



詮欣股份有限公司
CHANT SINCERE CO., LTD.

Slimline Oculink Mini-SAS HD





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About Chant Sincere



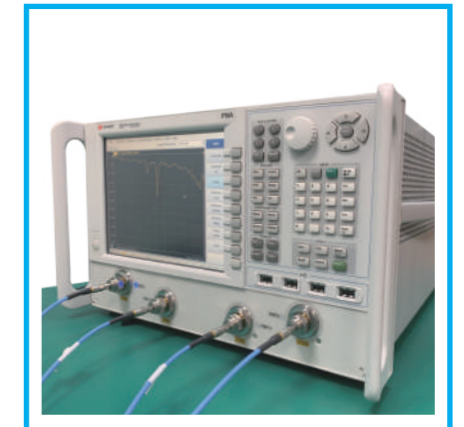
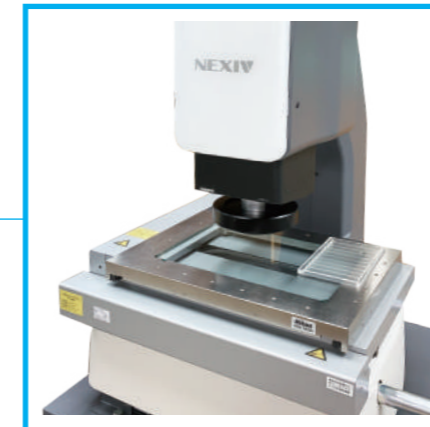
- **Chant Sincere Co., Ltd.** was set up in 1985., With the management concept of “Honest, Innovative, Quality, Longterm” to design and manufacture connector and cable. Keep developing new innovative products and integrating vertically from R&D, tooling, assembly and quality control to meet the demands (quality/cost/delivery) from customers. Chant Sincere Co., Ltd. Has been constructing various of product families to provide a total solution to customers.
The connector and cable products are widely used in many different application , such as Computing, Industrial & Automation, Telecommunication, Automotive, Waterproof, Consumer and Medical Industry.

- **Chant Sincere** won the “National Bedrock Award” & “Small Giant Award” from Taiwan Connector maker competition and got many “Best Supplier awards” from Global customers. We are focusing on improving our design and manufacture technology, and we have been applying for a lot of international patents for our products including I/O connector, Board to Board connector, Waterproof connector, Industrial Connector, Automotive connector, Memory Card connector and adaptor, High Speed connector/cable (USB3.1), Audio & Vidio connector and cable (HDMI,Display Port)...etc.
Chant Sincere Co., Ltd. Has been growing up as a global professional manufacturer for connector and cable.

The Core Competence of Chant Sincere Co.,Ltd. including.

- Over 36 Years Manufacture Experience
- ODM/OEM Capability
- Vertical Integration (Design, Tooling, Manufacturing, Test)
- Automation Capability
- Precise Tooling Center
- Wide Range of Product Line
- Systematic Testing Process
- Customized Capability
- Quality System (ISO,IATF)
- National Awards Rising Sun Awards/Best Supplier Awards

ISO 13485
IATF 16949
ISO 14001
ISO 9001



Quality systems

COXOC Quality Assurance department meets our customers' quality requirements by practicing continual improvement in our quality assurance processes and increasing customers' satisfaction in the quality of our products.

The effectiveness of COXOC QA operation is certified by well-known organizations such as ISO9001 Quality Assurance Management System, ISO 14001 Environmental Management System, ISO/IATF 16949 for Automobile Industry Quality Management System, and ISO13485 Medical Devices Quality Management System, COXOC integrated supply chain and devoted staff has enabled us to build a solid foundation and core capability to better serve our customers. It is COXOC principal to always meet and exceed customer expectation by providing superior products and services. COXOC ultimate goal is to create value for our customers by building collaborative and mutually beneficial relationships.

Competencies & Technology

The R&D Center at Chant Sincere leads the industry in research, design, and manufacturing of numerous key parts. This center has successfully developed for both wired and wireless solutions for computer peripherals, communication systems, and automobiles/industrial/medical equipment. Our solid R&D team formed a strong foundation in advance manufacturing technology and superior quality control that also enabled high value adding service for customers.

USB type C connectors is an example of the fruits of our research. This miniature and unidirectional interface provides many useful functions such as lighting data transfer rate up to 10 Gbits/s, DP ALT Mode high-definition video signal support, and brilliant 100W charging capability. Chant Sincere advanced the research further into higher specs such as USB 3.2 and USB 4.0 and offers customized solution for various of industrial applications. We delivered comprehensive solutions in bridging the diverse need for new interface and solve on-going product design issues for customers.

QSFP-DD is an ultra-fast interface that transmit data at 400Gbps speed. At this speed, stringent requirement for signal integrity and operating temperature is inviable which imposed huge challenges for the industry. At Chant Sincere, we implemented comprehensive computational software, state of art measuring equipment and eminent R&D capability to aid the solution delivering process. The analysis process includes simulation under CST MSW (Time Domain Simulation), ANSYS HFSS (Frequency Domain Simulation) for signal integrity as well as real-time measurement using test boards and PNA (up to 43.5GHz) to deliver quality reports for signal integrity (S-parameter, Gain compression, conversion gain/loss, noise level). We further performed simulation of its operating temperature using Icepak (Heat transfer and fluid flow simulator). This enabled the performance optimization for heat dissipation solution. With the above R&D skills we successfully delivered the desired professional service within the shortest time frame for our customers.



Slimline

Slimline Application

- Slimline is an upgraded interface from Mini-SAS. With downsized form factor can save more space for new storage equipment which has dimension limit to cover more storage units.

Application

- Server
- Switch
- Storage

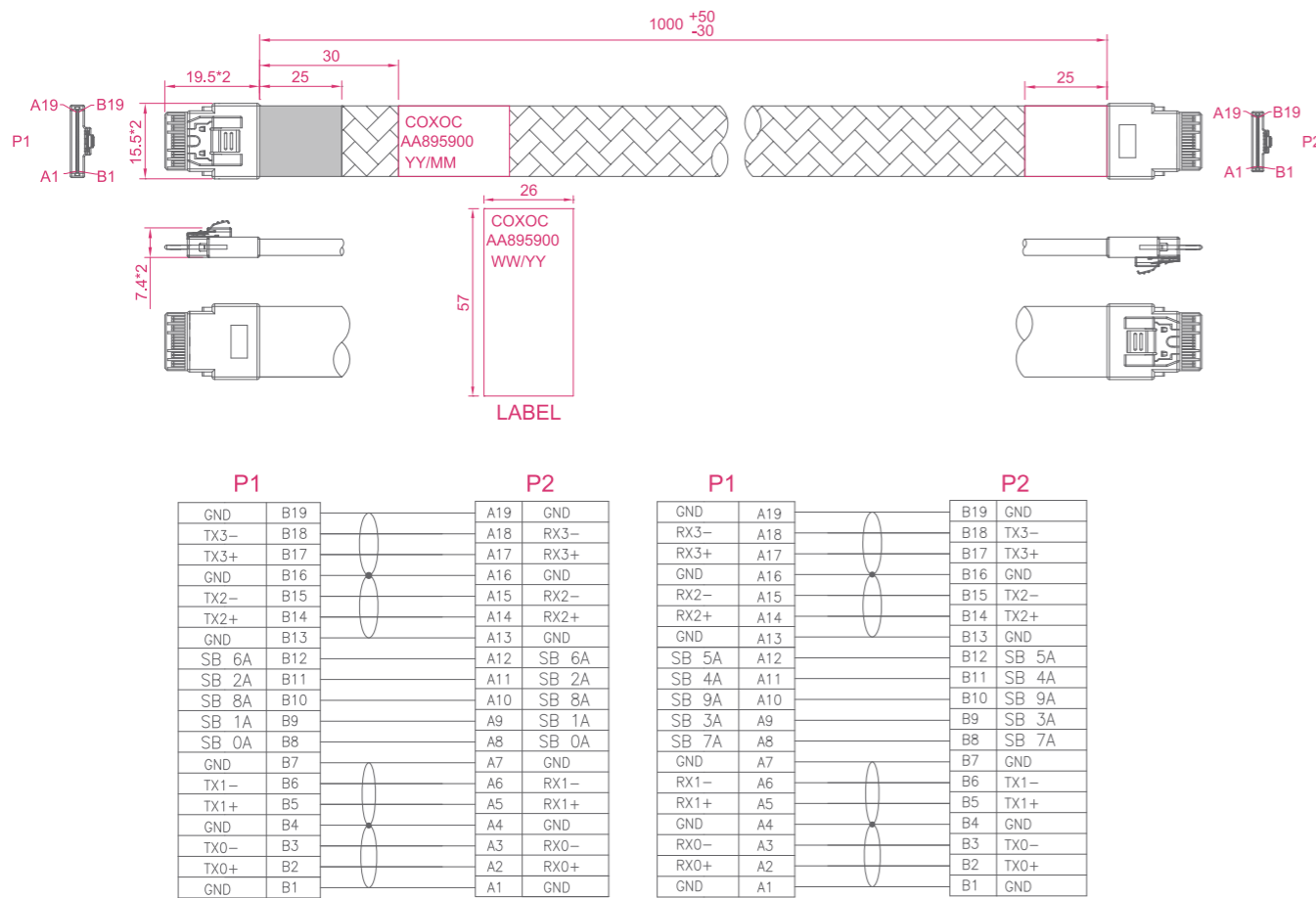
Product Characteristics

- Small and thin form factor
- Pitch 0.6mm and 4x,6x,8x,12x options
- Being able to use in internal and external application
- Meet SAS 4.0(24Gbps)

Slimline 4i STR to 4i STR Cable



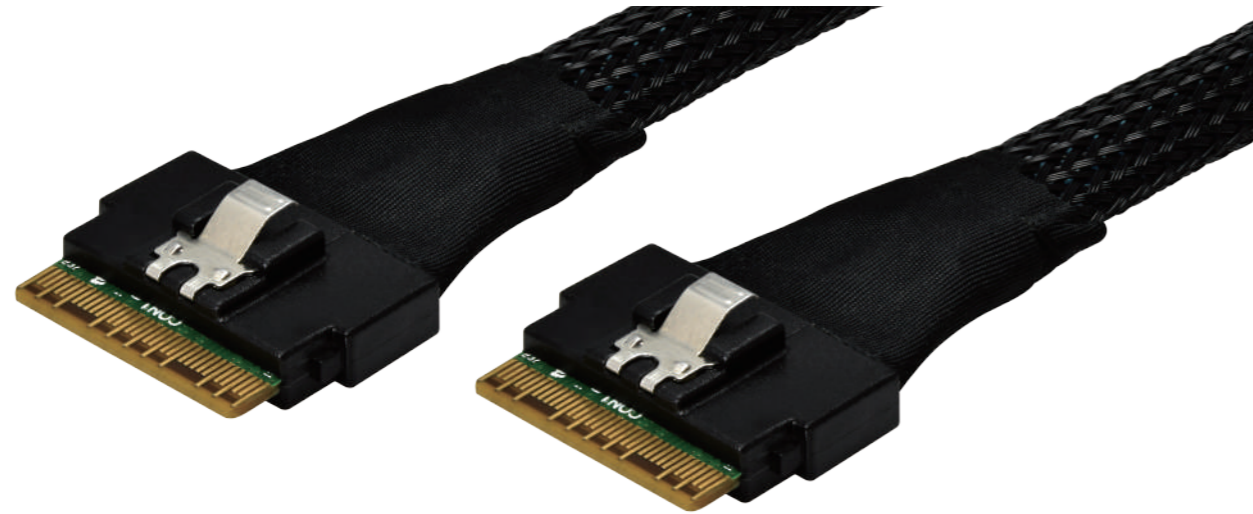
Drawing



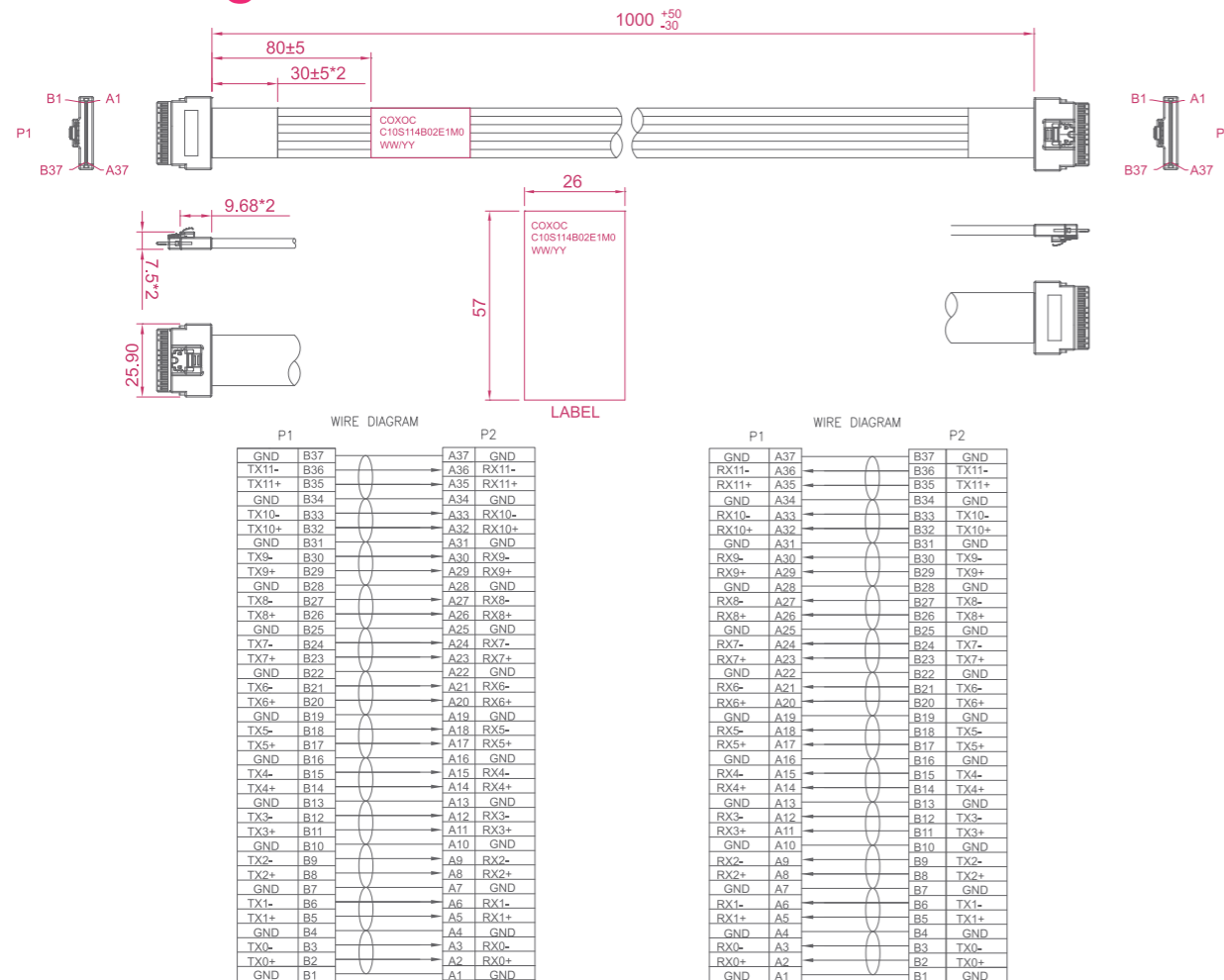
Specification

Description		Slimline 4i STR to 4i STR Cable
Part no.		C10S214B01E1M0
Material	Contact	15µin min hard Gold pated contact pads
	Cable Overmold	Thermoplastic resin UL94V-1
	Latch	Stainless steel
	Raw Cable	Tinned copper conductor 32AWG
		Propylene polymers dielectric
Tinned copper drain wire		
	Polyester tape jacket	
Electrical Mechanical	Impedance	85Ω, optional 100Ω
	Data Rate	24Gbps per channel
	Within Pair Skew	Max. 10 ps/m
	Rated Voltage	30V
	Rated Current	0.5A per pin
	Durability	50 mating cycles
	Mating force	Connector with Latch Feature Disabled:21N max.
	Un-Mating force	Connector with Latch Feature Disabled:18N max.
Environmental	Storage Temperature	-20° to 85°C
	Operating Temperature	0° to 80°C
	Flammability Rating	VW-1
	Safety Certificates	RoHS compliant

Slimline 8i STR to 8i STR Cable



Drawing



Specification

Description		Slimline 8i STR to 8i STR Cable	
Part no.		C10S114B02E1M0	
Material	Contact	15μin min hard Gold pated contact pads	
	Cable Overmold	Thermoplastic resin UL94V-1	
	Latch	Stainless steel	
	Raw Cable	Tinned copper conductor	32AWG
		Propylene polymers dielectric	
Tinned copper drain wire			
	Polyester tape jacket		
Electrical Mechanical	Impedance	85Ω, optional 100Ω	
	Data Rate	24Gbps per channel	
	Within Pair Skew	Max. 10 ps/m	
	Rated Voltage	30V	
	Rated Current	0.5A per pin	
	Durability	50 mating cycles	
	Mating force	Connector with Latch Feature Disabled: 31N max.	
	Un-Mating force	Connector with Latch Feature Disabled: 24N max.	
Environmental	Storage Temperature	-20° to 85°C	
	Operating Temperature	0° to 80°C	
	Flammability Rating	VW-1	
	Safety Certificates	RoHS compliant	

■ SlimSAS

SlimSAS		
	4i	8i
STR		
RA		

■ SlimSAS Low Profile

Product List			
	4i	8i	16i
STR			
RA			
RS			
LS			

Oculink

Oculink Application

- Based on PCI-SIG, Oculink can transmit multiple protocols in different storage applications. It also has a small form factor suitable for future design with higher port density.

Application

- Server
- Switch
- Storage

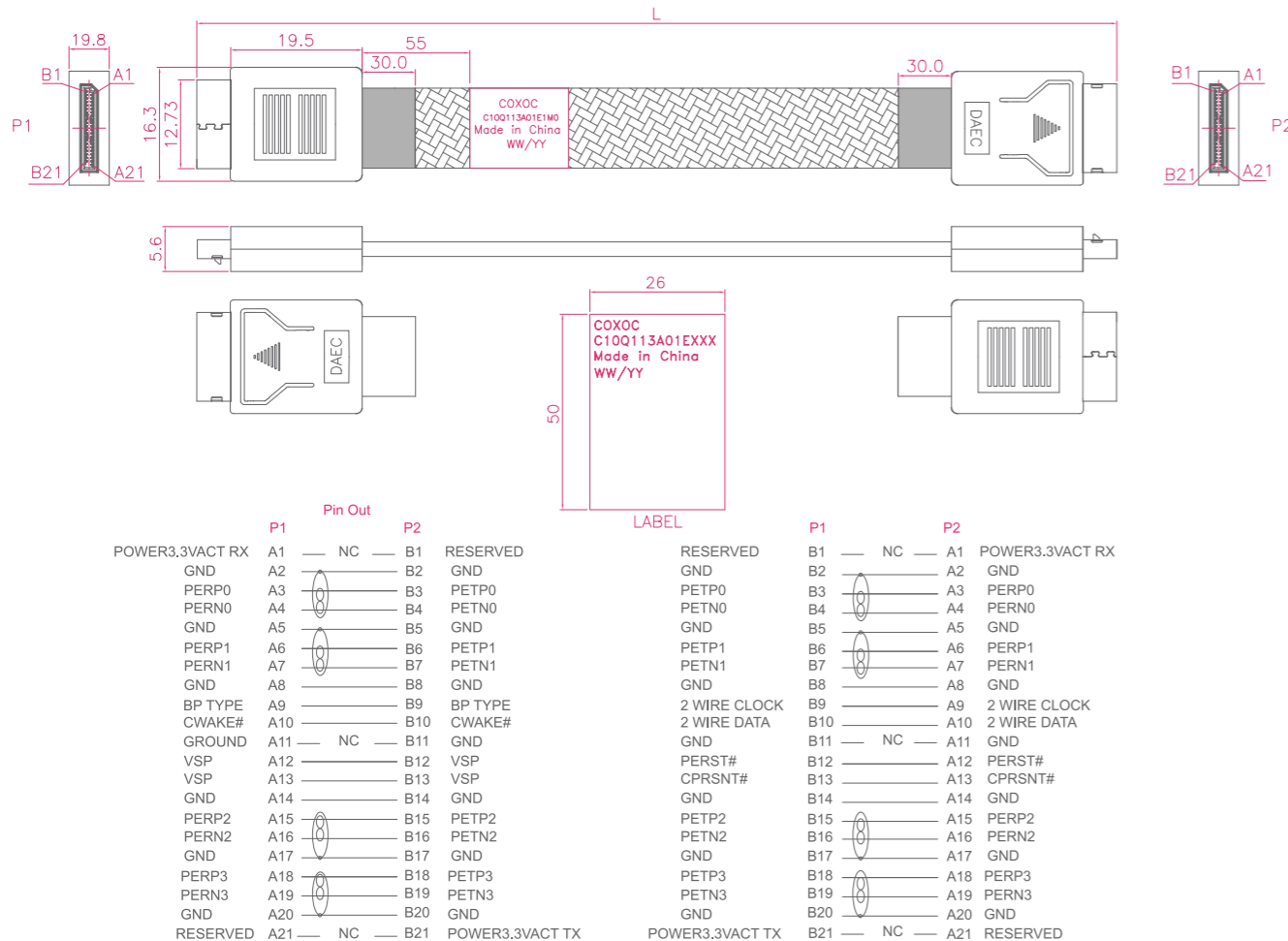
Product Characteristics

- Meet PCIe Gen 4(16Gbps), SAS 4.0(24Gbps), SATA
- Pitch 0.5mm
- Internal and External Solution
- Locking function with latch

Oculink 4i STR to 4i STR Cable





Drawing



Specification

Description		Oculink 4i STR to 4i STR Cable
Part no.		C10Q113A01E1M0
Material	Contact	30µin min hard Gold pated contact pads
	Connector housing	Thermoplastic UL94V-0
	Active latch	Stainless steel
	Raw Cable	Tinned copper conductor 32AWG
		Propylene polymers dielectric
Tinned copper drain wire		
	Polyester tape jacket	
Electrical Mechanical	Impedance	85Ω, optional 100Ω
	Data Rate	24Gbps per channel
	Within Pair Skew	Max. 10 ps/m
	Rated Voltage	30V
	Rated Current	0.5A per pin
	Durability	250 mating cycles
	Mating force	Connector W/Active latch: 8~40N Connector W/Passive latch: 10~40N
	Un-Mating force	8~25N
	Wrenching test	Max 10N for each axis direction
	Environmental	Storage Temperature
Operating Temperature		0° to 80°C
Flammability Rating		VW-1
Safety Certificates		RoHS compliant

■ **Oculink Series**

Product List	Description	Part no.
	OCulink 4i R/A to OCulink 4i STR Cable 55cm	C10Q414B01E450
	OCulink 4i STR to Mini-SAS HD 8i Cable 70cm	C10Q214A01E70C



Mini-SAS HD

Mini-SAS HD Application

- Mini-SAS HD is new interface for storage application and it can take 6/12/14Gbps bandwidth. The efficiency is better than SAS 2.1 and 3.0. For connector side, it has 4x, 8x, 16x and for cable side, it has 4x and 8x.

Application

- Server
- Switch
- Storage
- RAID System

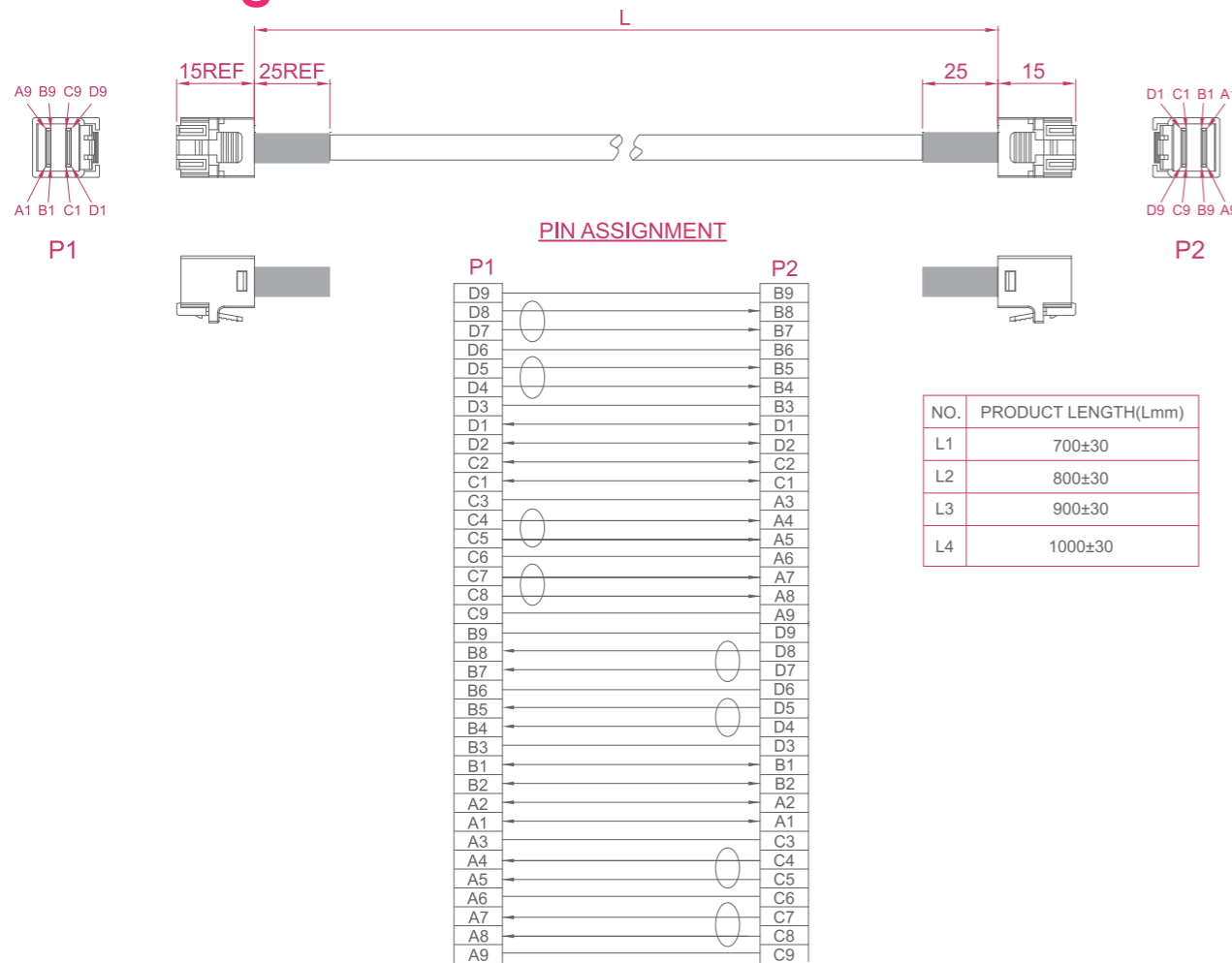
Product Characteristics

- Internal and external solution
- Same form factor for 6Gbps and 12Gbps
- Meet SAS 2.1 and 3.0
- Compatible with mini SAS

■ Mini-SAS HD 4i STR to 4i STR Cable





■ Drawing



■ Specification

Description		Mini-SAS HD 4i STR to 4i STR Cable
Part no.		C10C214B03E1M0
Material	Contact	15µin min hard Gold pated contact pads
	Connector housing	Thermoplastic UL94V-0
	Active latch	Stainless steel
	Raw Cable	Tinned copper conductor 30AWG
		Propylene polymers dielectric
Tinned copper drain wire		
	Polyester tape jacket	
Electrical Mechanical	Impedance	85Ω, optional 100Ω
	Data Rate	12Gbps per channel
	Rated Voltage	30V
	Rated Current	0.5A per pin
	Durability	50 mating cycles
	Mating force	150N maximum
	Un-Mating force	250N maximum
	Wrenching test	Max 10N for each axis direction
Environmental	Storage Temperature	-20° to 80°C
	Operating Temperature	0° to 80°C
	Flammability Rating	VW-1
	Safety Certificates	RoHS compliant

■ Mini-SAS HD Series

Product List	Description	Part no.
	Mini-SAS HD 4i STR to 4i R/A Cable	C10C214A02E54C
	Mini-SAS HD 8i STR to 4i STR Cable	C10C213B06E01



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