Simula

CORE VALUES & PRODUCT SOLUTIONS

June 2019

B.C.E. ELECTRONICS
Importation & Distribution Electronic Components

B.C.E. s.r.l.
Via Regina Pacis, 54/c - 41049 SASSUOLO (MO) Italy
Tel. +39 0536 811.616 r.a. - Fax +39 0536 811.500
www.bce.it - E-mail: bce@bce.it

SYSTEM CERTIFICATION ISO 9001 SGS

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Cable Assembly Competitiveness

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3.2 Automotive Solutions

3.3 Consumer Solutions

3.4 Medical and Wearable Device Solutions

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1.0

SIMULA TECHNOLOGY

- 8 Facts About Simula
- Global Support
- Quality Systems
- Solution Overview
- General Overview: Product Solutions

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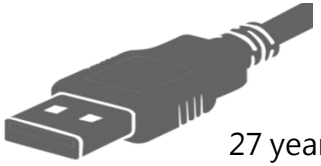
8 Facts About Simula



27 years
experience

IPO in Taiwan (2009)

High speed
development

On site sales
and FAE

Established 1990

Global logistic

development
team list

Integrated
solution provider

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Global Support

Simula

Europe Location
Munich, Germany

Italy Location
B.C.E. S.r.l., Sassuolo (MO)

USA Office
Fremont, California

Shenzhen Facility

Taiwan Headquarters

- Manufacturing
- Research & Development
  (FAE service for ESI support)
- Sales

Quality Systems

- ISO 9001 : 2015
- IATF16949 : 2016
- IECQ QC080000 : 2012
- ISO13485 : 2003
- ISO14001 : 2015
- OHSAS18001 : 2007

Certificat
Certificate
N° 2014/60959.4
SIMULA TECHNOLOGY (SHENZHEN) CO., LTD.
藏统科技（深圳）有限公司
Unified Social Credit Code / Code Crédit Social Unifié / 统一社会信用代码 : 91440300051529051L
DESIGN AND MANUFACTURING OF CONNECTORS FOR ELECTRONIC APPLIANCES AND ASSEMBLY OF CABLES FOR SINGLE TRANSMISSION.
用于电子产品连接器的设计与制造，用于信号传输的电线电缆的装配
ISO 9001 : 2015
BUILDING A/B, NO.1, LAOTAIKENG INDUSTRIAL PARK, BAOLONG 6TH RD., TONGLE COMMUNITY, LONGGANG TOWN, LONGGANG DISTRICT, SHENZHEN CITY, GUANGDONG PROVINCE, P.R.CHINA
2018-07-03
2021-07-02
Franck LEBEUGLE
Managing Director of AFNOR Certification
Directeur Général d'AFNOR Certification

Certificat
Certificate
N°60565
N° IATF : 0315028
SIMULA TECHNOLOGY (SHENZHEN) CO., LTD.
藏统科技（深圳）有限公司
DESIGN AND MANUFACTURING OF CONNECTORS AND ASSEMBLY OF CABLES FOR SINGLE TRANSMISSION.
连接器的设计与制造，用于信号传输的电线电缆的装配
IATF 16949 : 2016
BUILDING A/B, NO.1, LAOTAIKENG INDUSTRIAL PARK, BAOLONG 6TH RD., TONGLE COMMUNITY, LONGGANG TOWN, LONGGANG DISTRICT, SHENZHEN CITY, GUANGDONG PROVINCE, P.R.CHINA
2018-07-03
2021-07-02
Franck LEBEUGLE
Directeur Général d'AFNOR Certification
Managing Director of AFNOR Certification

IEC QUALITY ASSESSMENT SYSTEM (IECQ)
covering Electronic Components, Assemblies, Related Materials and Processes
IECQ Certificate of Conformity
Hazardous Substance Process Management
IECQ Certificate No.: IECQ-H NQA/GB 18.0036
Issue No.: 1
Status: Current
Issue Date: 2016/04/18
Org Issue: 2016/04/18
Expiration: 2019/09/14
Applicable to:
- European Directive 2011/65/EU ("RoHS – Restriction of the use Of certain Hazardous Substances") in electrical and electronic equipment, including all published amendments
- European Directive 2015/863/EU (amending Annex II to EU RoHS 2 (Directive 2011/65/EU) to Restrict 4 New Phthalates: DEHP, BBP, DBP and DBP
- IEC 61249-2-21

SIMULA TECHNOLOGY (SHENZHEN) CO., LTD.
Building A/B, No.1, Laotaikeng Industrial Park,
Baolong 6th Road, Tongle Community, Longgang Town,
Longgang District, Shenzhen City, Guangdong Province,
China
The organization has developed and implemented Hazardous Substance Process Management procedures and related processes which have been assessed and found to comply with the applicable requirements for IECQ HSPM organization approval which is in accordance with the Basic Rules IECQ 01 and Rules of Procedure IECQ 03-3 "IECQ Hazardous Substances Process Management" of the IEC Quality Assessment System for Electronic Components (IECQ), and with respect to the IECQ Specification:
- IECQ QC 080000:2012 - Hazardous Substance Process Management System Requirements

This Certificate is applicable to all electronic components, assemblies, related materials and processes for the following scope of activities:
Design and manufacturing of connectors for electronic appliances and assembly of cables for signal transmission
Issued by the Certification Body: NQA
Warwick House, Houghton Hall Park,
Houghton Regis, Dunstable,
Bedfordshire, LU5 5ZX
United Kingdom
Authorized person:
Matthew Gantley

Certificate
Certificat
Certificate of Registration
GHEN15054-00
SIMULA TECHNOLOGY (SHENZHEN) CO., LTD.
(05152905-1)
Scope : Design and manufacture of Connectors for medical communication appliances
Registered Address : Building A/B, No.1, Laotaikeng Industrial Park, Baolong 6th Rd., Tongle Community, Longgang Town, Longgang District, Shenzhen City, Guangdong Province, P.R.China
Audit Address : Building A/B, No.1, Laotaikeng Industrial Park, Baolong 6th Rd., Tongle Community, Longgang Town, Longgang District, Shenzhen City, Guangdong Province, P.R.China
AFNOR ASIA certifies that all the arrangements covering the above mentioned activities and locations are established to meet the requirements of the international standard
ISO 13485 : 2003
ORIGINAL DATE OF CERTIFICATION: 27-FEB-2016
DATE OF ISSUE: 27-FEB-2016
DATE OF EXPIRY: 26-FEB-2019
APPROVED BY
Trevor Wilmer
Director for Certification
ON BEHALF OF
AFNOR ASIA

Certificate
Certificat
Certificate of Registration
GTE14015-01
SIMULA TECHNOLOGY (SHENZHEN) CO., LTD.
(91440300051529051L)
Scope : DESIGN AND MANUFACTURING OF CONNECTORS FOR ELECTRONIC APPLIANCES AND ASSEMBLY OF CABLES FOR SIGNAL TRANSMISSION
Registered Address : Building A/B, No.1, Laotaikeng Industrial Park, Baolong 6th Rd., Tongle Community, Longgang Town, Longgang District, Shenzhen City, Guangdong Province, P.R.China
Audit Address : Building A/B, No.1, Laotaikeng Industrial Park, Baolong 6th Rd., Tongle Community, Longgang Town, Longgang District, Shenzhen City, Guangdong Province, P.R.China
AFNOR ASIA certifies that all the arrangements covering the above mentioned activities and locations are established to meet the requirements of the international standard
ISO 14001 : 2015
ORIGINAL DATE OF CERTIFICATION: 24-JUL-2014
DATE OF ISSUE: 24-JUL-2017
DATE OF EXPIRY: 23-JUL-2020
APPROVED BY
Trevor Wilmer
Director for Certification
ON BEHALF OF
AFNOR ASIA

Certificate
Certificat
Certificate of Registration
GTO14015-01
SIMULA TECHNOLOGY (SHENZHEN) CO., LTD.
(91440300051529051L)
Scope : DESIGN AND MANUFACTURING OF CONNECTORS FOR ELECTRONIC APPLIANCES AND ASSEMBLY OF CABLES FOR SIGNAL TRANSMISSION
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AFNOR ASIA certifies that all the arrangements covering the above mentioned activities and locations are established to meet the requirements of the international standard
Occupational Health and Safety Management Systems
(OHSAS 18001 : 2007)
ORIGINAL DATE OF CERTIFICATION: 24-JUL-2014
DATE OF ISSUE: 24-JUL-2017
DATE OF EXPIRY: 23-JUL-2020
APPROVED BY
Trevor Wilmer
Director for Certification
ON BEHALF OF
AFNOR ASIA

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Solution Overview

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Certificate
- ISO9000/14000/13485
- TS16949
- OHSAS18001

www.simulatechnology.com

General Overview: Product Solutions

Simula

- Industrial & Outdoor Solutions
- Automotive Solutions
- Consumer Product Solutions
- Medical & Wearable Device Solutions
- Others & Turn-Key Solutions

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2.0

SOLUTION PROVIDER

- Core Competencies
- One-stop Shop
- Engineering
- Vertical Integrated Manufacturer
- Tooling Competitiveness
- Cable Assembly Competitiveness

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Core Competencies

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Design Integration

Manufacturing Integration

Engineering Integration

Application Integration

One-stop Shop

Design

- Customized Solutions
- Codevelop with customers

Simulation

- Mechanics Analysis
- High Frequency Analysis
- Mold Flow Analysis
- Product Analysis
- Magnet Force Analysis

Tool shop

- In house: Vertically integrated
- Precision tool design and process

Manufacturing

- In house
- Vertically integrated
- Manual, semi-automatic, fully automatic, module automation

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Engineering

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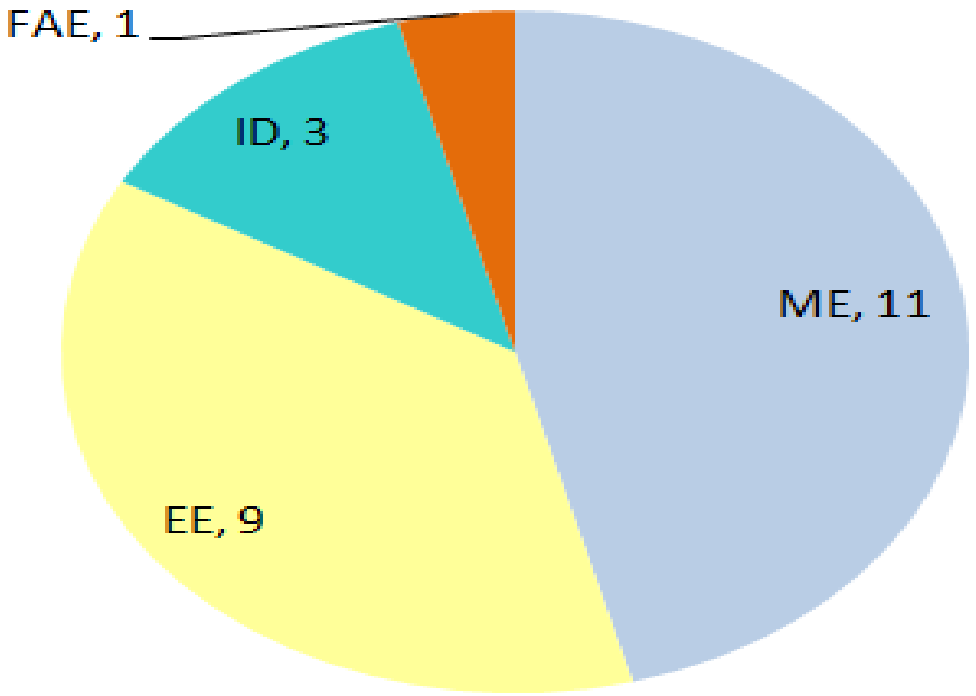
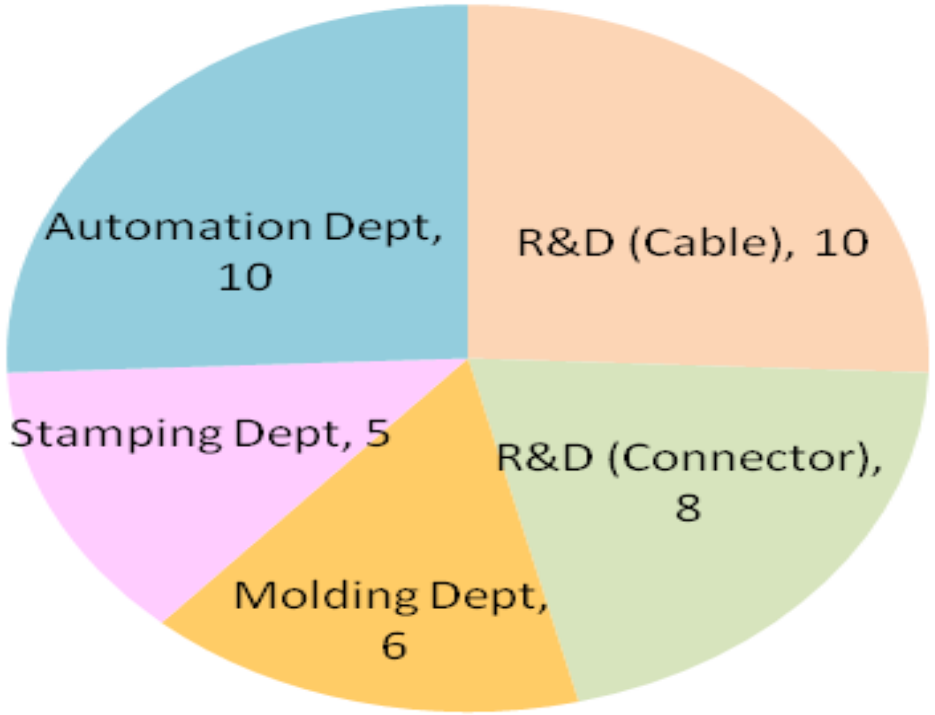
Taipei R&D team
(Number of people)



Shenzhen R&D team
(Number of people)



- 65+ R&D and 3 FAE for the Worldwide team
- Over 50% of R&D has more than 10 years of experience
- Taipei: New project development, Advanced technology
- Shenzhen: MP, process engineers, cable development

Vertical Integrated Manufacturer

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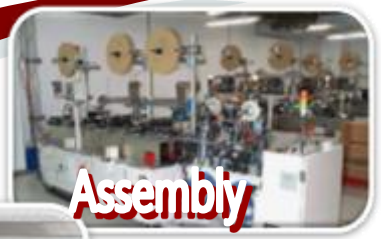

Tooling Competitiveness

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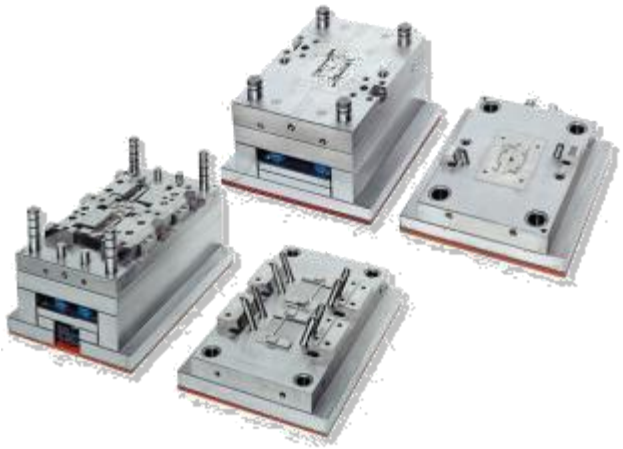
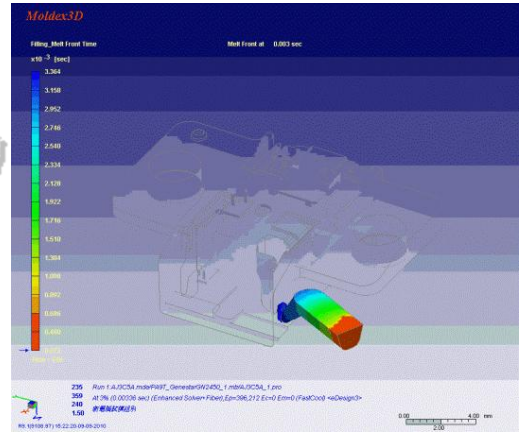
In house vertical integration from product design to precise mold processing





Wire Cutting

- Seibu (±0.002mm)
- Sodick (±0.002mm)
- 泰州(±0.03mm)

Optical Grinding

- Waida (±0.005mm)

EDM

- Sodick (±0.005mm)
- 亞特 (±0.02mm)

Cable Assembly Competitiveness

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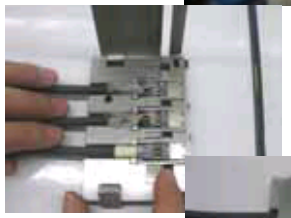
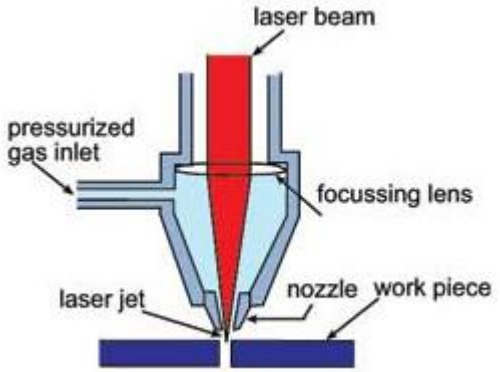
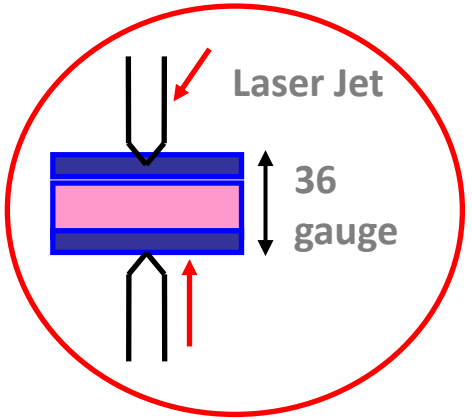
Soldering Process



Cutting Technology



Capable of removing cable jacket for up to 36 gauge by using Laser Technology



Cable Assembly Competitiveness

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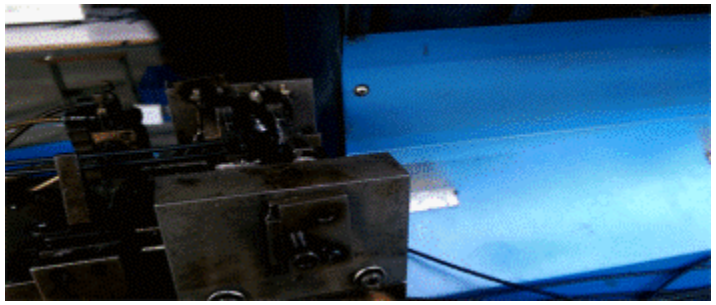
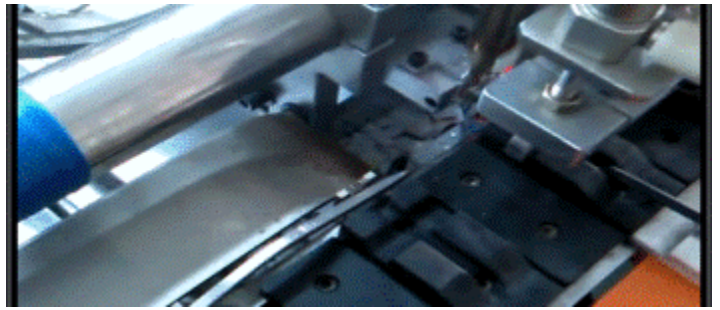
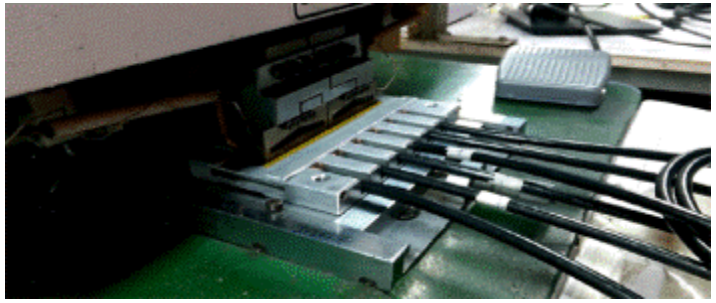


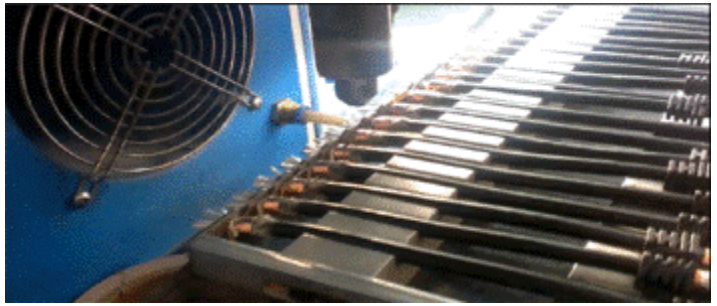
Automatic Wire Cutting, Stripping Machines



Automatic Welding Machine



Automatic Soldering Machine (Hot Bar)



Automatic Cutting Laser Machine

Cable Assembly Competitiveness

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Automation

(wire cutting, pressing and soldering)

Low Pressure Molding

Laser Machine

Waterproof Tester

Ultrasonic Drilling Machine

3.1

SIMULA TECHNOLOGY Product Solutions

INDUSTRIAL & OUTDOOR SOLUTIONS

- M Series (M8 and M12)
- Circular Plastic Connectors
- Waterproof Data Connectors (HDMI, D-sub and USB)

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Industrial Solutions

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M-SERIES CONNECTORS

M12 Series

M12 A, B, C, D, X, S, T-coding

*Note:

M12 circular connectors typically used for industrial process measurement and control.

M8 Series

M8 A, B-coding

* Typically used in Industrial Conveyors, Heavy Machineries, Sensors, Light Electric Vehicle

M12

- 3, 4, 5, 8, 12, 17pins
- A, B, C, D, X, S, T, L coding
- IP67

M8

- 3, 4, 5, 6, 8Pins
- IP67

Remark: M8, M12… is the dimension of the thread of the thread locking.

www.simulatechnology.com

Outdoor Solutions

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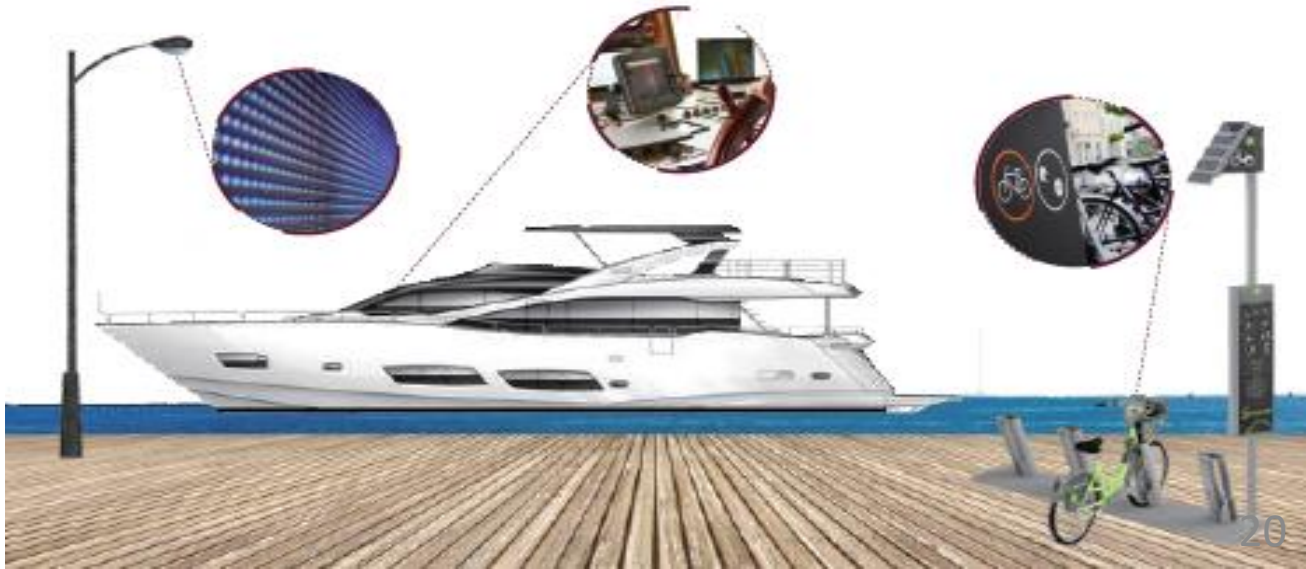
CIRCULAR PLASTIC CONNECTORS

Circular Series
Outdoor

- 3 different sizes available to cater various pin counts from 3 to 18 contacts
  - ❑ **Standard (B-Size)**
  - ❑ **Middle (C-Size)**
  - ❑ **Large (D-Size)**
- Options from 2A to 20A current pin rating
- Receptacles, Field Installation & Cable Molding available
- Different mating styles: Screw Thread or Lock Bayonet
- Hybrid Connectors available – Power+Data in one
- IP67/IP68 Ingress Protection
- Configurable & customizable

Harsh Environment
Corrosion Resistant
Waterpoof

Panel Mount
Overmolded with Cable
Field Attachable



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Waterproof Data Connectors (HDMI, D-sub & USB)

HDMI Connectors

- Receptacle and Overmolded with Cable
- IP67 mated waterproof

USB Connectors

- Vertical, RA
- USB, micro USB 2.0/3.1 Connector and cable
- IP67

D-Sub Connectors

- Standard D-Sub Connector
- High Density D-Sub Connector
- Receptacle / Overmolded with Cable in 9, 15, 25, 37Pins
- IP67

3.2

SIMULA TECHNOLOGY Product Solutions

AUTOMOTIVE SOLUTIONS

- OBD II Series
- DE Series
- SAE J1939, J1708, OBD2 connectors and dongles
- FAKRA Series
- RF IDC Coaxial Connector & HSD
- Trailer Connector & Superseal 1.5
- Custom Cable/Wire Harness

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Simula Technology Product Solutions

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Automotive

IATF 16949 Certified

M Series
- Waterproof , Blind Mating, Several sizes

DE Series
- Circular, Thermoplastic, Waterproof / High power, Quick Lock

OBD-II Series
- Standard interface, Installing in vehicle, Customized product

Fakra Series
- Waterproof . Fulfill the tough requirements of the automotive industry

RF IDC Coaxial Connector & HSD
- Good RF Performance up to 6GHz which VSWR < 2 (~ under 10dB)

ADAS System Series
- Waterproof

Automotive Solutions

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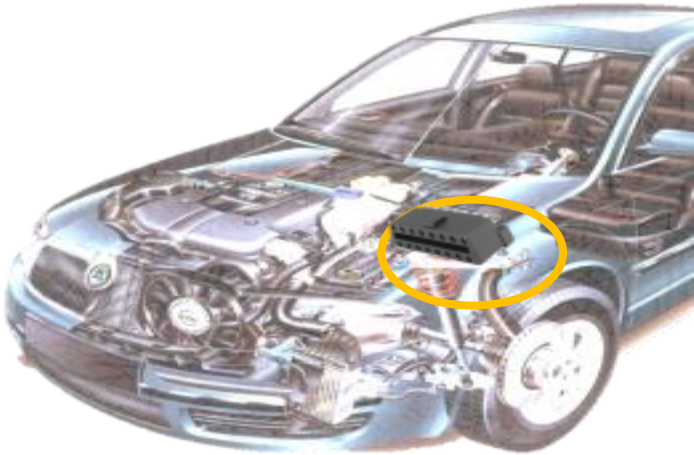
OBD II SERIES

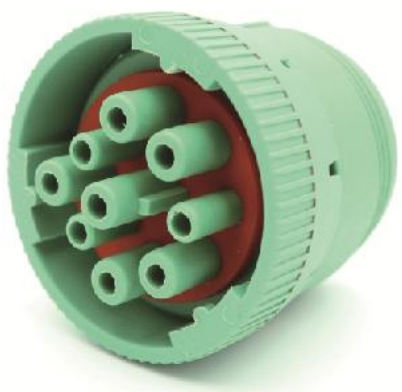
OBDII is a diagnostic monitor, demanded to built right into all vehicle.

Basic functions:

- Monitor emissions condition.
- Identify failure problems.
- Record vehicle's performance.
- Access to vehicle's computer database.



Automotive Solutions



DE CONNECTOR SERIES

Application:
- Trucks and buses
- Heavy equipment and farm machinery
- Off road, marine and recreational vehicles
- Plant equipment and robotics
- Communication systems

B.C.E. ELECTRONICS

Features
- Rugged thermoplastic housing
- -55 ℃ to + 125℃ operating temperature
- Silicone seals
- Crimp contacts with option of gold or nickel, solid or stamped
- Current rating: 13 amps all contacts
- Hand insertable / removable

Automotive Solutions

SAE J1939, J1708, OBD2 connectors and dongles

Automotive Solutions – FAKRA Series

Applications

- Radio antenna
- GPS telematics or navigation s
- GSM mobile communication
- Remote Vehicle Diagnostics
- Infotainment Systems

Features

- Fulfill the tough requirements of the automotive industry
- 14 different mechanical and color codes
- Plastic housing with locking feature and clicking noise
- Usable on several coaxial cables (RG174,RG178,RG58…)
- Available in multiple connector configurations (Vertical, Right Angle, PCB design…)

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www.bce.it - E-mail: bce@bce.it

Automotive Solutions – RF IDC Coaxial Connector & HSD

Features and Benefits:

- Good RF Performance up to 6GHz which VSWR < 2 (~ under 10dB)
- Can replace costly traditional RF connector systems.
- Mechanically strong with peel off force up to 70N.
- Easy assembly process with ability to automate.

High Speed Data HSD Connector

Applications

- Vehicle Infotainment Modules
- Cameras
- Consumer ports and display units

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Automotive Solutions

B.C.E. ELECTRONICS

Trailer Connector & Superseal 1.5

Trailer Connector

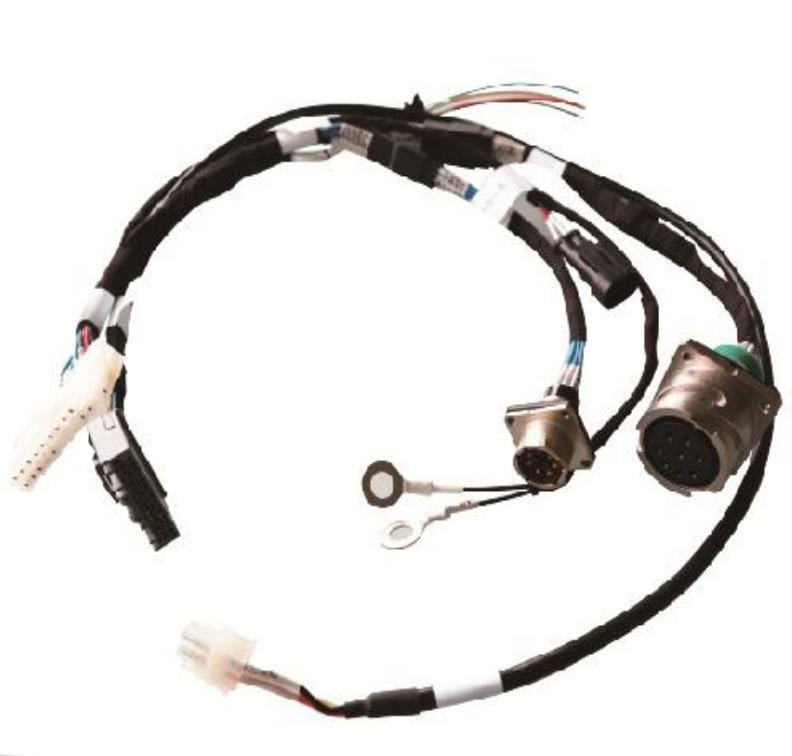
Superseal 1.5

www.simulatechnology.com

Automotive Solutions

B.C.E. ELECTRONICS

Custom Cable/Wire Harness



3.3

SIMULA TECHNOLOGY Product Solutions

CONSUMER SOLUTIONS

- USB, micro USB 2.0/3.1 Connector,
  Type C Hub: USB-C 3.1 Gen 2 with PD
- Waterproof USB-C/Audio/Micro-B
- Universal Docking Station:
  USB-C 3.1 Gen 2 with PD 3.0
- Virtual Link 10G I 3 Channels

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Consumer Solutions

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USB-IF Certified Type-C

Consumer Solutions

Waterproof USB-C/Audio/Micro-B

Component Level

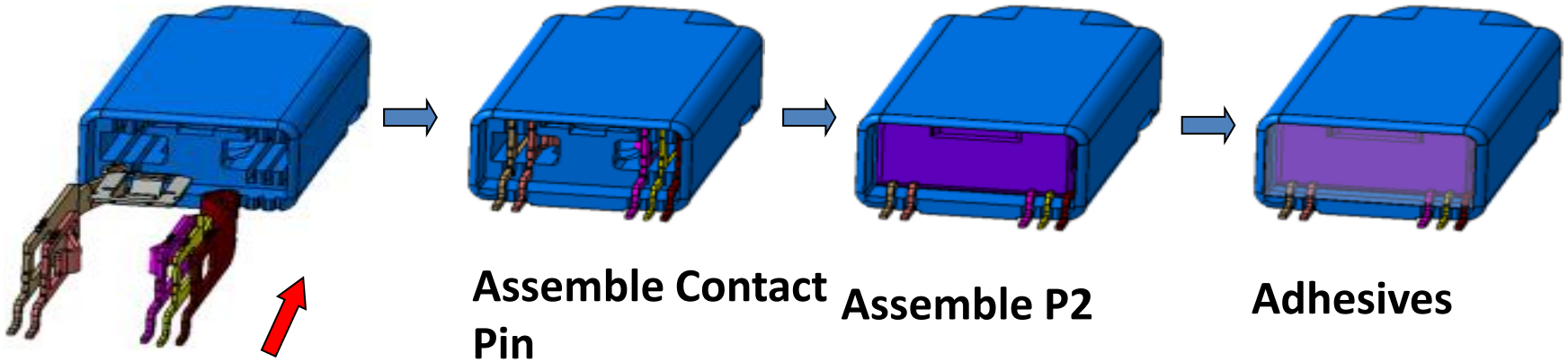
- Insert Molding
- Mylar (Support up to IPX3)
- Adhesive (Required from IPX4)

Device Level

- Device Case Mechanical Support (O-Ring)

Waterproof Audio Jack Demo

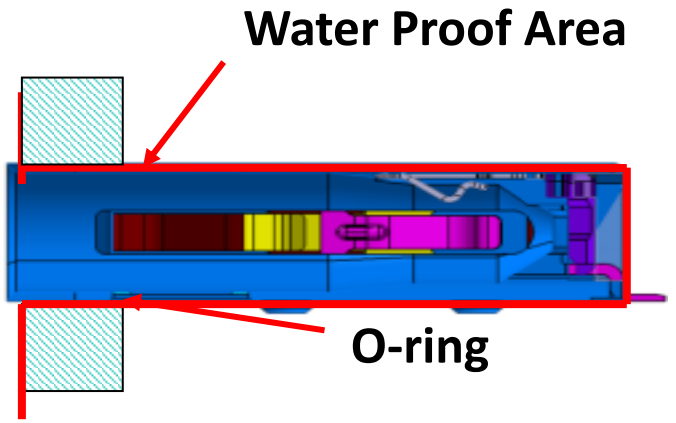
Example:WP3E8A/WP3E7C/WP3E7D/WP3E8B



Assemble Contact Pin

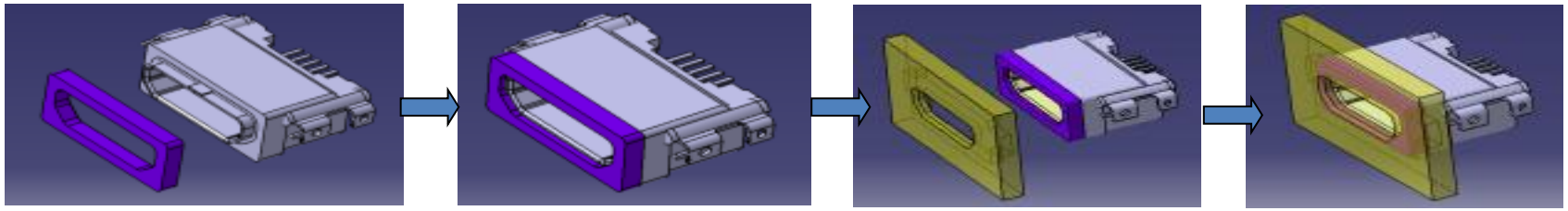
Assemble P2

Adhesives



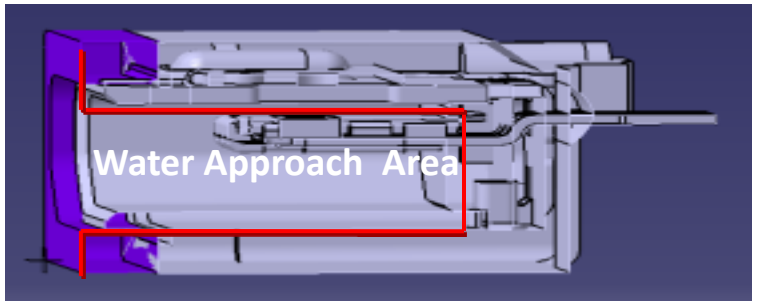
Waterproof uUSB Demo

Example:WP812B/C/D



Assemble O-ring

Finished Product in ID



List of Solutions

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Lake Series

Elliott: Type-C to DP

Green: Type-C to HDMI

Moses: Type-C to RJ45

Chelan: Type-C to USB3.0

Ozette: HDMI to VGA

Silver: Type-C to SATA

Creek Series

Rocky: Type-C to DP w/ Charging

Thunder: Type-C to HDMI w/ Charging

Swift: Type-C to VGA w/ Charging

List of Solutions

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Glacier Series

Aurora: 1C + 3A

Anderson: 2C + 2A

Brooks: 1C + 2A + RJ45

Bacon: DP 1.4 MST Hub

Mountain Series

Rainier: Gen 2 Type-C to 6 Ports Dock

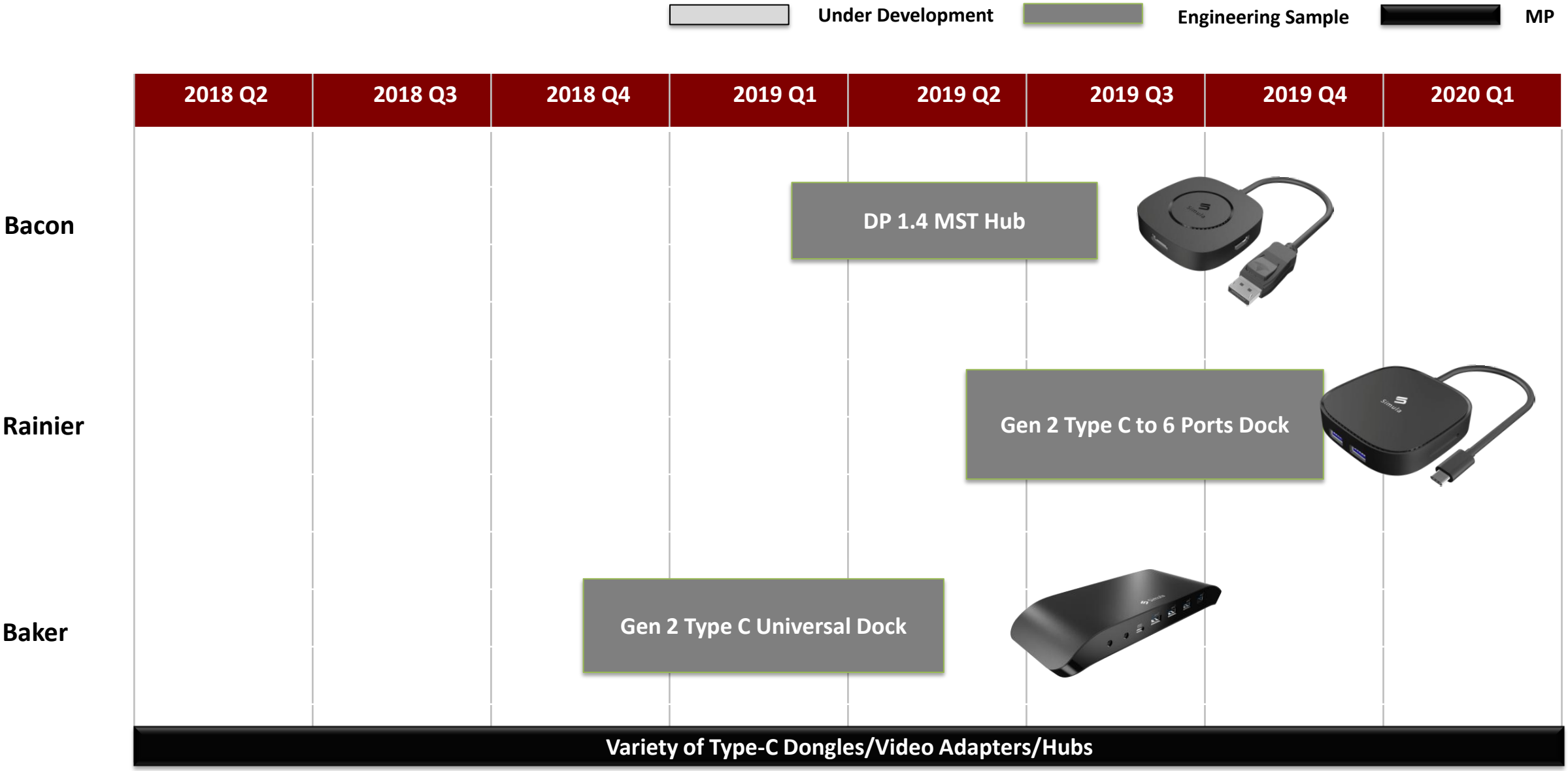
Baker: Gen 2 Type-C Universal Dock

Product Roadmap

Under Development | Engineering Sample | MP

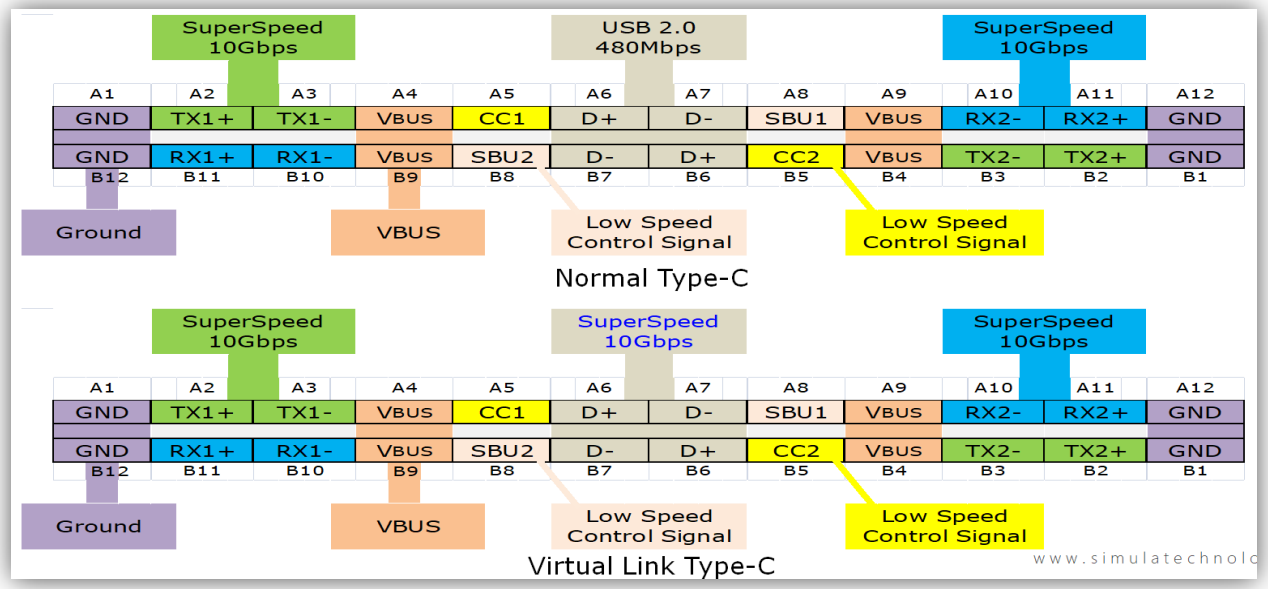
	2018 Q2	2018 Q3	2018 Q4	2019 Q1	2019 Q2	2019 Q3	2019 Q4	2020 Q1
Elliott	Type-C to DP 1.4							
Green	Type-C to HDMI 2.0b							
Rocky Thunder Swift		2 Ports Type- C Display Adapters w/ PD						
Brooks Anderson Aurora		4 Ports Type- C Hub Series						
	Variety of Type-C Dongles/Video Adapters/Hubs							

Product Roadmap



Consumer Solutions

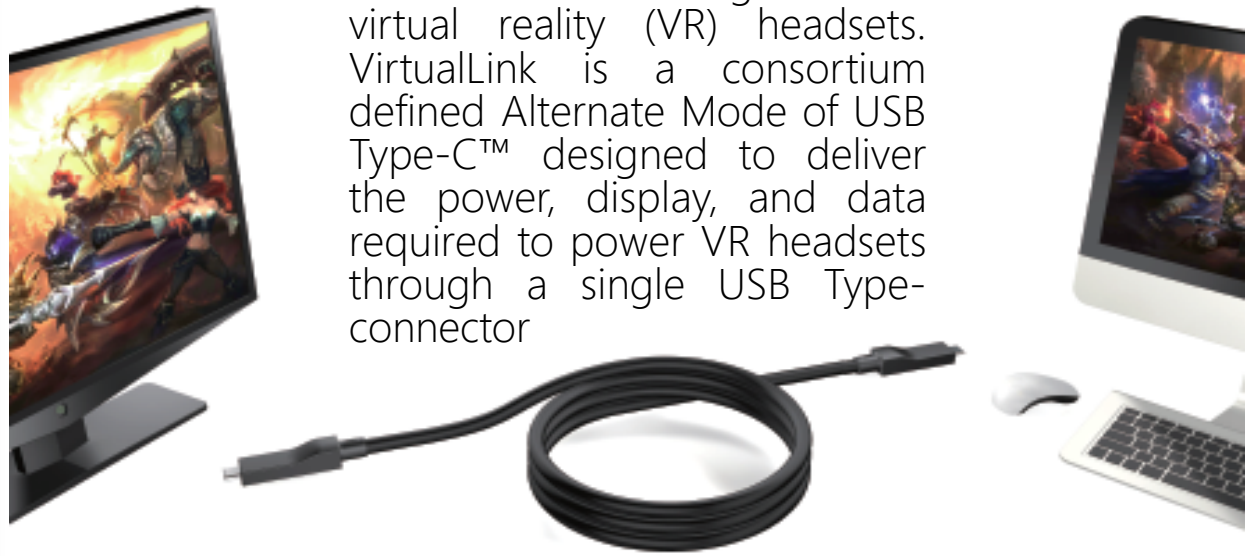
USB Type-C Alternate Modes				
	VirtualLink	DisplayPort (4 Lanes)	DisplayPort (2 Lanes)	Base USB-C
Video Bandwidth (Raw)	32.4Gbps	32.4Gbps	16.2Gbps	N/A
USB 3.x Data Bandwidth	10Gbps	N/A	10Gbps	10Gbps + 10Gbps
High Speed Lane Pairs	6	4		
Max Power	Mandatory: 15W Optional: 27W	Optional: Up To 100W		



VirtualLink

10G | 3 Channels

VirtualLink is an open industry standard developed to meet the connectivity requirements of current and next-generation virtual reality (VR) headsets. VirtualLink is a consortium defined Alternate Mode of USB Type-C™ designed to deliver the power, display, and data required to power VR headsets through a single USB Type-C connector



3.4

SIMULA TECHNOLOGY Product Solutions

MEDICAL & WEARABLE DEVICE SOLUTIONS

- Medical Product Solutions
  Push-Pull Circular Connector
- Wearable Device Solutions
  Pogo Series, Pogo Charging Cables ,
  Micro-D-sub, Customs Cables

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Medical & Wearable Product Solutions

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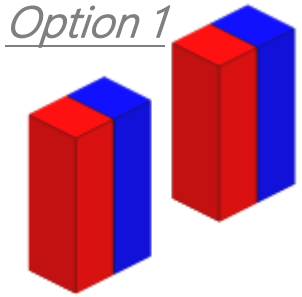
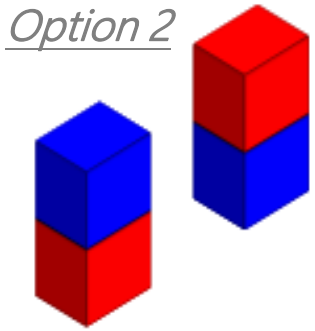
Magnetic Design Basic Model

Option 1



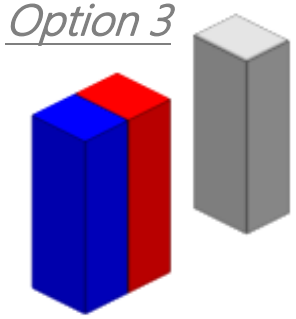
N on one side,
S on mating Side

Option 2



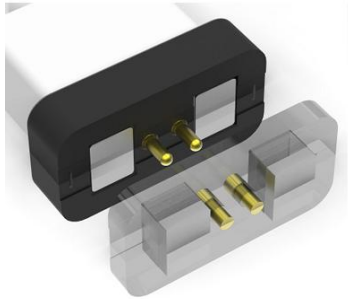
N/S on one side,
S/N on mating Side

Option 3



Magnet on one side,
Metal on mating Side

- *Magnetic and pogo synergy knowhow*
- *Simulation capacity*
- *Custom Design and rapid sample verification*



ps. More variation for different magnet/metal combination

Medical Product Solutions

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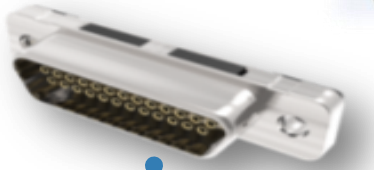
Micro D-Sub Series

- Reverse contact design
- Flex pin contact



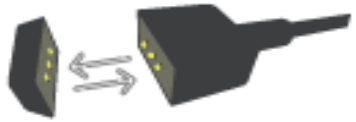
POGO Series

- Magnetic
- High stability contact
- Customized Design

Medical

Easy & Fast Connection

Reversible



High Mating Cycles

Medical Equipment

Wearable

Nurse Call System

Medical Product Solutions

B.C.E. ELECTRONICS

Push-Pull Circular Connector

Features

- Push-Pull self-latching.
- Rugged and reliable circular multipole connector
- Keying system allows for a higher contact density while preventing mismating.
- Ideal choice for test and measurement, instrumentation, medical devices, research and audio/video applications
- Customized product can be developed.

Wearable Product Solutions

POGO Series

- Magnetic
- High stability contact
- Customized Design

Power Charging Cable

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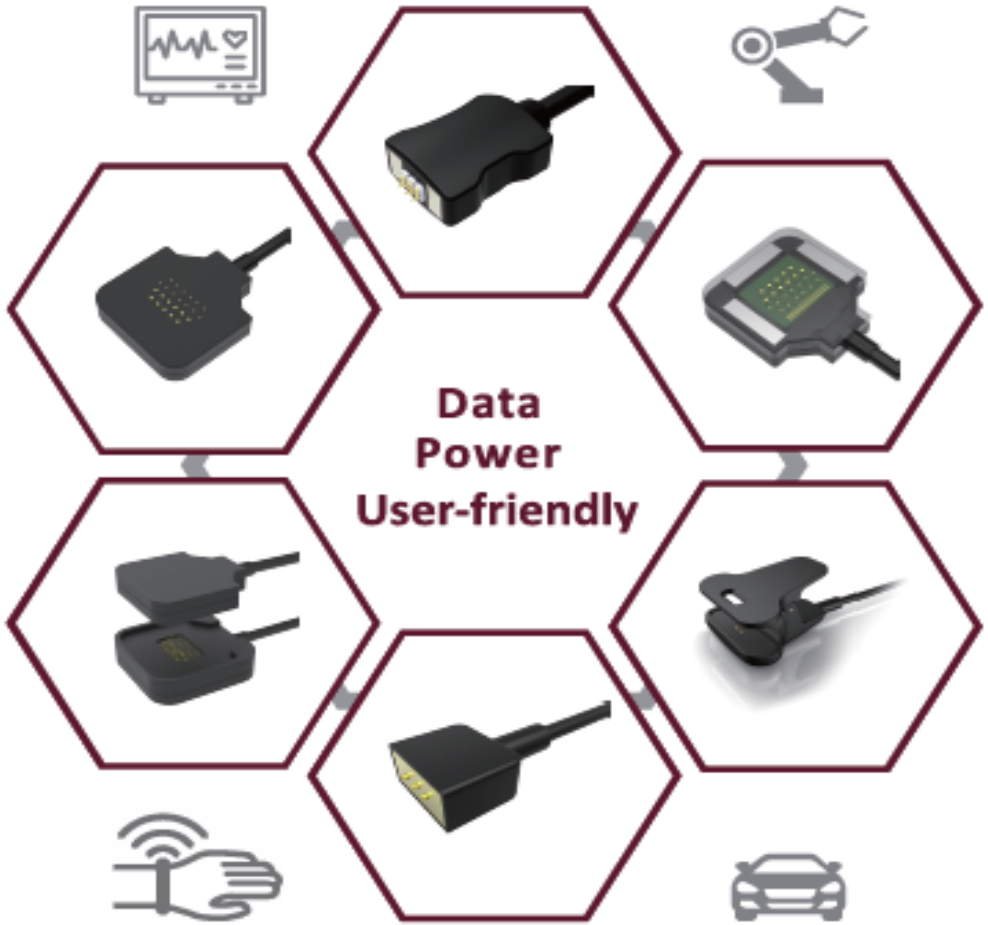
Pogo Magnet



Why Simula?

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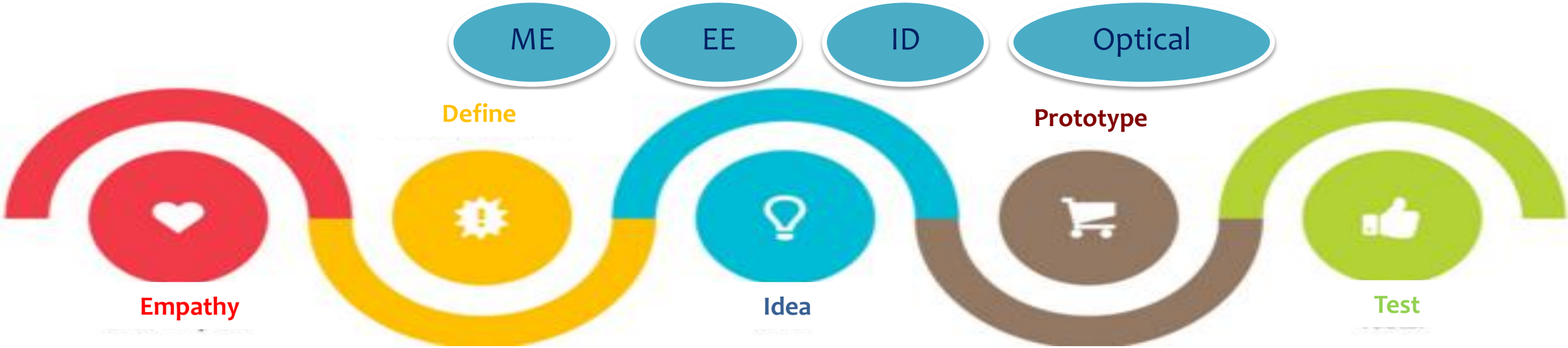
- Design Capability
- Design Process
- Simulation Analysis
- Manufacturing Competitiveness
- Comprehensive & Advance Tester
- Superior Technology Solution Partner



Your Reliable Partner for Electronic Products

Comments and Notes

NB:

Thank you

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