



CCP Contact Probes

High Speed Cable

History



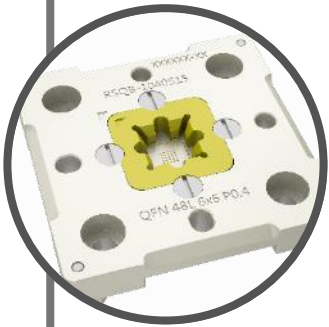
CCP Contact Probes



Selected Customers:



Product Portfolio



CCP - Testing Fine Pitch

IC Testing Probe
IC Probe Head
PCB Testing Probe



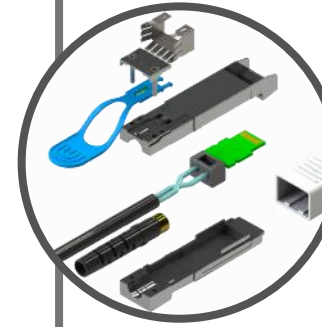
CCP - High Current 13A~250A

Electronic Vehicle
High Current Conn.



CCP - Connector 1A~13A

Pogo Pin Conn.
Waterproof Conn.
Magnetic Conn.

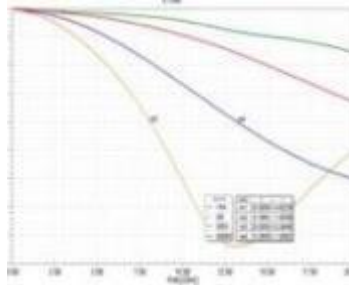


CCP – High Speed 25Gbps~100Gbps

Data Networking
Transceiver

Core Advantages

High Frequency Simulation



HFSS

Material Development

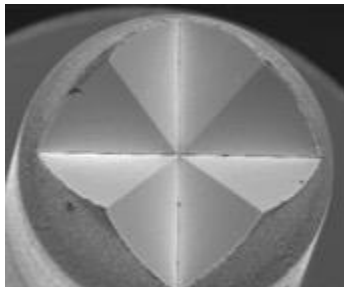


Plating Lab

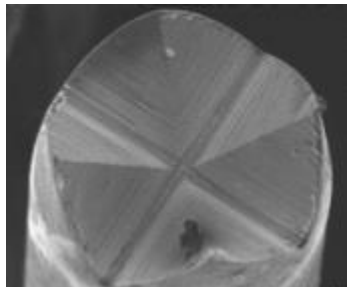


Self-owned
Plating Factory

Mirror Process

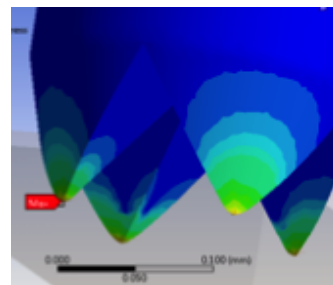


CCP's Product



Other Provider

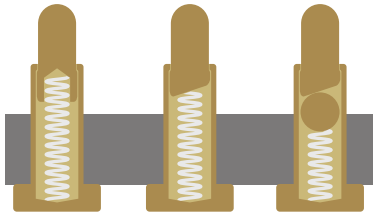
Finite Element Analysis



ANSYS

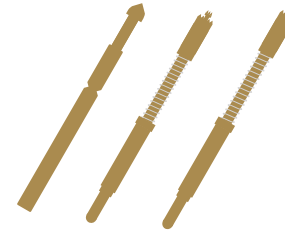
Manufacturing Capacity

Pogo Pin Connectors



60 Mio Pins / Month

Testing Probes



2 Mio Pins / Month



Verification Ability

Testing Items

Electrical

Contact Resistance
Insulation
HIPOT
Rated Current

Mechanical

Retention Force
Life Cycle
Vibration
Mechanical Shock

Other

Drop
Soldering Side Force
Solderability

Environmental

Waterproof
Humidity Test
Salt Spray
Thermal Impact
Resist. To Solder Heat
Vibration

Quality Management

Quality System

ISO 9001: 2015

Quality Management Systems

ISO 13485: 2016

Medical devices - Quality management systems

ISO 14001: 2015

Environmental Management System

IATF 16949: 2016

Automotive Quality Management System

QC 080000

Hazardous Substance Process Management

Quality Assurance

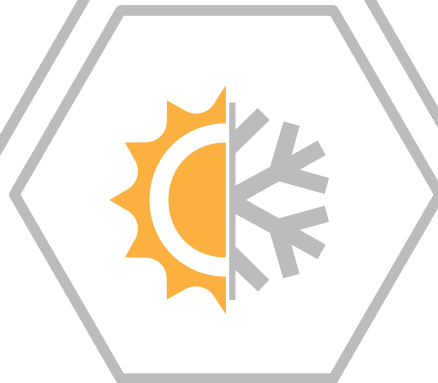


Testing Equipment

Rated Current
Max Rating : 1000Amp



Waterproof
Test Level: IPX7 Up

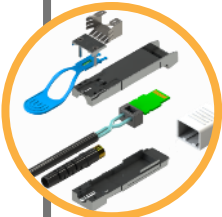
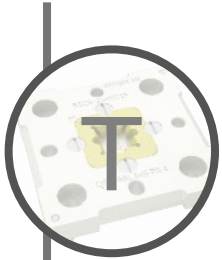


Thermal Impact
Range: -60~120°C
Resolution : 0.01 °C



Vibration
Frequency : 3500Hz max
Acceleration : 50G max

Product Line: High Speed Cable



Data Center Solutions



Telecommunications/Networking



High Speed Cable: External

Enterprise Networking

SFP



QSFP



QSFP to SFP



QSFP to SAS HD



Data Storage

MINISAS



MINISAS HD



MINISAS to HD



High Speed Cable: Internal

Data Storage

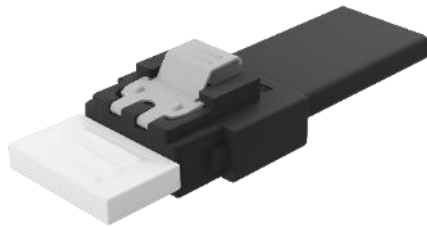
MINISAS



MINISAS HD



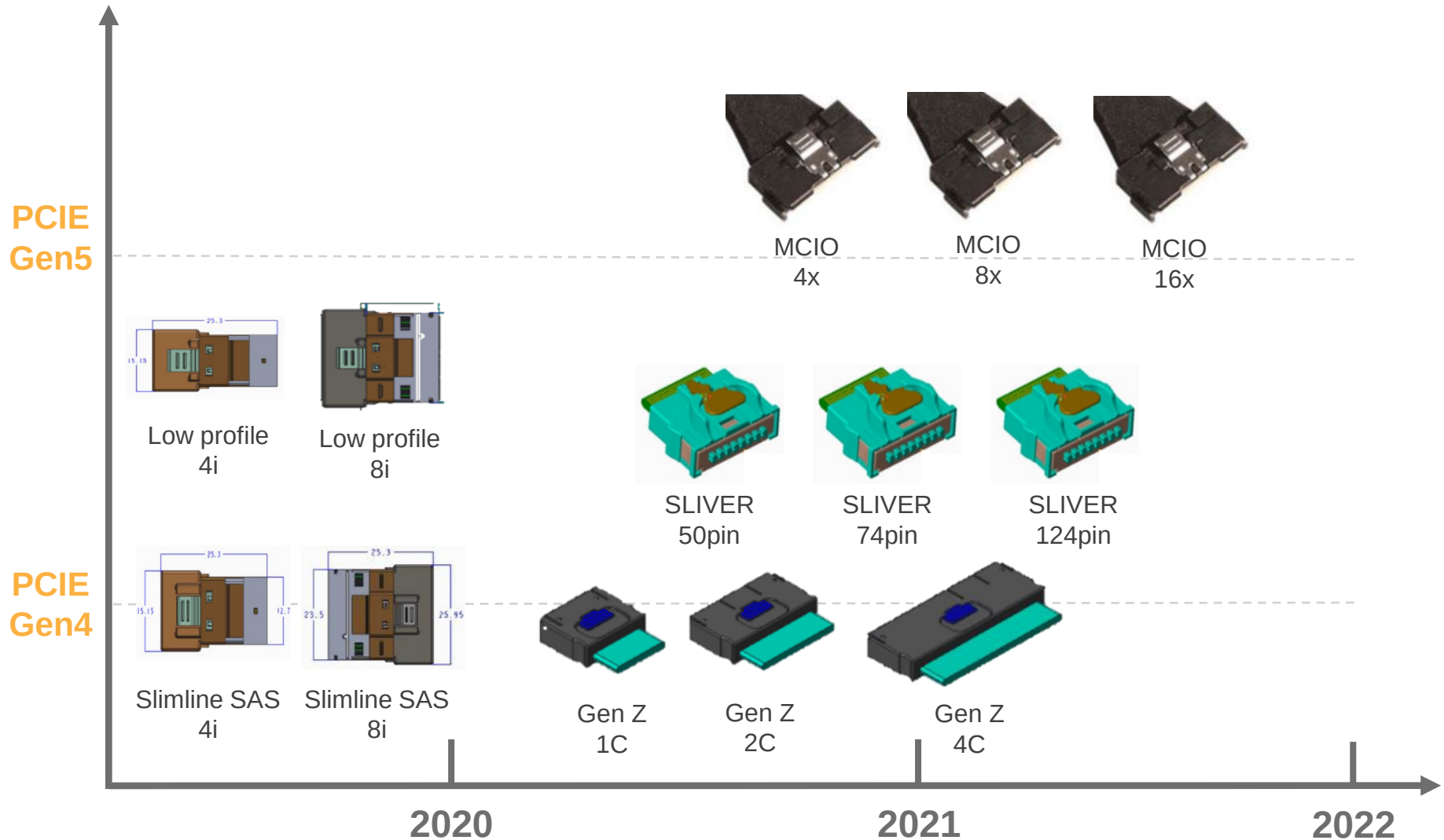
Slimline SAS



Oculink



High Speed Cable: Internal Cable



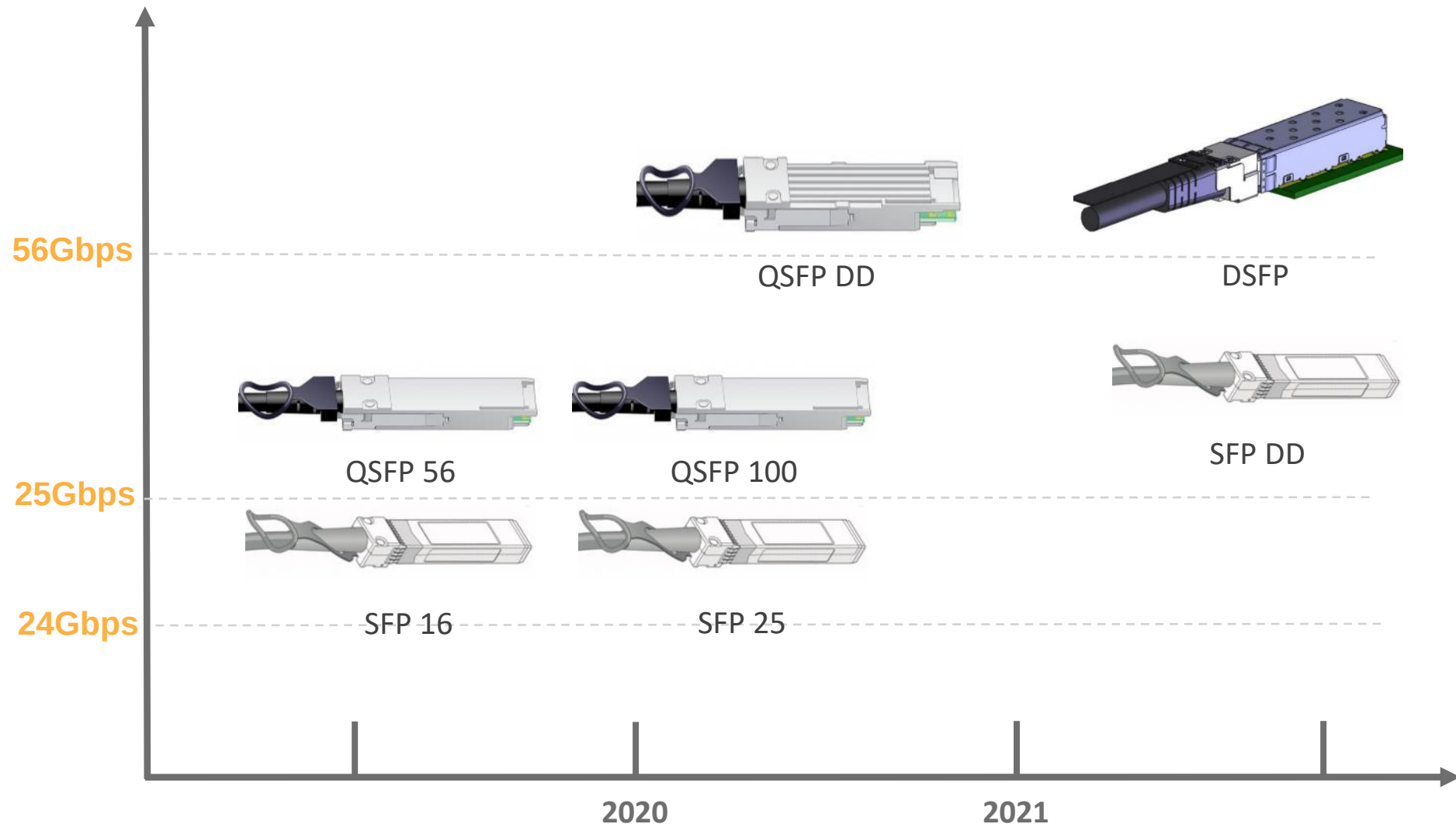
High Speed Cable: Internal Cable

Product	Electrical Spec	High Speed Channel	DIFF PAIR	Side Band	Type	Maximum Length
Gen z	PCIe Gen5	1C	18	YES	STR-STR	1 M
					RAD-RAD	1 M
		2C	26		STR-STR	1 M
					RAD-RAD	1 M
		4C	44		STR-STR	1 M
					RAD-RAD	1 M
		4C+	52		STR-STR	1 M
					RAD-RAD	1 M

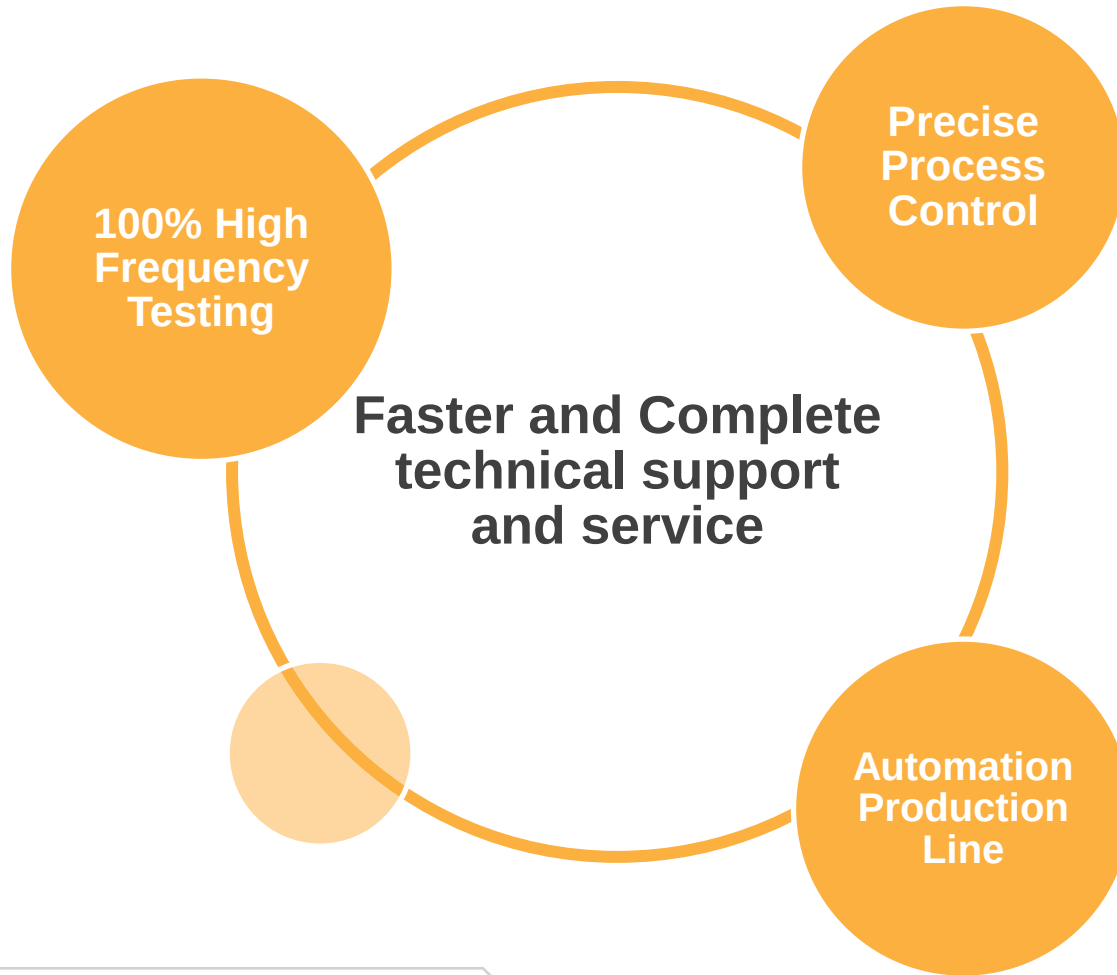
High Speed Cable: Internal Cable

Product	Electrical Spec	High Speed Channel	Side Band	Type	Maximum Length
MCIO	PCIe Gen5	4X	YES	STR-STR	1 M
				RAD-RAD	1 M
		8X		STR-STR	1 M
				RAD-RAD	1 M
		16X		STR-STR	1 M
				RAD-RAD	1 M

High Speed Cable: Internal Cable



Our Advantages



R & D Capability



- Ansoft HFSS
3D simulation



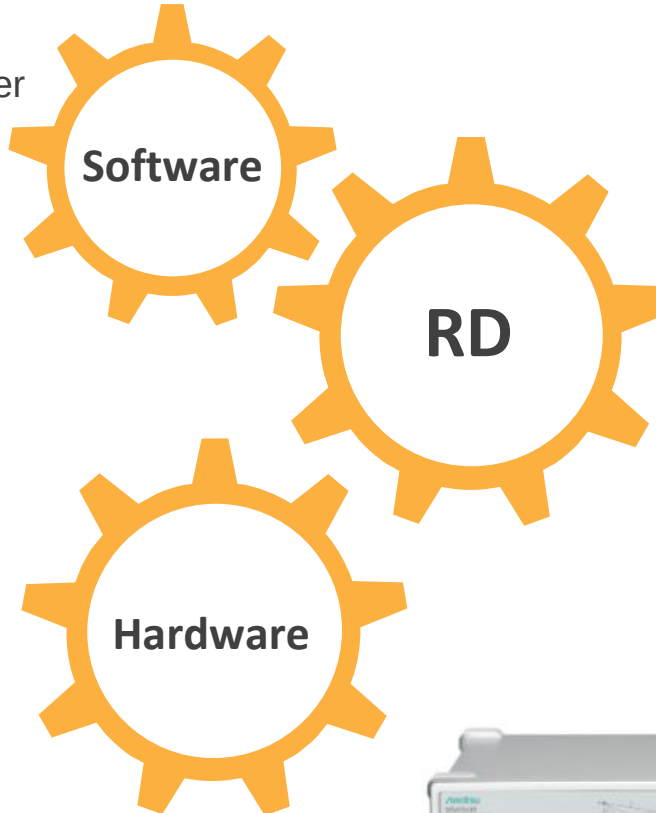
- Ansoft Designer
Fully system Link



- Ansoft Q3D
2.5D simulation

Altium

- Altium
PCB layout tool



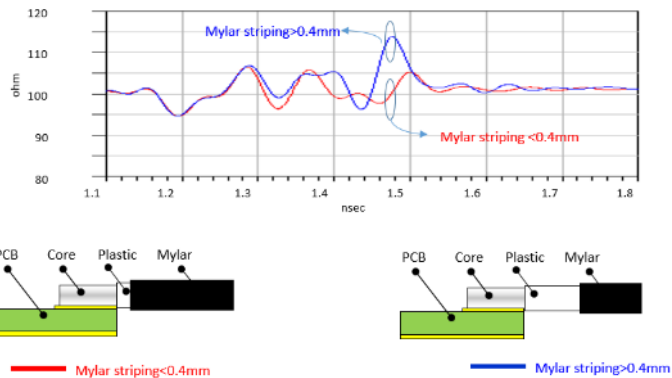
- SI(Signal Integrity Engineer)
Over 7 years experience have 3 peoples
Over 3 years experience have 2 peoples
- SE (Software Engineer)
2 peoples
- EE(Electrical Engineer)
2 peoples

- MS46524B VNA
Frequency : 300KHz-20GHz
- MS46524B TDR Option
Rise time : 22.3ps
- Switch Matrix
300KHz-18GHz(phase match>0.5ps)

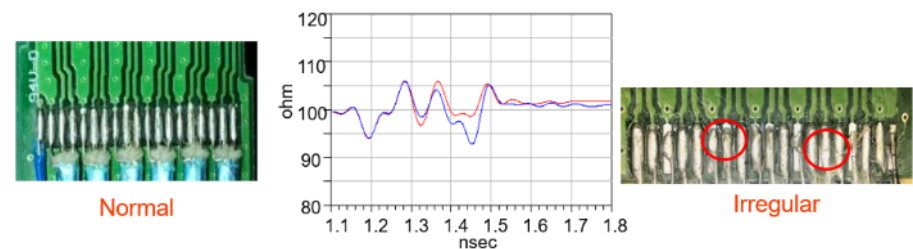


Precise Process Control

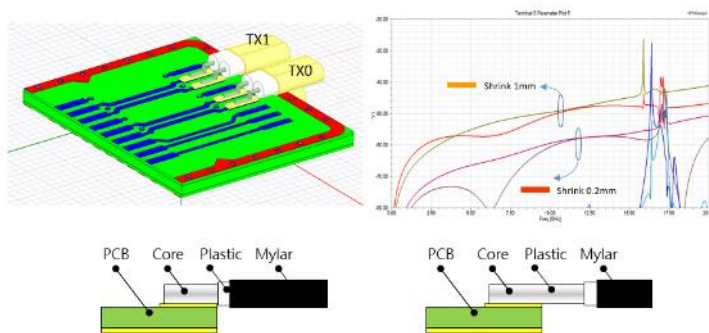
Stripping control



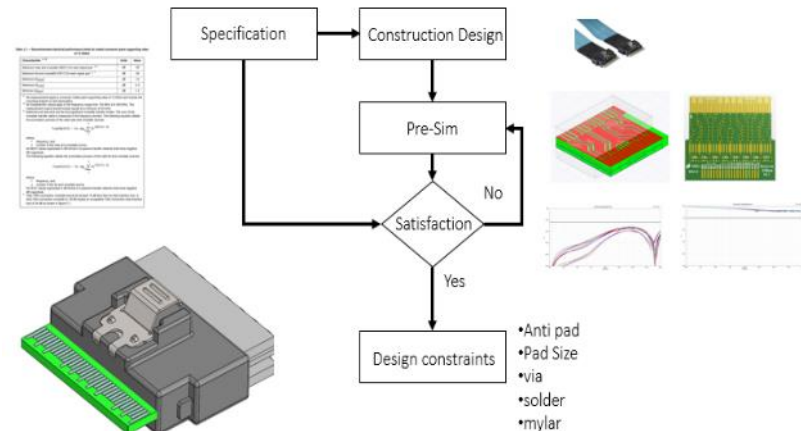
Soldering control



Laser Stripping Control



Design flow chart

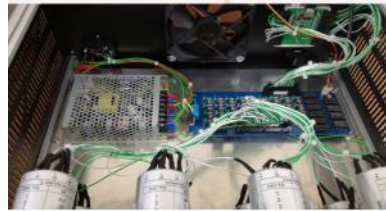


100% High Frequency Testing

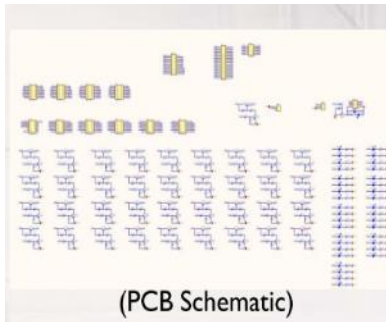
Environment



(Test Environment)



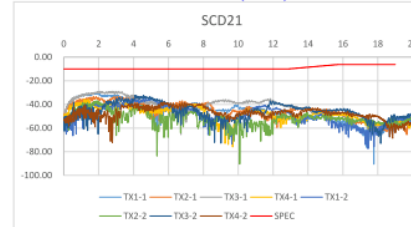
(Construction)



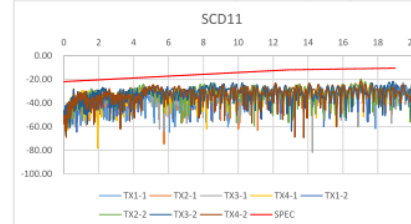
(PCB Schematic)

Testing Report

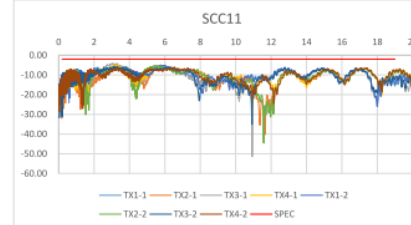
Differential to common-mode conversion loss(SCD21):



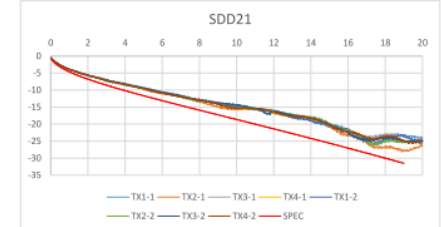
Differential to common-mode cable assembly return loss(SCD11):



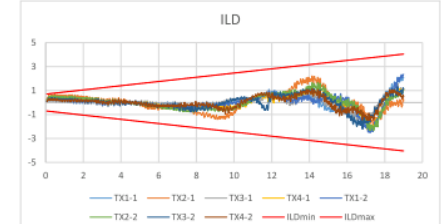
Common-mode to common-mode return loss(SCC11):



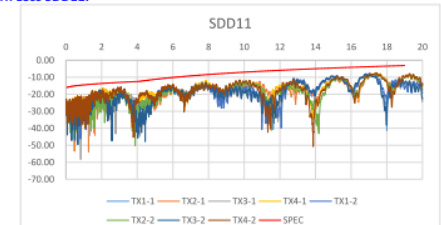
Insertion Loss SDD21:



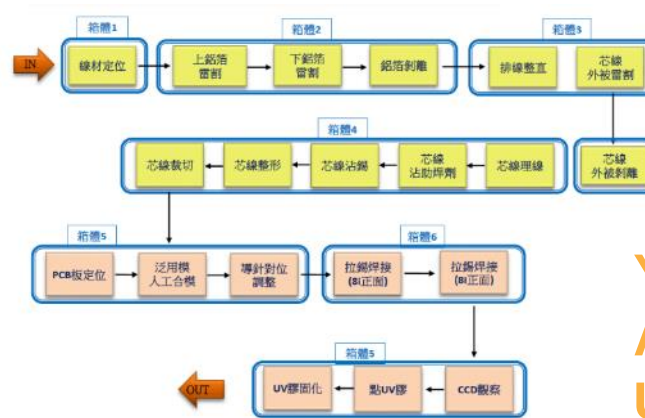
ILD:



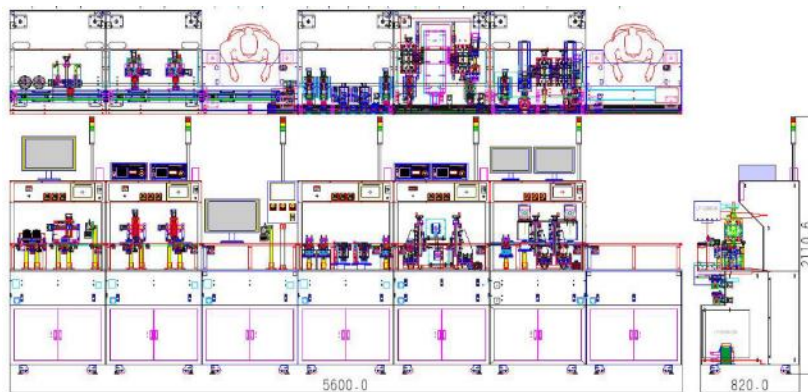
Return Loss SDD11:



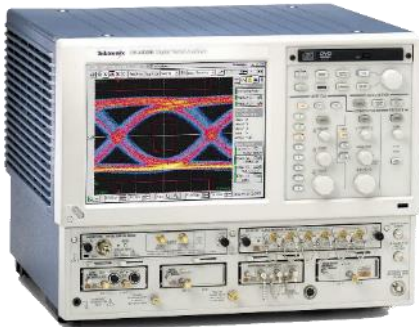
Automation Production Line



Yield: 95 %
Activation: 95%
UPH: 240 pcs



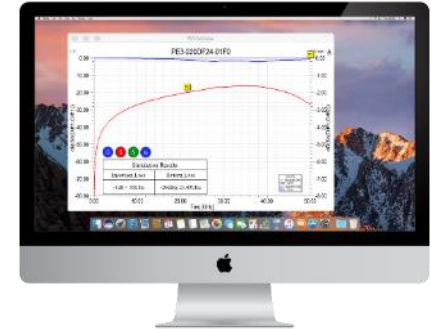
Testing Equipment



Digital Oscilloscope



Vector Network Analyzer



HFSS Analysis Program



Thermal Shock Tester

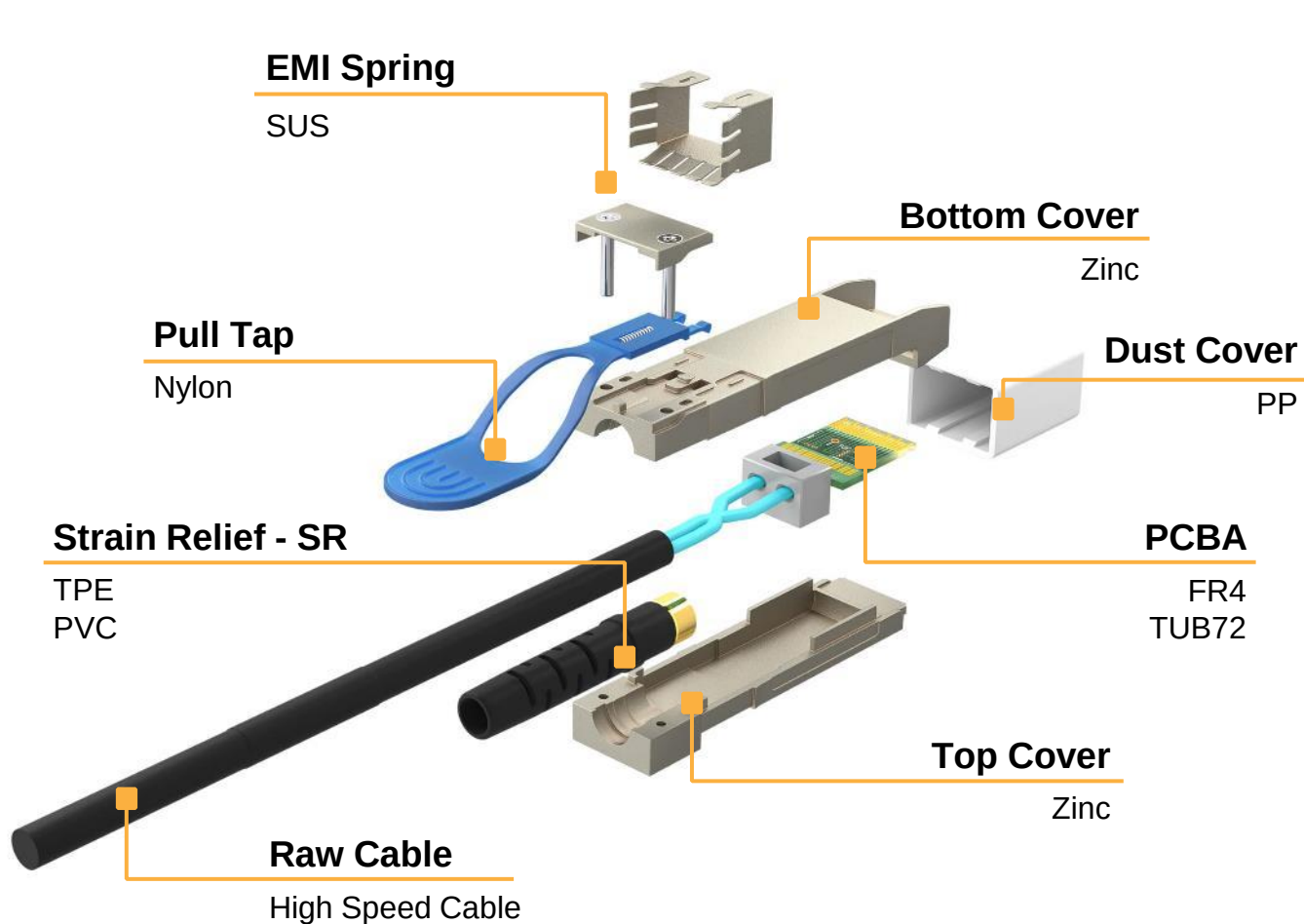


Salt Spray Tester



Electron Microscope

High Speed Cable - SFP 25Gbps



PN

Length and AWG

S25-005-A-011

- 0.5 meter 30#

S25-010-A-011

- 1 meter 30#

S25-020-A-011

- 2 meter 30#

S25-030-A-011

- 3 meter 30#

S25-010-A-012

- 1 meter 28#

S25-020-A-012

- 2 meter 28#

S25-030-A-012

- 3 meter 28#

S25-040-A-012

- 4 meter 28#

S25-030-A-013

- 3 meter 26#

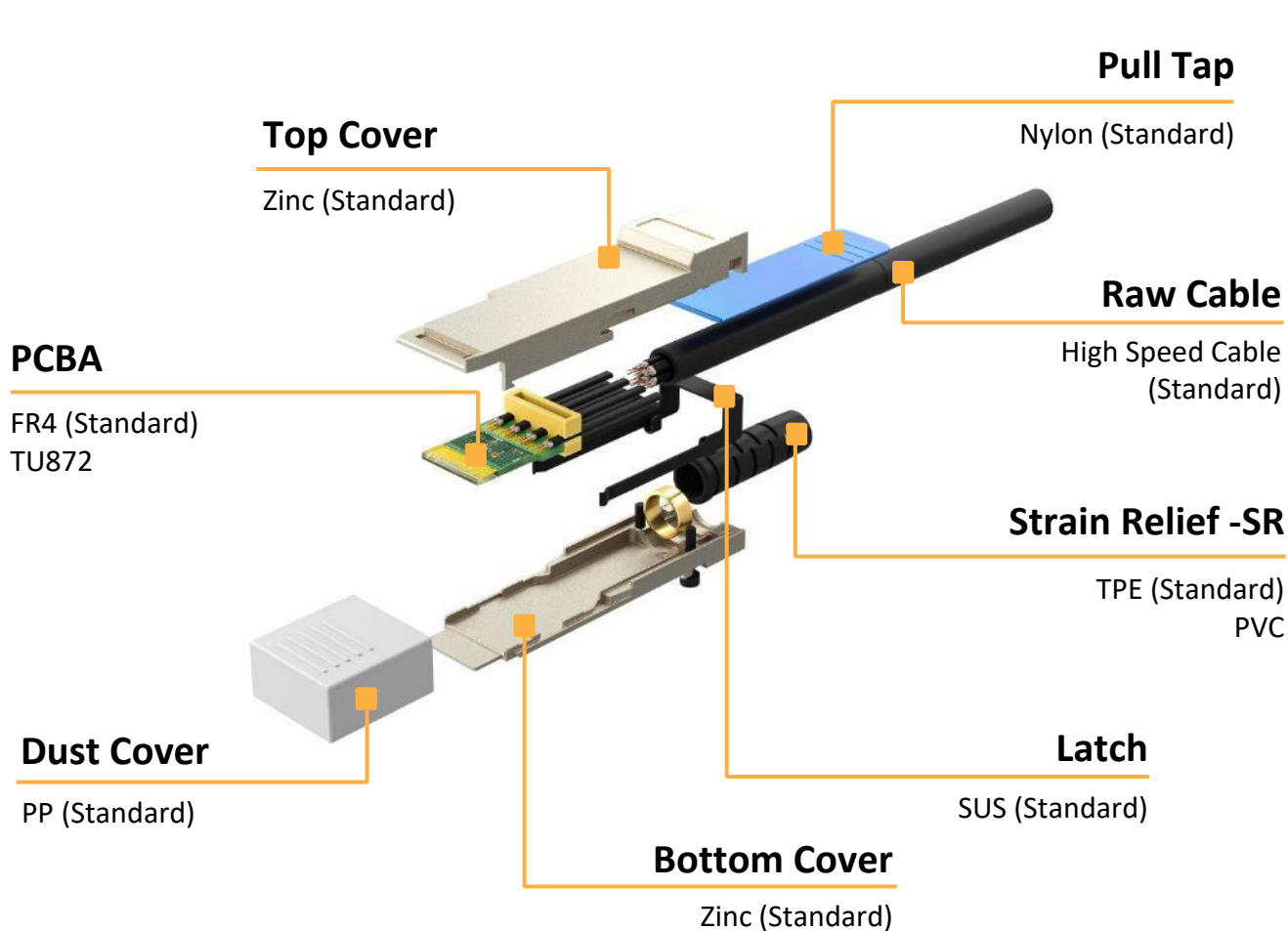
S25-040-A-013

- 4 meter 26#

S25-050-A-013

- 5 meter 26#

High Speed Cable - QSF 25Gbps



PN

Length and AWG

Q25-005-A-011

- 0.5 meter 30#

Q25-010-A-011

- 1 meter 30#

Q25-020-A-011

- 2 meter 30#

Q25-030-A-011

- 3 meter 30#

Q25-010-A-012

- 1 meter 28#

Q25-020-A-012

- 2 meter 28#

Q25-030-A-012

- 3 meter 28#

Q25-040-A-012

- 4 meter 28#

Q25-030-A-013

- 3 meter 26#

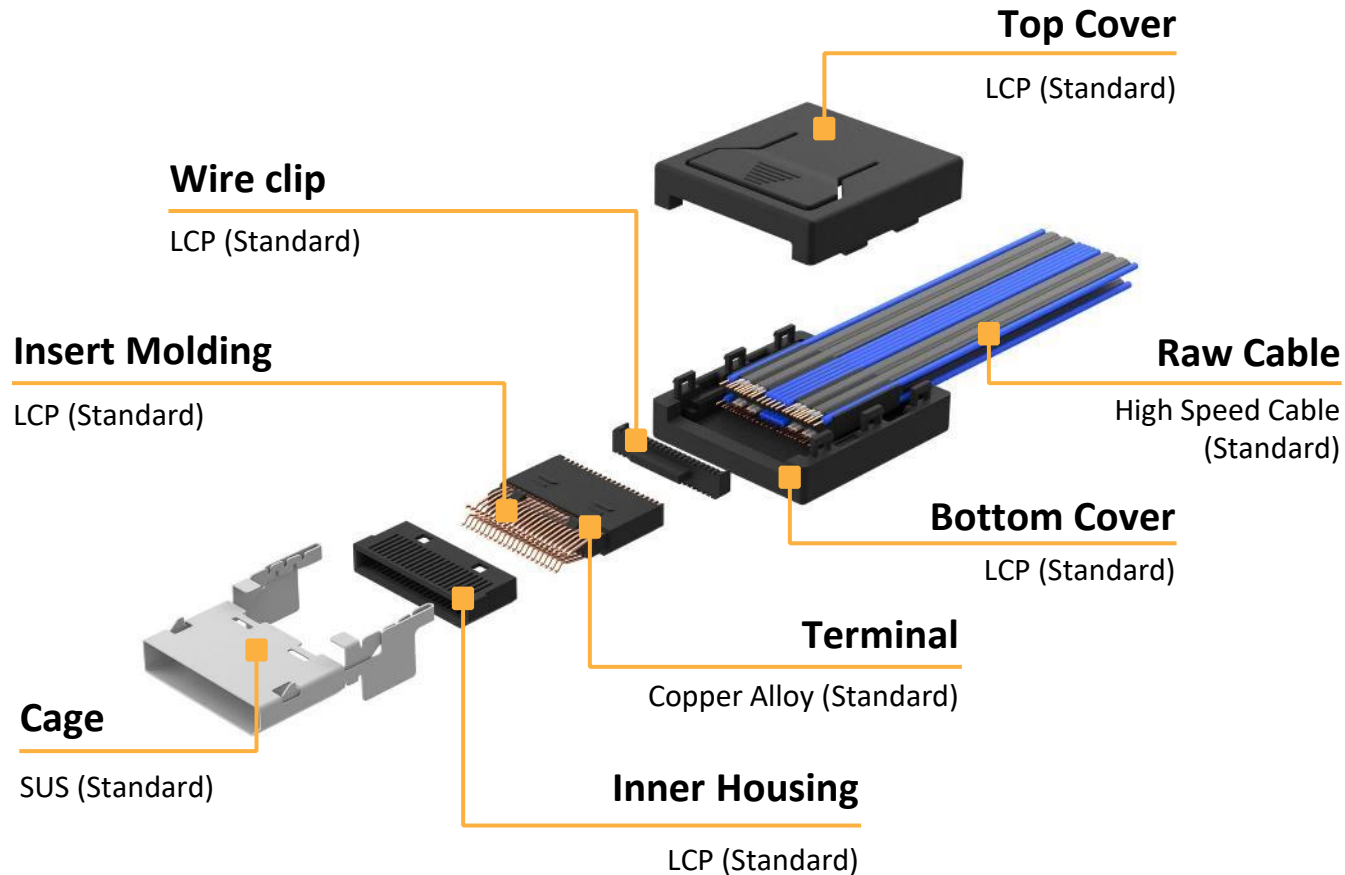
Q25-040-A-013

- 4 meter 26#

Q25-050-A-013

- 5 meter 26#

High Speed Cable - Oculink 1.0



PN

Length and AWG

O16-005-A-015

- 0.5 meter 32#

O16-006-A-015

- 0.6 meter 32#

O16-007-A-015

- 0.7 meter 32#

O16-005-A-011

- 0.5 meter 30#

O16-006-A-011

- 0.6 meter 30#

O16-007-A-011

- 0.7 meter 30#

O16-008-A-011

- 0.8 meter 30#

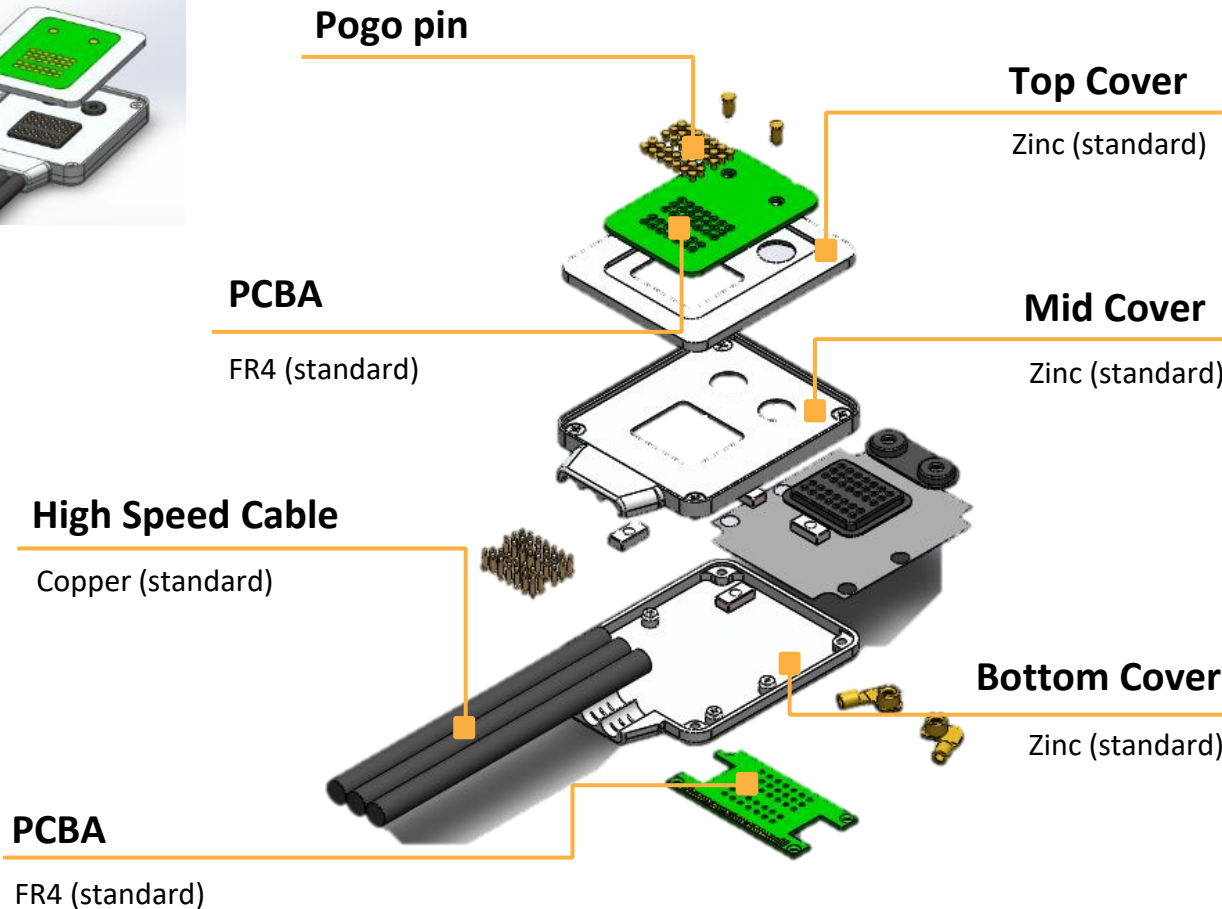
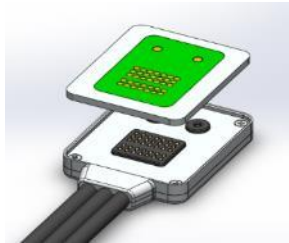
O16-009-A-011

- 0.9 meter 30#

O16-010-A-011

- 1.0 meter 30#

High Speed Cable – Customized 8K HDMI



PN

Length and AWG

HD48-005-A-011

- 0.5 meter 30#

HD48-006-A-011

- 0.6 meter 30#

HD48-007-A-011

- 0.7 meter 30#

HD48-008-A-011

- 0.8 meter 30#

HD48-009-A-011

- 0.9 meter 30#

HD48-010-A-011

- 1.0 meter 30#

HD48-011-A-011

- 1.1 meter 30#

HD48-015-A-011

- 1.5 meter 30#

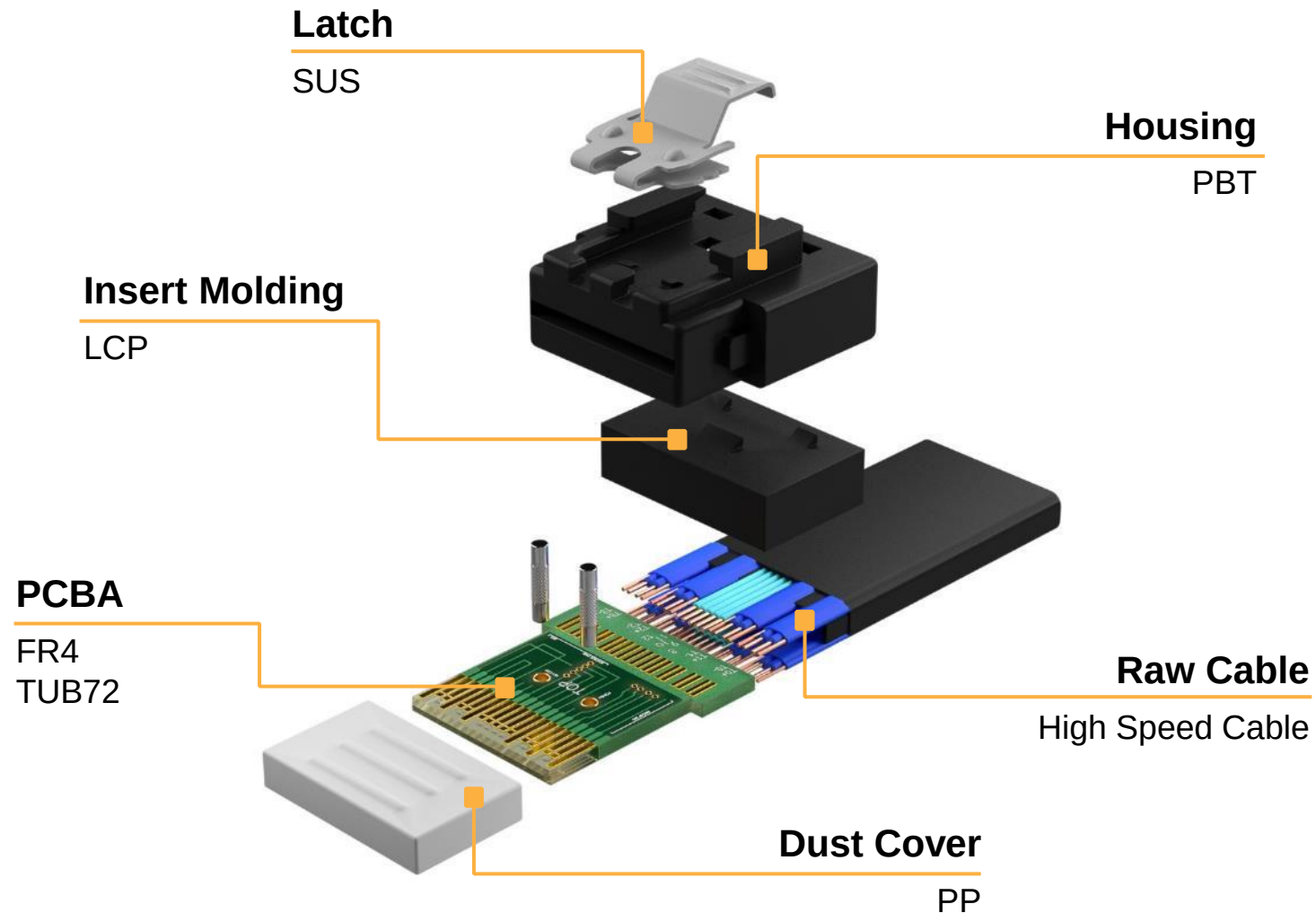
HD48-016-A-011

- 1.6 meter 30#

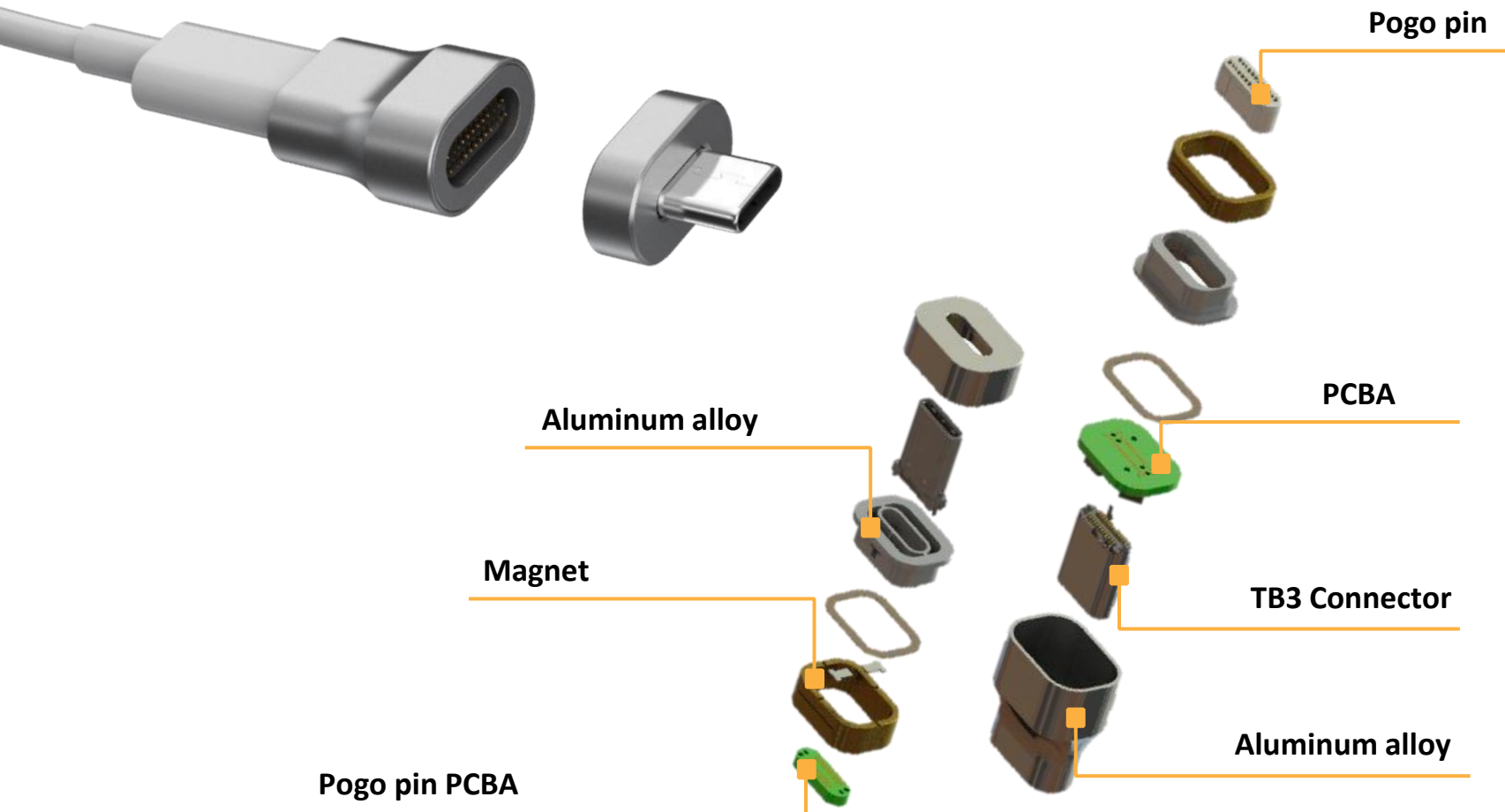
HD48-020-A-011

- 2.0 meter 30#

High Speed Cable – Slimline SAS 24Gbps

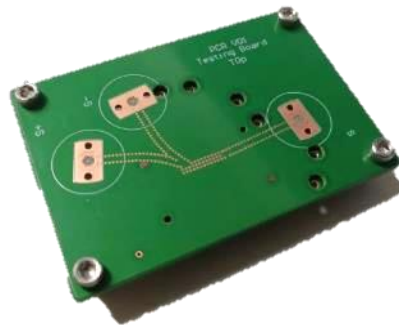
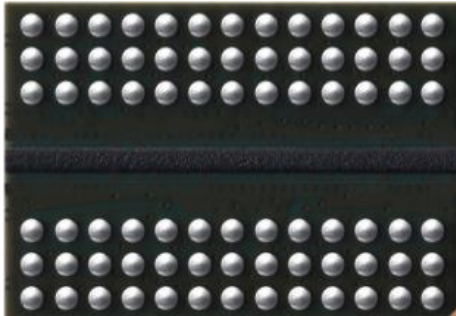


Thunderbolt 4 Magnetic Adapter

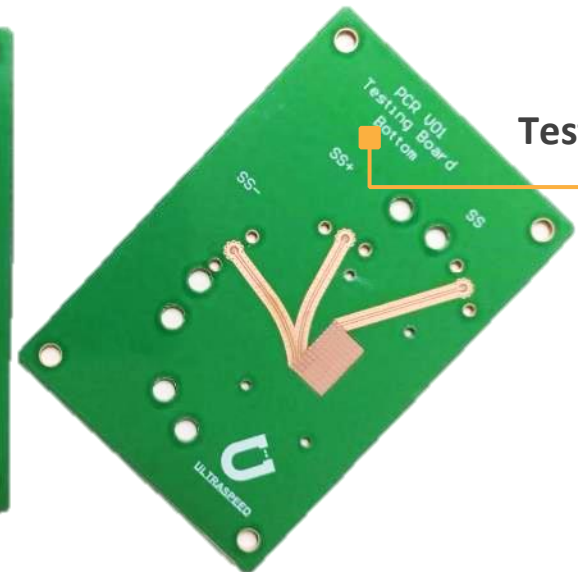
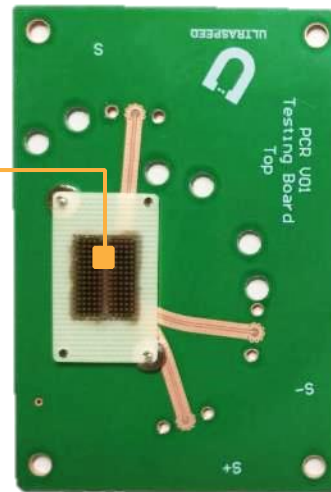


High Speed Module: Customization (PCR Test Fixture)

DDR4 IC

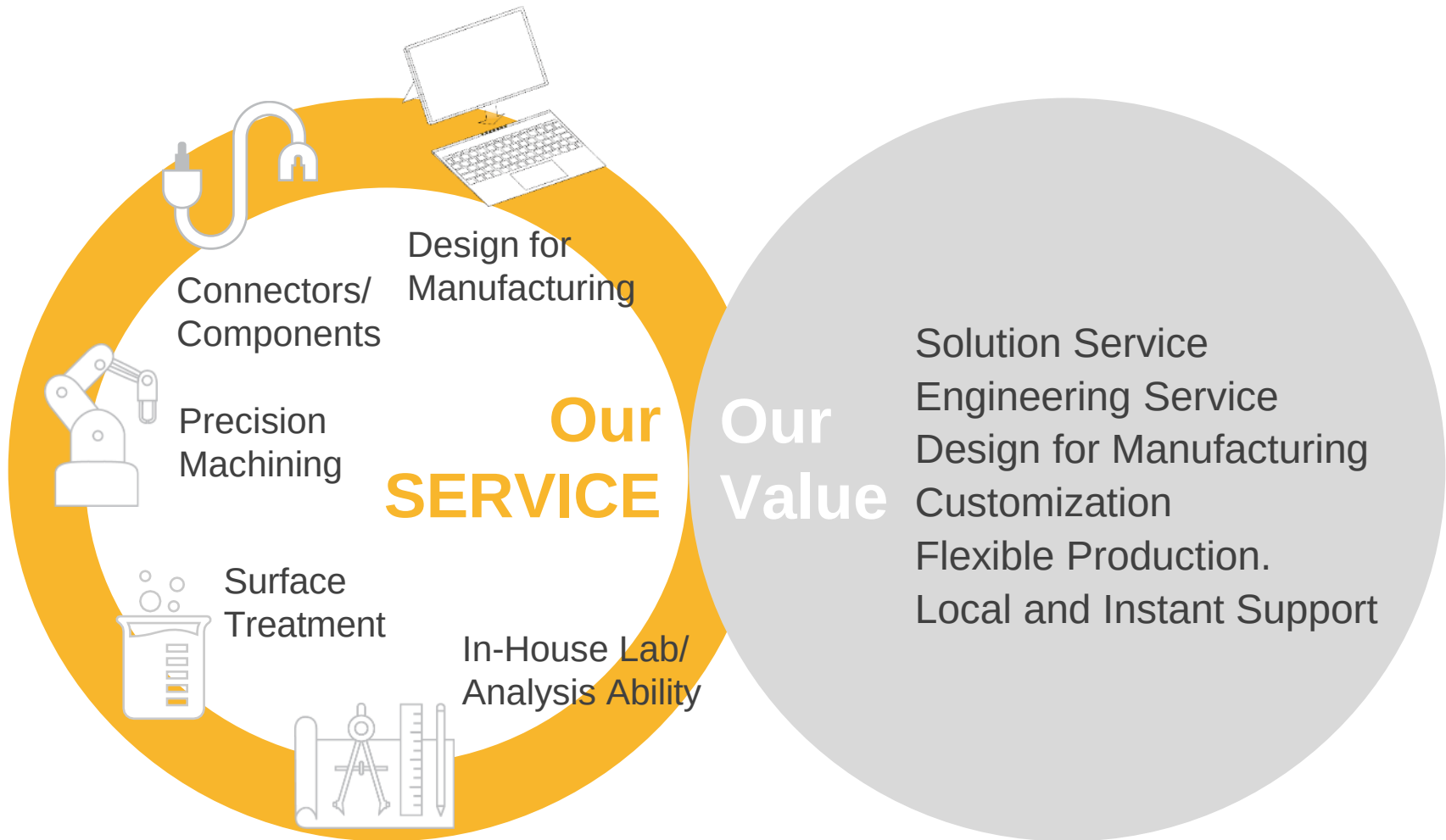


PCR

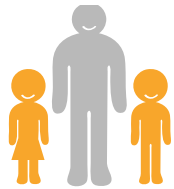


Test Fixture

Create Value for Customers



Social Responsibility



Summer camp for employees' children.



Home visit to employees around the world.



CCP offers tuition scholarship for employees' children.



Q&A

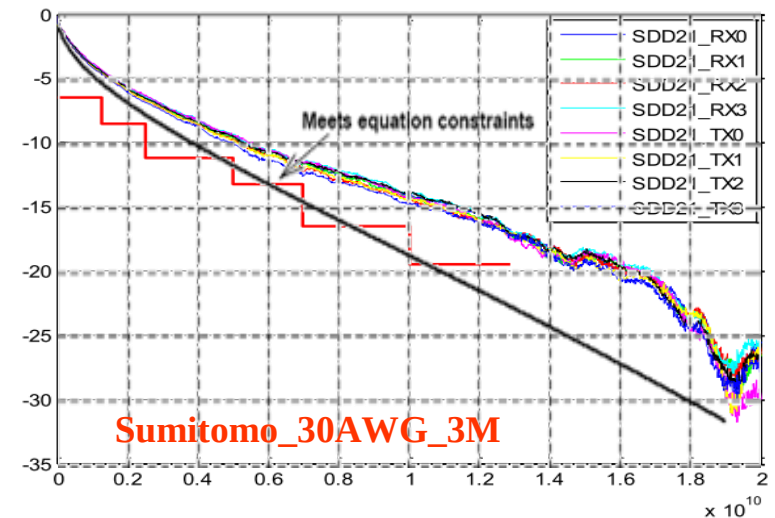
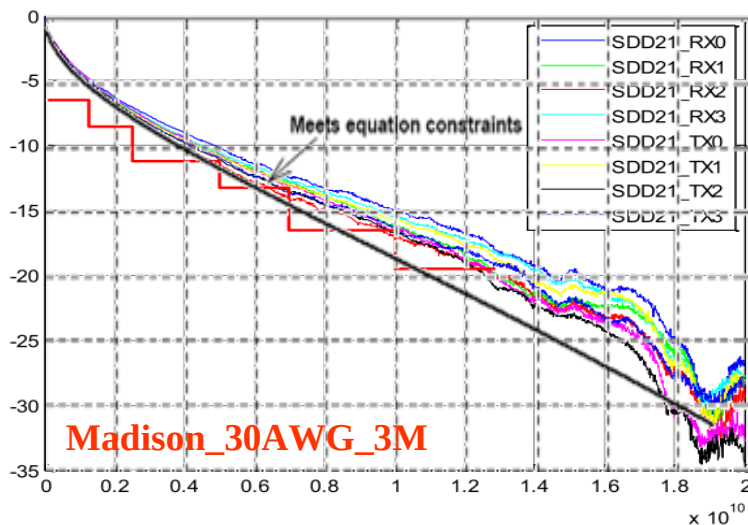
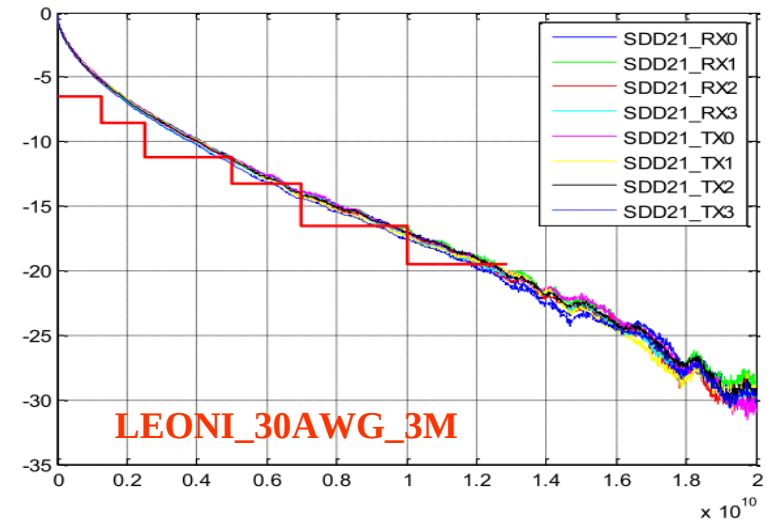
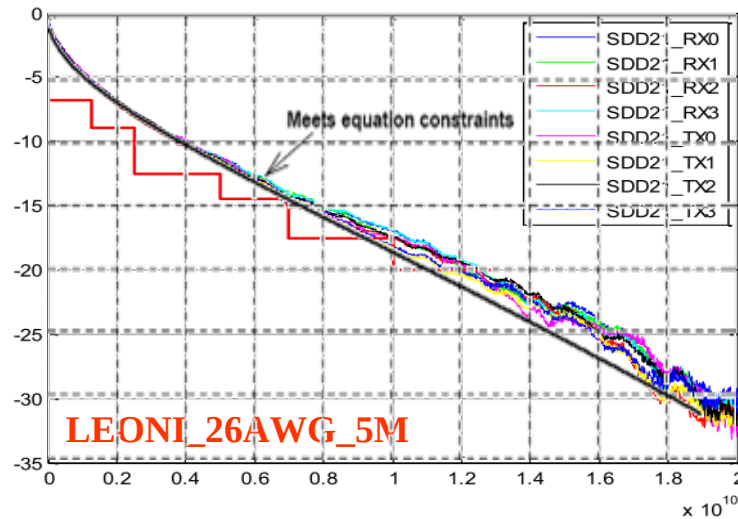
Certificate



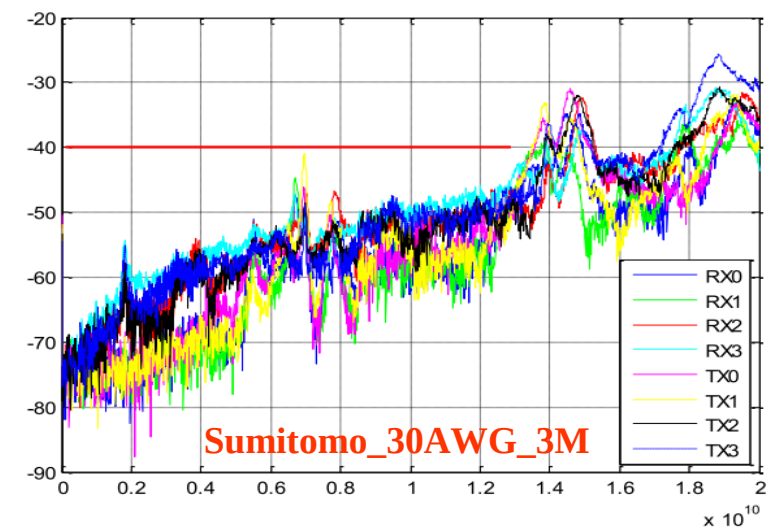
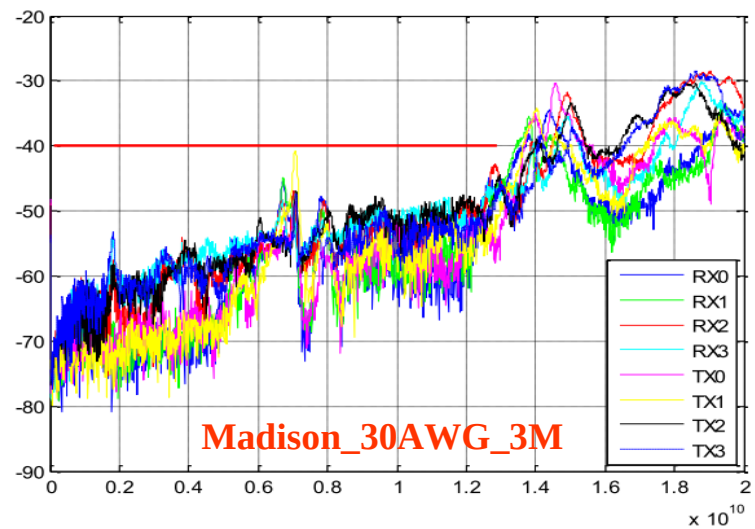
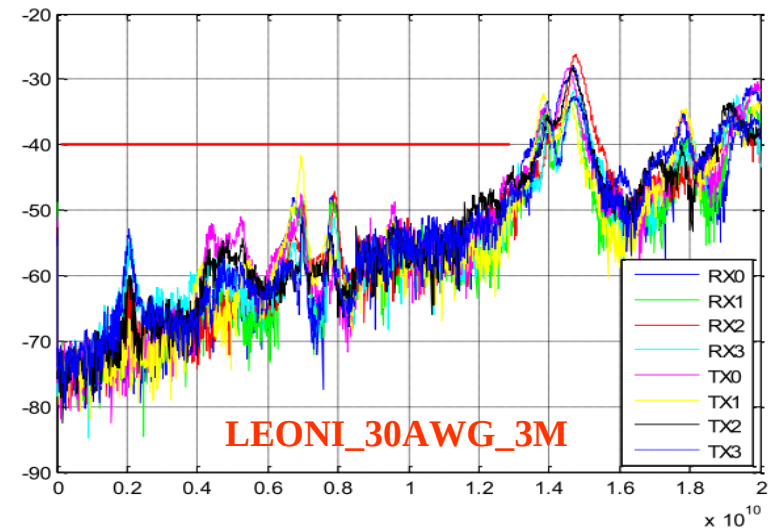
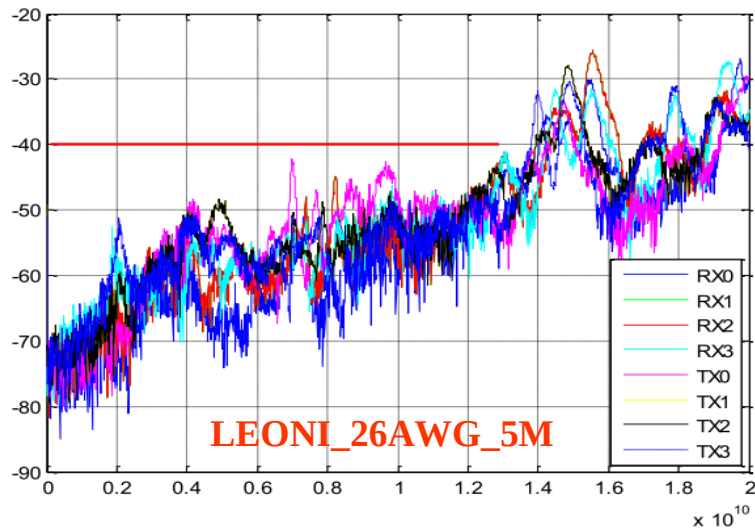
ISO 9001
ISO 13485
ISO 14001
ISO 14064
IATF 16949
IECQ QC080000



Appendix



Appendix



The Traffic loss testing for 400Gbps DAC cable using Spirent Test Center .

[illegible]

