal management. This can help us to design higher density, higher bandwidth products to meet the updating requirements of SAS, PCIe, SATA, InfiniBand™ and Ethernet.

We can provide excellent customer services, customized product capabilities, reliable quality with complete product traceability.

INNOVATION DRIVES DEVELOPMENT

创新·驱动发展





产品设计 / Product Design

硬件电路 / Hardware Circuit Design

SI 仿真 / SI Simulation

模流分析 / Mold Flow Analysis

应力分析 / Stress Analysis

电路设计布局 / Schematics & Layout

机构设计 / Mechanical

研发团队 / R&D Team Member

100 多人的研发团队 / More than 100 R&D team

带队专家: /Leading Experts

博士 / PhD IEEE 高级会员 /Senior member of IEEE

资深工程师 /Senior Engineer

中国通信光电缆专家委员会委员

/Member of Optical and Cable Expert Committee of China

资深教授: /Senior Prof

IEEE 会士 /IEEE Fellow

清华大学材料学院教授

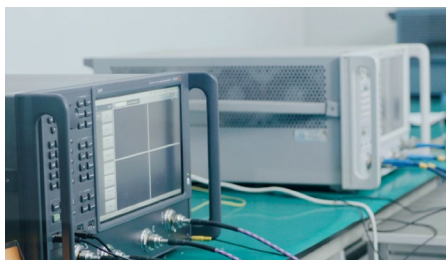
/Professor, School of Materials Science, Tsinghua University

上海电缆研究所教授级高工

/Professor-level senior engineer of Shanghai Cable Research Institute

浙江大学信电学院教授

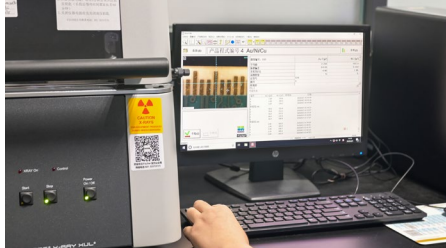
/Professor, School of Information and Electronics, Zhejiang University



信号完整性测试 / Signal Integrity

环境测试 / Environment

电子测试 / Electrical



ABSORPTION MAKES PROFESSION

专业·源于专注

优质高效 · 诚实守信

High quality, efficient, honest and trustworthy



ISO 9001



ISO 14001



ISO 14001



ISO 50001



IATF 16949



IRIS Certification

智能制造

INTELLIGENT MANUFACTURING



企业网资源规划系统 EPR



制造执行系统 MES



条码追溯系统 Barcode Traceability System



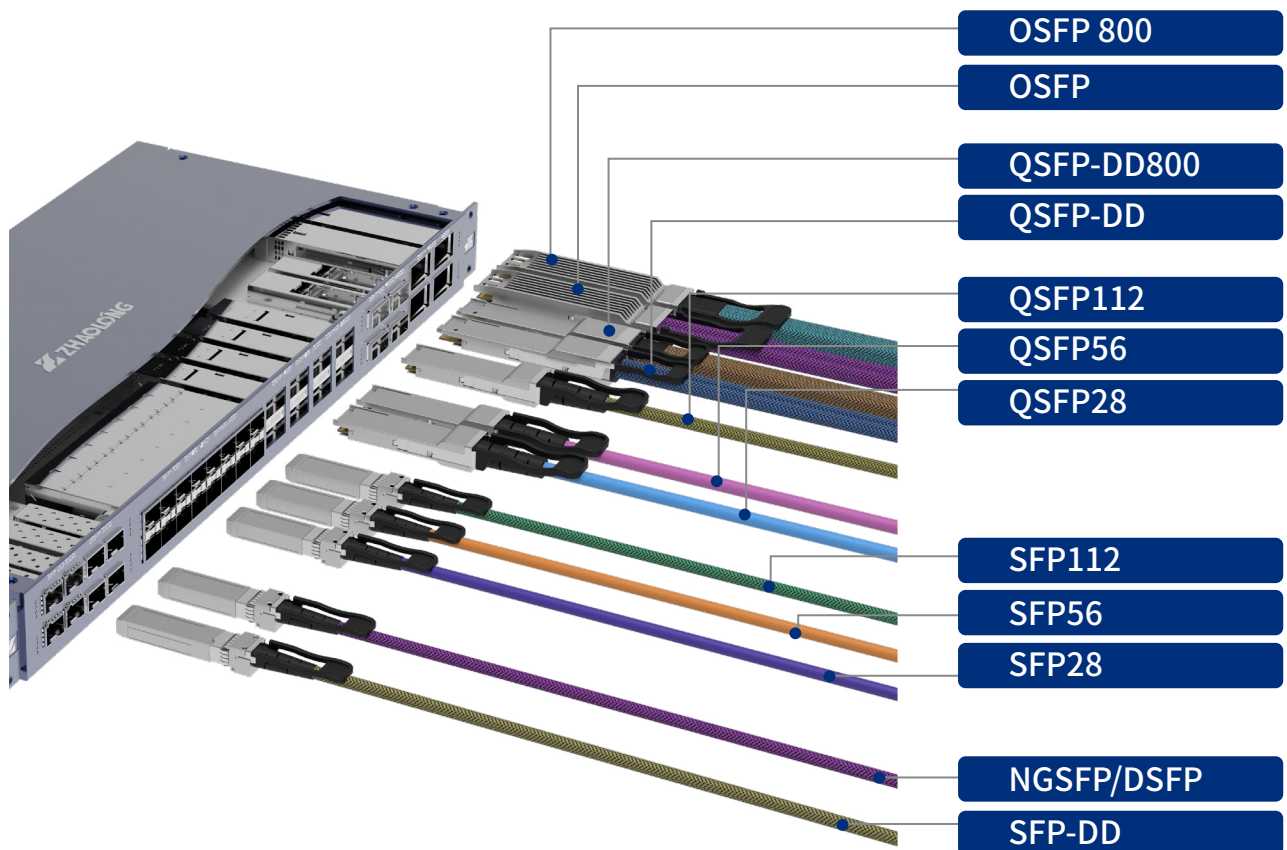
高速裸线车间 / High Speed Raw Cable Workshop 物料条码追溯系统 / Barcode Traceability System



组件车间 / Cable Assembly Workshop MES 生产管理 / MES System Control

以太网高速互连

Ethernet Application



提供 10G/25G/40G/100G/200G/400G/800Gbps

高速无源 / 有源连接解决方案

高速率、低功耗

支持当前以太网各种速率协议应用

Provide DAC/ ACC For 10G/25G/40G/100G/200G/400G/800Gbps Application

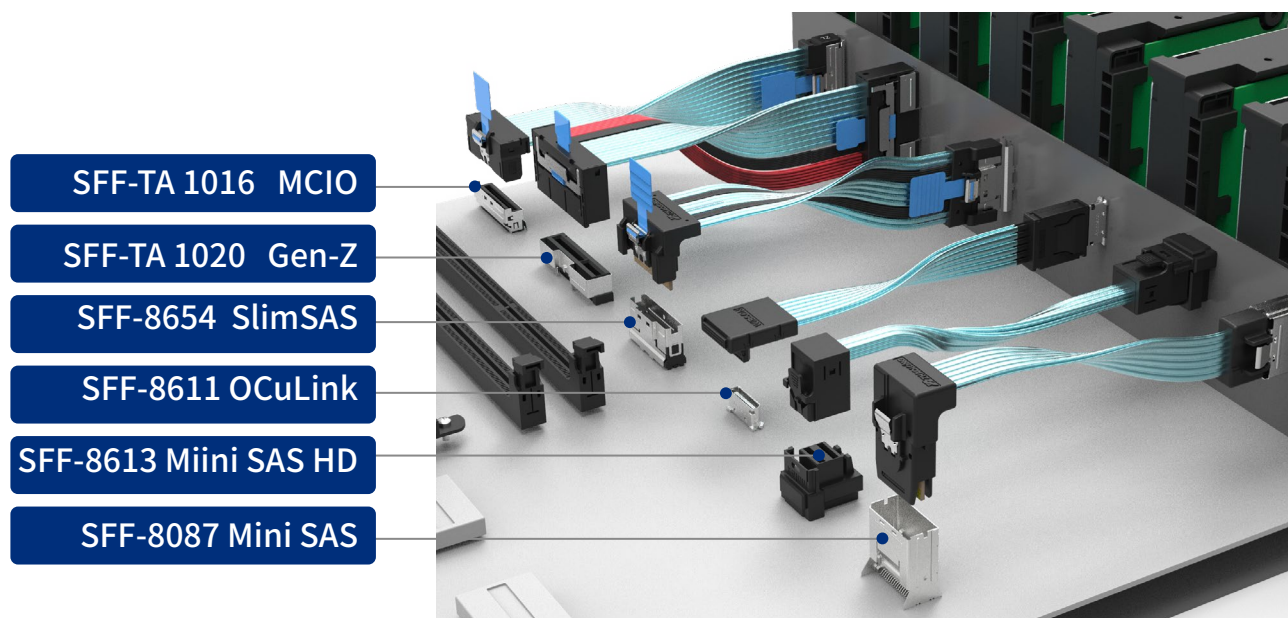
High speed, low power consumption

Support applications of the current Ethernet protocols at various transmission rates



服务器内部互连

Sever/Storage Application



帮助服务器满足更高的带宽和更好的热性能管理。
支持通用式，机架式，刀片式服务器应用。
支持深度定制，更高密，更高速，更节能。
通过主流行业标准协议，快速、无缝、安全的传输数据。

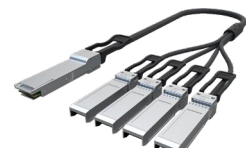
Help servers meet the demands for higher bandwidth and better thermal performance management.
Support applications of general-purpose, rack-mount, blade servers.
Support customization of higher-density, higher-speed, and more energy-saving products.
Fast, seamless and secure data transfer via the standard protocols of the mainstream industry.



外部高速线

External High Speed Cable

DAC (Direct Attach Copper Cable)

OSFP800 OSFP	PAM4-800G PAM4-400G NRZ-200G	OSFP to OSFP	OSFP to 2*QSFP	OSFP to 8*SFP
				
QSFP-DD800 QSFP-DD	PAM4-800G PAM4-400G NRZ-200G	QSFP-DD to QSFP-DD	QSFP-DD to 2*QSFP	QSFP-DD to 8*SFP
				
QSFP112 QSFP56 QSFP28 QSFP+	PAM4-400G PAM4-200G NRZ-100G NRZ-40G	QSFP to QSFP	QSFP to 2*QSFP	QSFP to 4*SFP
				
NGSFP (DSFP)	PAM4-100G	NGSFP to NGSFP (100G to 100G)	QSFP56 to 2*NGSFP (200G to 2*100G)	QSFP-DD to 4*NGSFP (400G to 4*100G)
				
SFP-DD	PAM4-100G	SFP-DD to SFP-DD (100G to 100G)	QSFP56 to 2*SFP-DD (200G to 2*100G)	QSFP-DD to 4*SFP-DD (400G to 4*100G)
				
SFP112 SFP56 SFP28 SFP+	PAM4-100G PAM4-50G NRZ-25G NRZ-10G	SFP112 to SFP112	SFP56 to SFP56	SFP28 to SFP 28
				

ACC (Active Redriver Copper Cable)

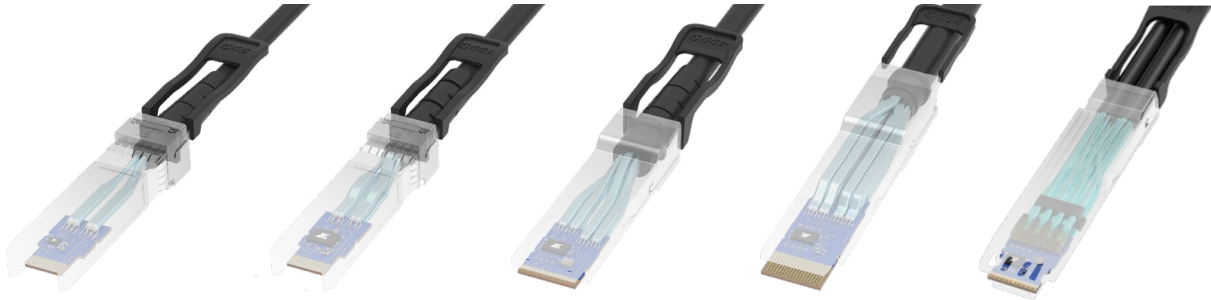
SFP112/SFP56(28)

NGSFP(DSFP)

QSFP-112/QSFP

QSFP-DD800/QSFP-DD

OSFP 800/400



Shielded Mini SAS HD (SFF-8614/SFF-8644/SFF-8674)

HD 4X 36Pos to HD 4X 36Pos
(SAS/PCIe Application)

HD 8X 72Pos to HD 8X 72Pos
(SAS/PCIe Application)

HD 8X to 2* HD 4X
(SAS/PCIe Application)



AOC (Active Optical Cable)

QSFP28 100G AOC

QSFP+ 40G AOC

SFP28 25G AOC

SFP+ 10G AOC



Transceiver

QSFP28 100G SR8

SFP28 25G SR/LR

SFP+ 10G SR/LR



内部高速线

Internal High Speed Cable

SFF-TA-1016 MCIO Cable Assembly (With Pull Tab Type)

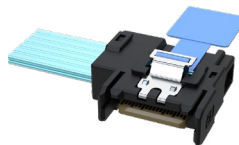
4X/38Pos-STR
(Straight w/ Pull Tab)



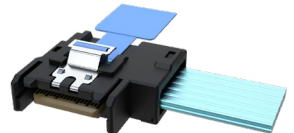
4X/38Pos-R/A
(Right Angel w/ Pull Tab)



4X/38Pos-LSE
(Left Side Exit w/ Pull Tab)



4X/38Pos-RSE
(Right Side Exit w/ Pull Tab)



8X/74Pos-STR
(Straight w/ Pull Tab)



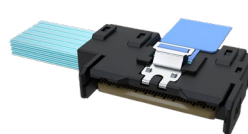
8X/74Pos-R/A
(Right Angel w/ Pull Tab)



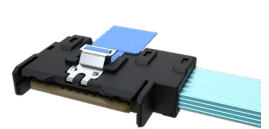
8X/LP R/A
(Low profile Right Angel w/
Pull Tab)



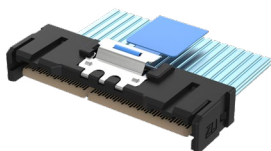
8X/74Pos-LSE
(Left Side Exit w/ Pull Tab)



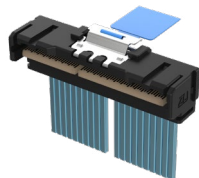
8X/74Pos-RSE
(Right Side Exit w/ Pull Tab)



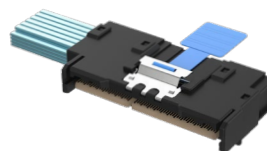
16X / 124Pos -STR
(Straight w/Pull Tab)



16X/124Pos-R/A
(Right Angel w/ Pull Tab)



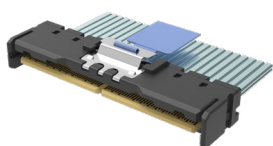
16X/124Pos-LSE
(Left Side Exit w/ Pull Tab)



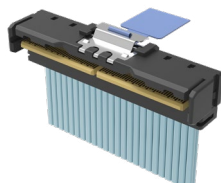
16X/124Pos-RSE
(Right Side Exit w/ Pull Tab)



24X / 148Pos -STR
(Straight w/Pull Tab)



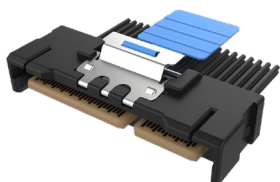
24X/148Pos-R/A
(Right Angel w/ Pull Tab)



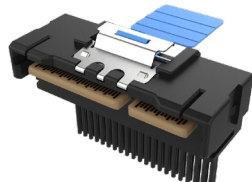
PCIe X16 to MCIO RISER Cable
(1PCIe X16 Slot)



84Pos -STR
(Straight w/Pull Tab)



84Pos-R/A
(Right Angel w/ Pull Tab)



SFF-TA-1016 MCIO Cable Assembly

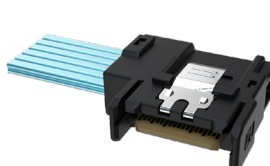
4X/38Pos-STR
(Straight)



4X/38Pos-R/A
(Right Angel)



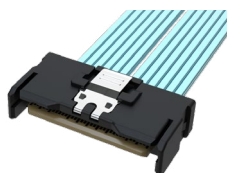
4X/38Pos-LSE
(Left Side Exit)



4X/38Pos-RSE
(Right Side Exit)



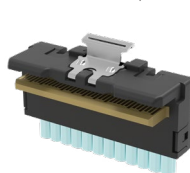
8X/74Pos-STR
(Straight)



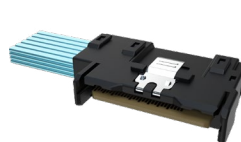
8X/74Pos-R/A
(Right Angel)



8X/LP R/A
(Low profile Right Angel w/
Pull Tab)



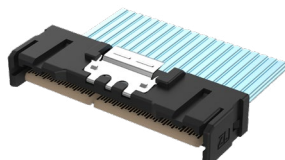
8X/74Pos-LSE
(Left Side Exit)



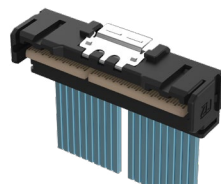
8X/74Pos-RSE
(Right Side Exit)



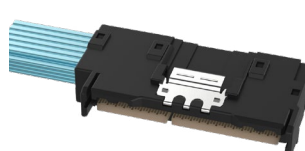
16X/124Pos-STR
(Straight)



16X/124Pos-R/A
(Right Angel)



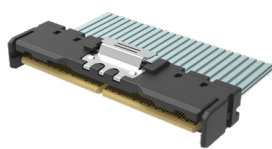
16X/124Pos-LSE
(Left Side Exit)



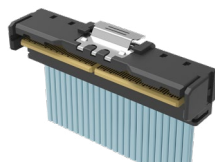
16X/124Pos-RSE
(Right Side Exit)



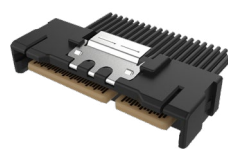
24X / 148Pos -STR
(Straight)



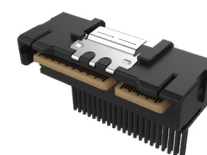
24X/148Pos-R/A
(Right Angel)



84Pos -STR
(Straight)



84Pos-R/A
(Right Angel)

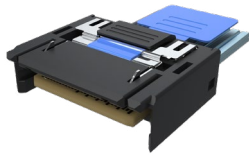


内部高速线

Internal High Speed Cable

SFF-TA-1020 Gen-Z Cable

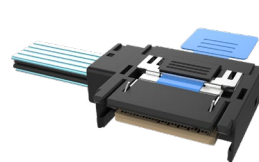
1C/56Pos-STR
(Straight)



1C/56Pos-R/A
(Right Angel)



1C/56Pos LSE
(Left Side Exit)



1C/56Pos RSE
(Right Side Exit)



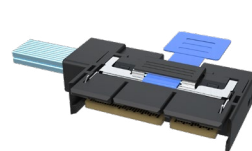
2C/84Pos-STR
(Straight)



2C/84Pos-R/A
(Right Angel)



2C/84Pos-LSE
(Left Side Exit)



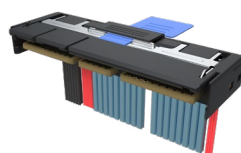
2C/84Pos-RSE
(Right Side Exit)



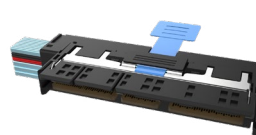
4C/140Pos-STR
(Straight)



4C/140Pos-R/A
(Right Angel)



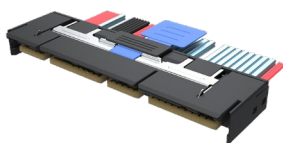
4C/140 Pos LSE
(Left Side Exit)



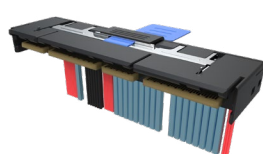
4C/140 Pos RSE
(Right Side Exit)



4C+/168Pos-STR
(Straight)



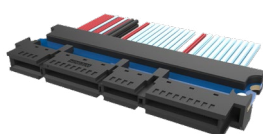
4C+/168Pos-R/A
(Right Angel)



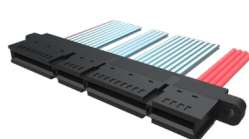
PCIe CEM Riser Cable



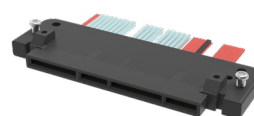
SFF-TA-1002 4C+ Receptacle
(Straight)



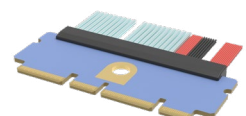
SFF-TA-1002 4C+ Receptacle
(Straight w/ Ear Hole)



SFF-TA 1002 4C+
Receptacle

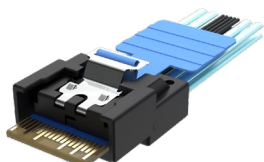


SFF-TA 1002 4C+ Plug

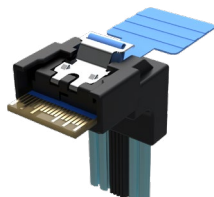


SFF-8654 SlimSAS Cable (Pull Tab Type)

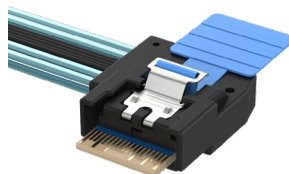
4X/38Pos-STR
(Straight)



4X/38Pos-R/A
(Right Angel)



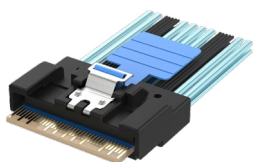
4X/38Pos-LSE
(Left Side Exit)



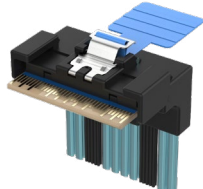
4X/38Pos-RSE
(Right Side Exit)



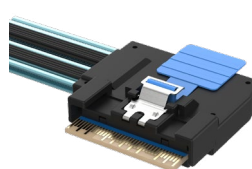
8X/74Pos-STR
(Straight)



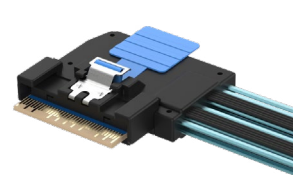
8X/74Pos-R/A
(Right Angel)



8X/74Pos-LSE
(Left Side Exit)

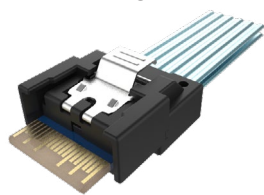


8X/74Pos-RSE
(Right Side Exit)



SFF-8654 SlimSAS Cable (Anti-Skew Mated)

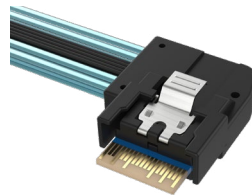
4X/38Pos-STR
(Straight)



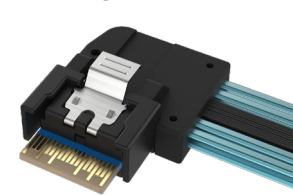
4X/38Pos-R/A
(Right Angel)



4X/38Pos-LSE
(Left Side Exit)



4X/38Pos-RSE
(Right Side Exit)



8X/74Pos-STR
(Straight)



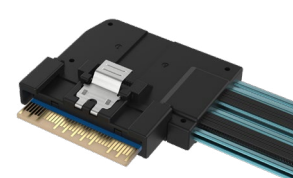
8X/74Pos-R/A
(Right Angel)



8X/74Pos-LSE
(Left Side Exit)



8X/74Pos-RSE
(Right Side Exit)

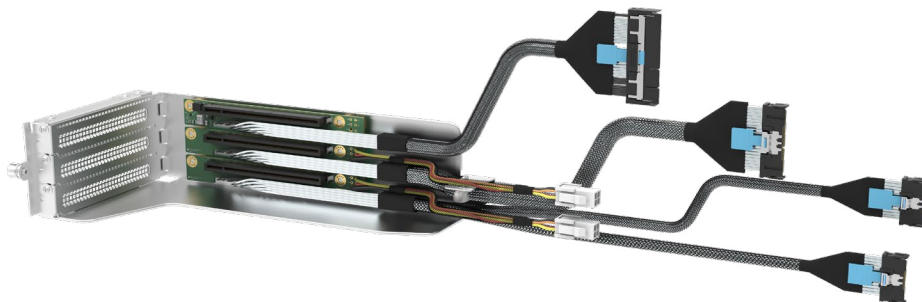


内部高速线

Internal High Speed Cable

PCIe 5.0 Riser Cable

OCSF Riser Cable



PCIe 5.0 X16
to GEN-Z4C



PCIe 5.0 X16 to
MCIO 16X



PCIe 5.0 X16
to 2*MCIO 8X

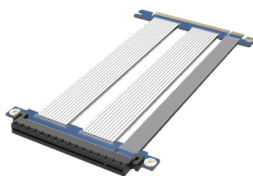


Weld Soldering
Technology

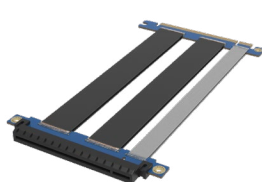


PCIe Extender Cable

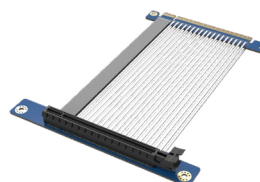
PCIe 5.0 X16 Riser Cable
(Straddle ,Twin-Ax)



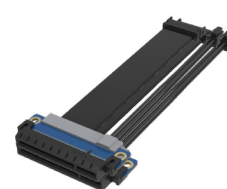
PCIe 5.0 X16 Riser Cable
(Straddle , FFC Type)



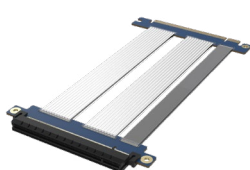
PCIe 5.0 X16 Riser Cable
(Vertical, Twin-Ax)



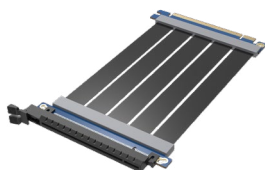
PCIe 5.0 X8 Riser Cable
(X8 to MCIO 8X w/ Power)



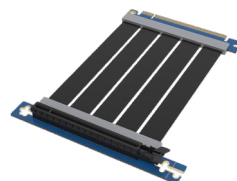
PCIe 4.0 X16 Riser Cable
(Straddle ,Twin-Ax)



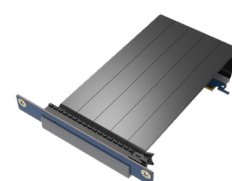
PCIe 4.0 X16 Riser Cable
(Straddle , One Layer FFC)



PCIe 4.0 X16 Riser Cable
(Vertical, One Layer FFC)



PCIe 4.0 X16 Riser Cable
(Reverse , One Layer FFC)



SFF-8654 SlimSAS Cable

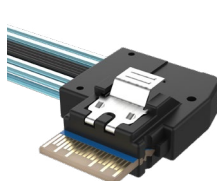
4X/38Pos-STR
(Straight)



4X/38Pos-R/A
(Right Angel)



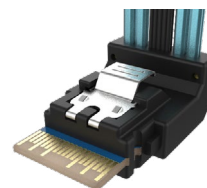
4X/38Pos-LSE
(Left Side Exit)



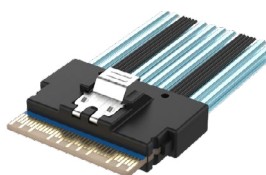
4X/38Pos-RSE
(Right Side Exit)



4X/38Pos-RR/A
(Reverse Right Angel)



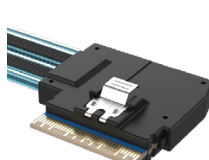
8X/74Pos-STR
(Straight)



8X/74Pos-R/A
(Right Angel)



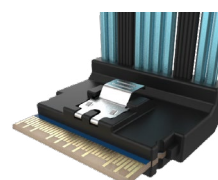
8X/74Pos-LSE
(Left Side Exit)



8X/74Pos-RSE
(Right Side Exit)



8X/74Pos-RR/A
(Reverse Right Angel)



Unshielded Mini SAS HD (SFF-8613/SFF-8643/SFF-8673)

HD 4i/36Pos-STR
(Straight)



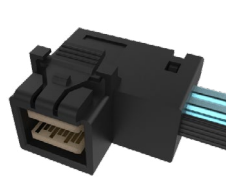
HD 4i/36Pos-R/A
(Right Angel)



HD 4i/36Pos-LSE
(Left Side Exit)



HD 4i/36Pos-RSE
(Right Side Exit)



HD 4i/36Pos-RR/A
(Reverse Right Angel)



HD 8i/72Pos-STR
(Straight)



HD 8i/72Pos-R/A
(Right Angel)



HD 8i/72Pos-LSE
(Left Side Exit)



HD 8i/72Pos-RSE
(Right Side Exit)



HD 8i/72Pos-RR/A
(Reverse Right Angel)



内部高速线

Internal High Speed Cable

SFF-8087 Mini SAS Cable

Mini SAS 36Pos-STR (Straight) Mini SAS 36Pos-R/A (Right Angel) Mini SAS 36Pos LSE (Left Side Exit) Mini SAS 36Pos RSE (Right Side Exit) Mini SAS 68Pos-STR (Straight) Mini SAS 68Pos-R/A (Right Angel)



SATA / SAS / SFF-8639 SAS/PCIe

SFF-8639 / SFF-8482 Cable SATA 7 Pin Straight SATA 7Pin Right Angel SATA 7 Pin Right Angel



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BE WORLD ADVANCED DATA CABLES.DEDICATED CABLES

数据线缆、专用线缆和连接产品的

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AND MANUFACTURING ENTERPRISES

铜布线方案

Copper Cabling System

COPPER SYSTEM

S-series Angle-type
Empty Patch Panel



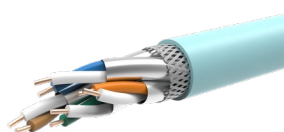
S-series Empty Patch Panel



E-series Empty Patch Panel



S/FTP CAT8



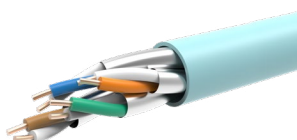
CAT8 Shielded Module



CAT8 MPTL



U/FTP CAT6_A



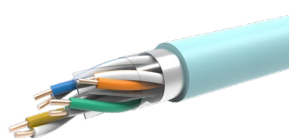
CAT6_A Shielded Module



CAT6_A Shielded MPTL



U/UTP CAT6_A



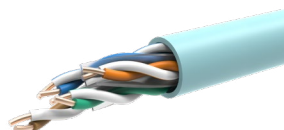
CAT6_A Unshielded Module



CAT6_A Patch Cord



U/UTP CAT6



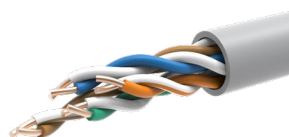
CAT6 Unshielded Module



MicroLink™ CAT6 Patch Cord



U/UTP CAT5e



CAT5e Unshielded Module



CAT5e Patch Cord



OPTICAL SYSTEM

MPO Trunk Cable



MPO Fan-out patch cord



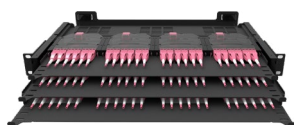
LC Patch Cord



LC Patch Cord



HG MPO Shelf



HG MPO Cassette



HK MPO Shelf



HK MPO Cassette



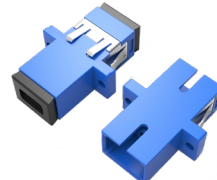
Optical Shelf



Optic Adapter



Optic Adapter





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www.zhaolong.com.cn



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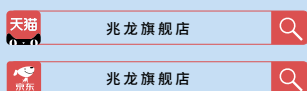
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