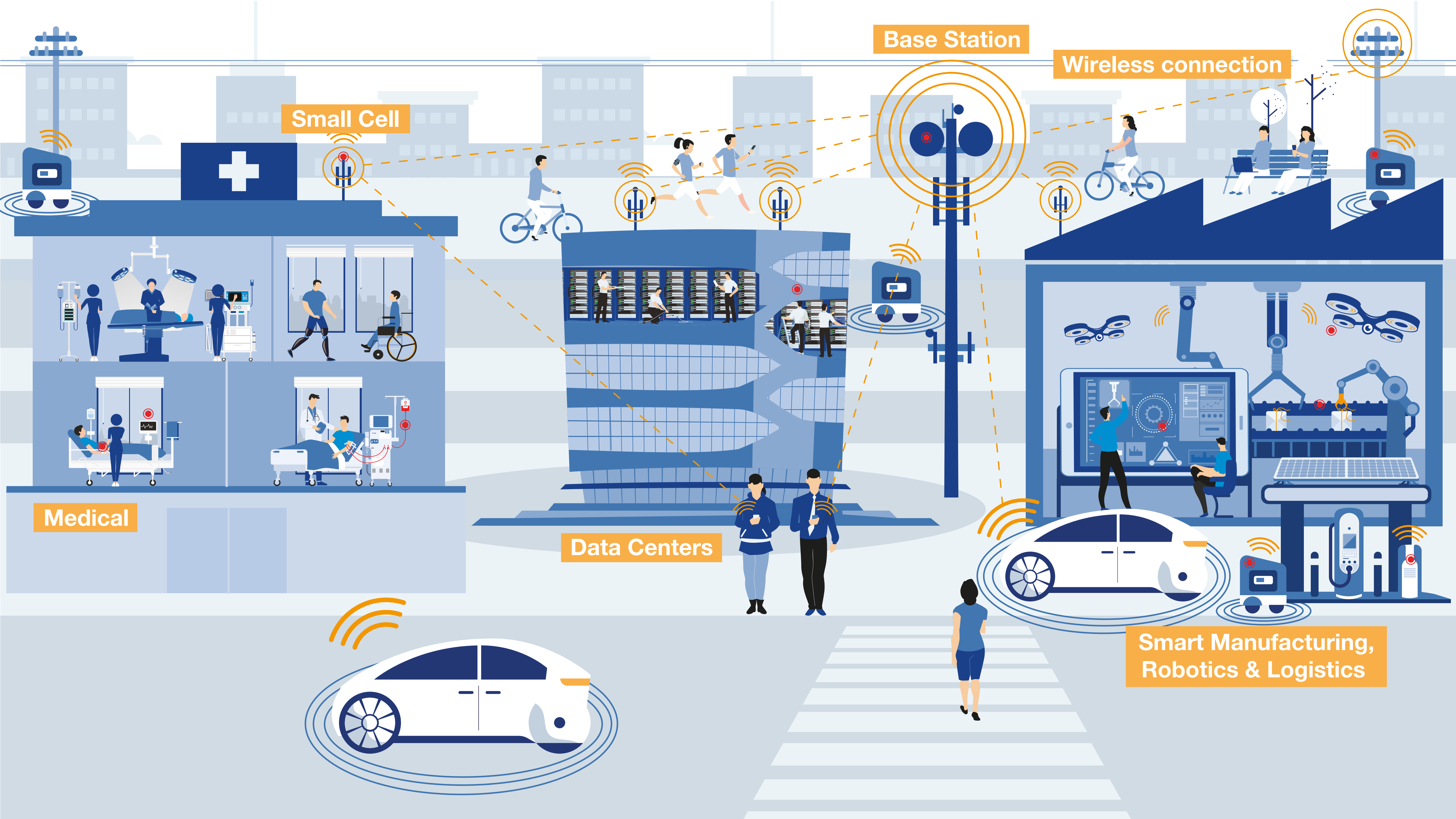




BASF

We create chemistry

Material solutions for 5G connectivity



Small Cell

Base Station

Wireless connection

Medical

Data Centers

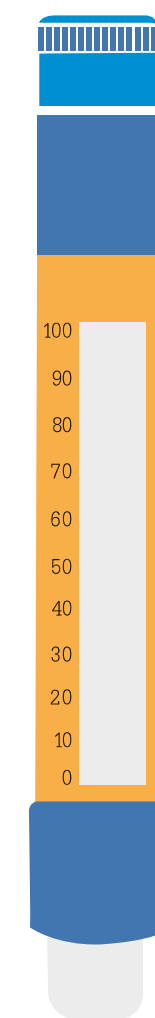
Smart Manufacturing,
Robotics & Logistics

MEDICAL

MEDICAL EQUIPMENT

Ultradur[®] PRO & Ultraform[®] PRO

- Excellent tribological properties
- Balance mechanical with strength, stiffness and toughness
- Good dimensional stability



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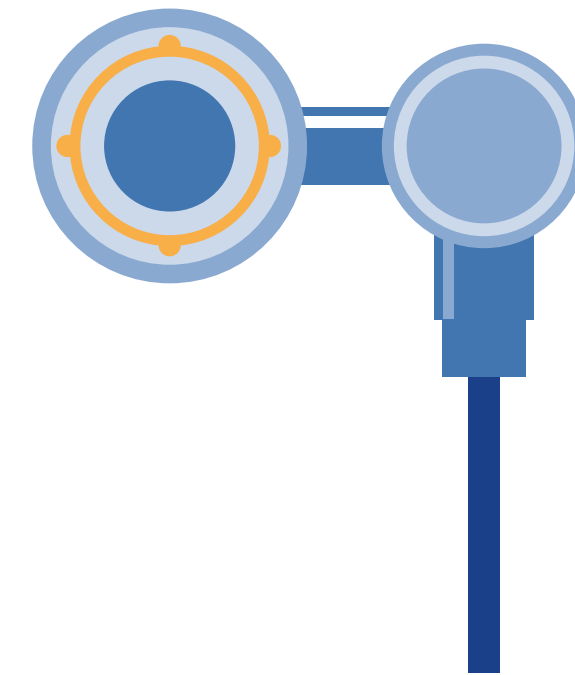
Home

Medical Equipment

Connectors / Sensors

Cables & Wires

MEDICAL



CONNECTORS / SENSORS

Ultramid® & Ultradur®

- Good flowability for thin wall application
- Thermal resistance and durability
- FR performance if needed

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Home

Medical Equipment

Connectors / Sensors

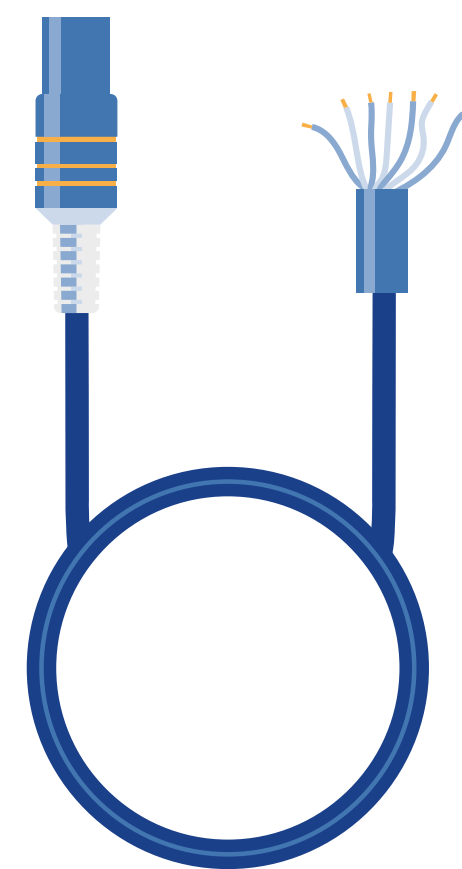
Cables & Wires

MEDICAL

CABLES & WIRES

Elastollan®

- Excellent anti-abrasion properties
- High tear strength
- Good hydrolysis resistance



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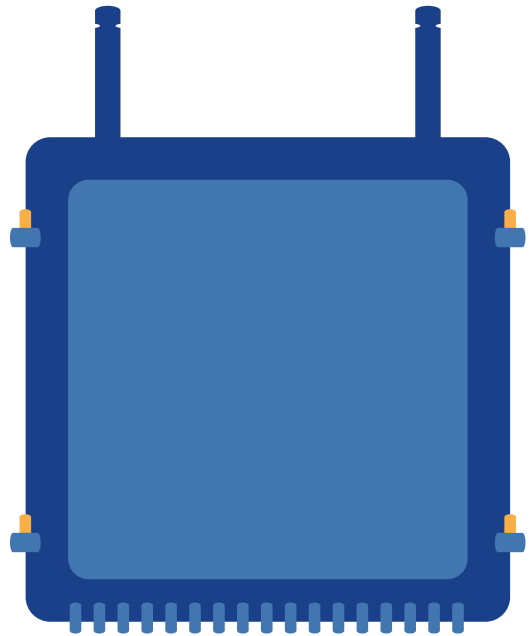
Home

Medical Equipment

Connectors / Sensors

Cables & Wires

SMALL CELL



HOUSING

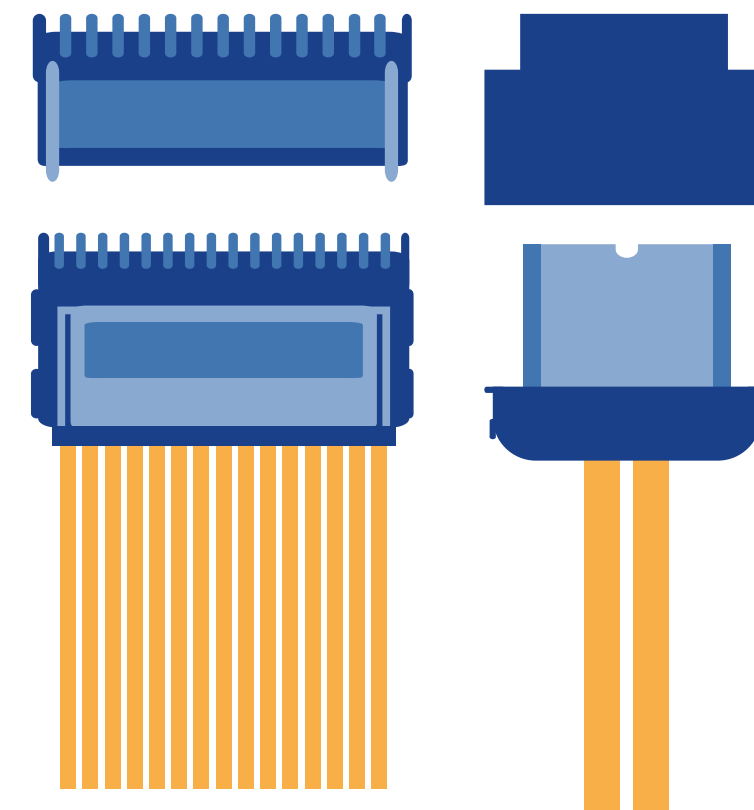
Ultramid[®]
(thermal conductive)

- Low warpage and easy processibility
- Thermal stability and durability
- Good surface finish and mechanical performance

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SMALL CELL



PCB CONNECTOR Ultramid® Advanced N

- High temp resistance
- Blister free solution and low warpage after SMT
- Excellent flowability

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Home

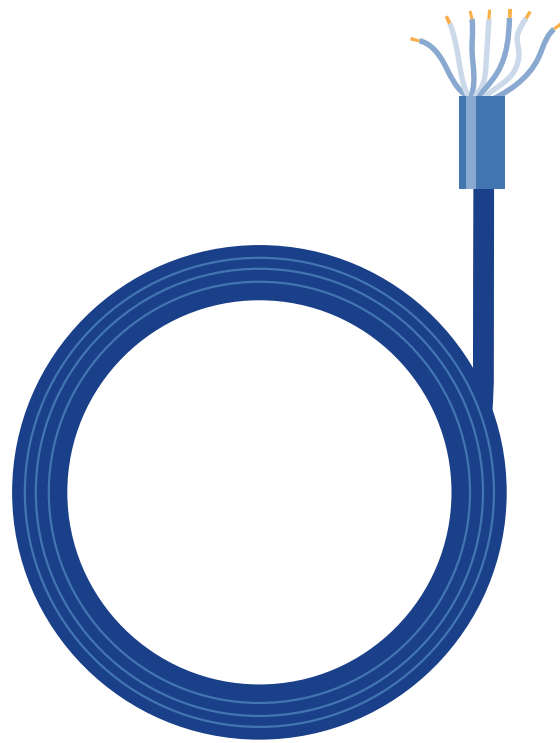
Housing

PCB Connector

Cable Jacket

Cable Connector

SMALL CELL



CABLE JACKET

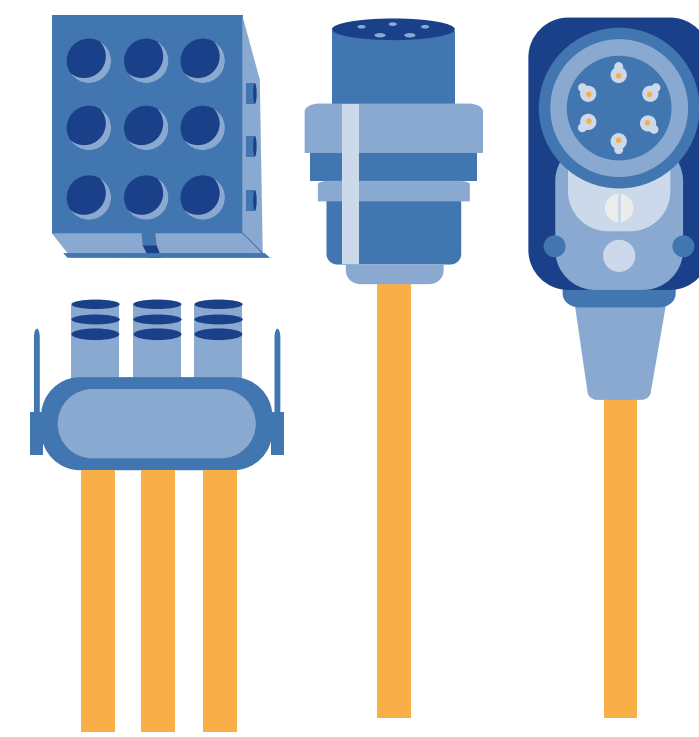
Elastollan®

- Excellent anti-abrasion properties
- High tear strength
- Good hydrolysis resistance

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SMALL CELL



CABLE CONNECTOR

Ultramid® & Ultradur®

- Balanced toughness and stiffness
- Good flowability and easy processing
- Thermal stability

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Home

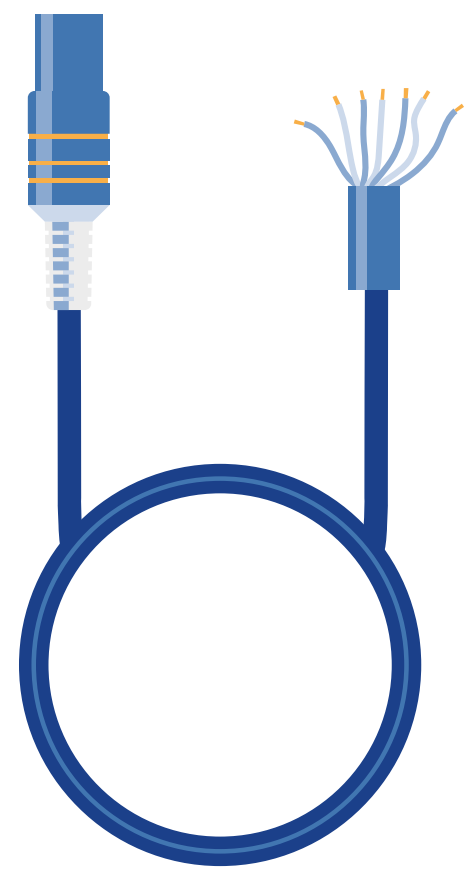
Housing

PCB Connector

Cable Jacket

Cable Connector

WIRELESS CONNECTION



CABLE & WIRE

Elastollan®

- Excellent anti-abrasion properties
- High tear strength
- Good hydrolysis resistance

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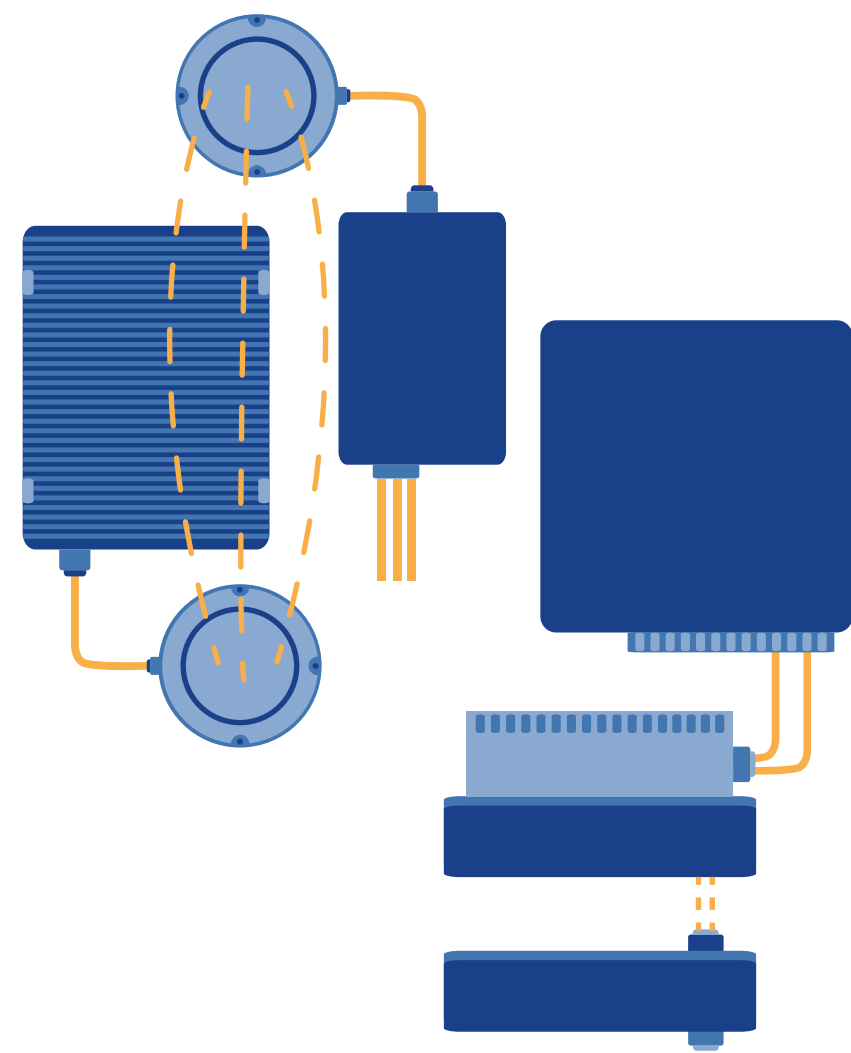
Cable & Wire

Wireless Transmitter /
Receiver Housing

Sensor

Power Supply Unit

WIRELESS CONNECTION



WIRELESS TRANSMITTER / RECEIVER HOUSING

Ultramid® & Ultradur®

- Low warpage and good surface
- Dimensional stability and mechanical performance
- Good welding strength

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Home

Cable & Wire

Wireless Transmitter / Receiver Housing

Sensor

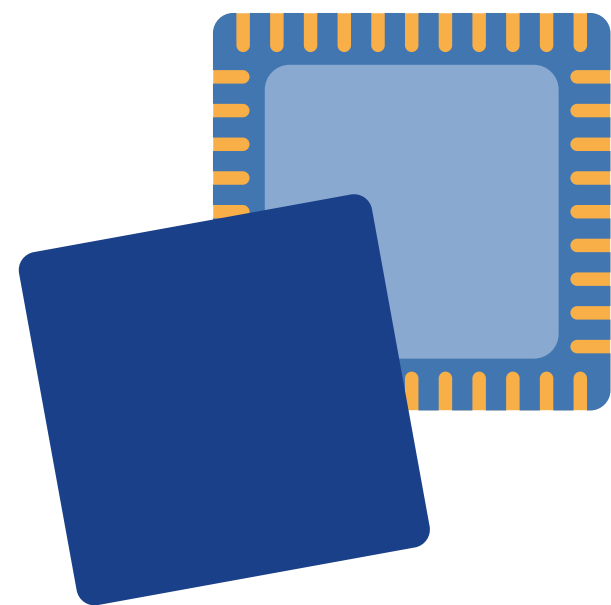
Power Supply Unit

WIRELESS CONNECTION

SENSOR

Ultradur® & Ultramid®

- Good flowability for thin wall application
- Thermal resistance and durability
- FR performance if needed



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Home

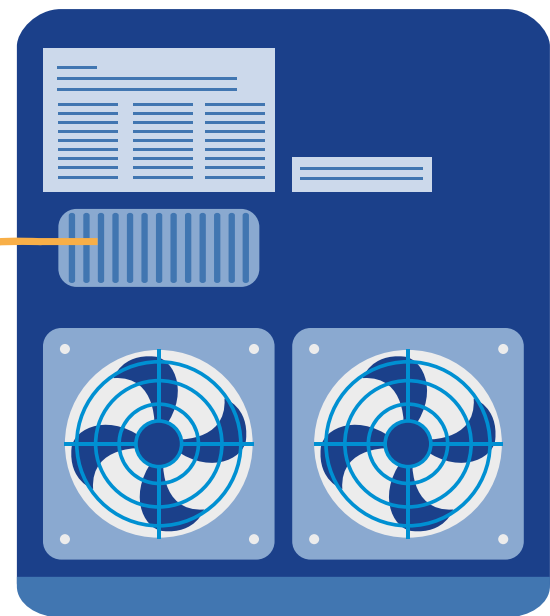
Cable & Wire

Wireless Transmitter /
Receiver Housing

Sensor

Power Supply Unit

WIRELESS CONNECTION



POWER SUPPLY UNIT

Ultradur® & Ultramid® FR

- Easy processability and good mechanical
- Good electrical performance i.e. CTI
- FR performance if needed

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Home

Cable & Wire

Wireless Transmitter / Receiver Housing

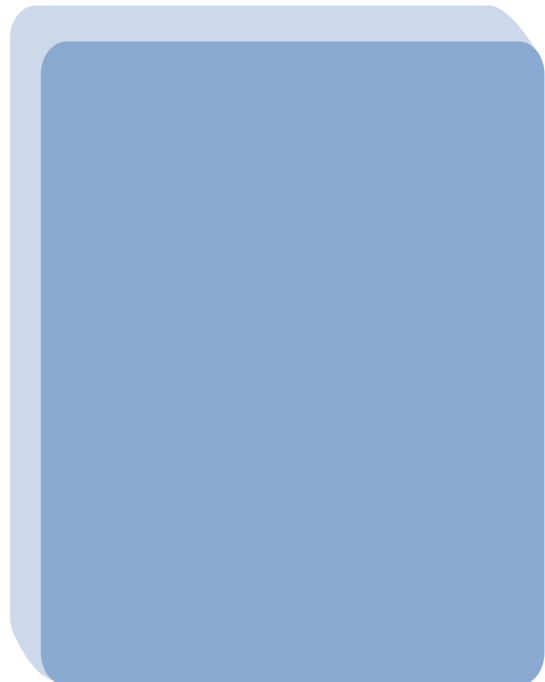
Sensor

Power Supply Unit

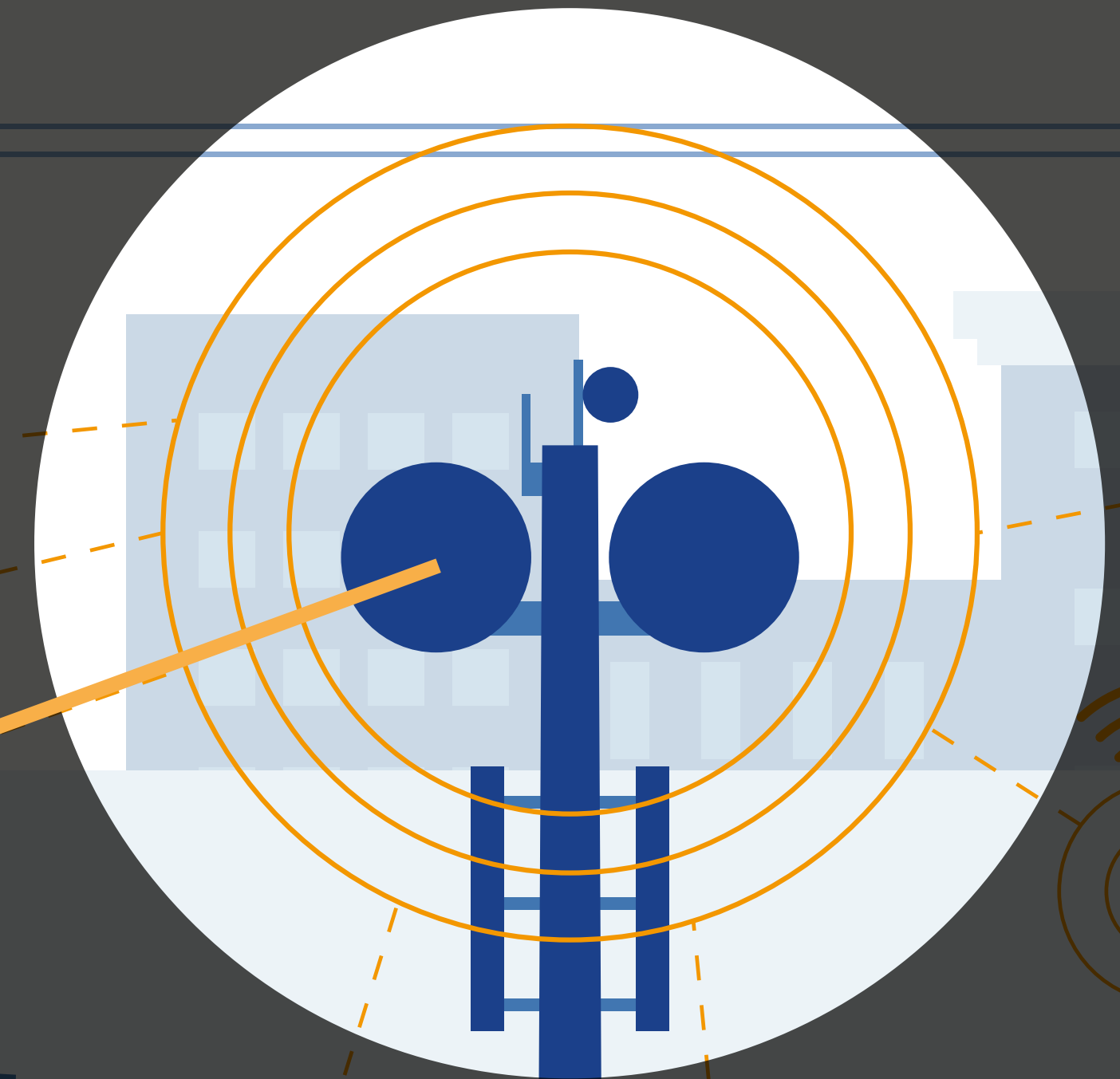
BASE STATION

HOUSING

PU Foam Solution (Dev)



- Light weight
($\geq 50\%$ weight reduction)
- High wave transmission
($\geq 94\%$ wave transmission @6GHz)
- Good impact performance with sandwich structure
- Design flexibility
(customised solution)



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Home

Housing

Transmission
Component

Connector
(Power & PCB)

Power Module

EMI Shielding Plate

BASE STATION



TRANSMISSION COMPONENT

Ultramid® & Ultraform®

- Good mechanical property
- Dimensional stability
- Excellent tribological properties

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Home

Housing

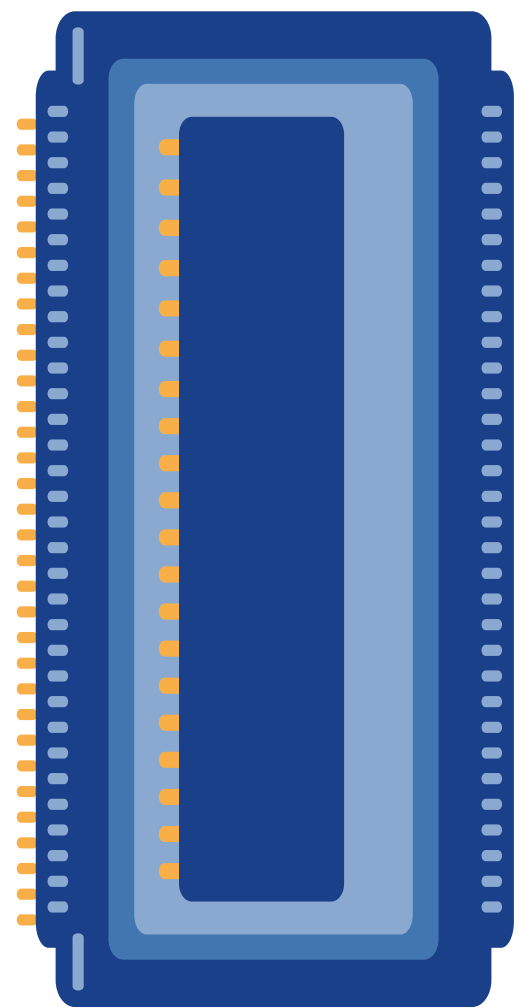
Transmission Component

Connector (Power & PCB)

Power Module

EMI Shielding Plate

BASE STATION



CONNECTORS (POWER AND PCB)

Ultramid® Advanced N and Ultramid®

- Excellent mechanical property and thermal stability
- Low blooming and good electrical property
- Halogen free FR performance

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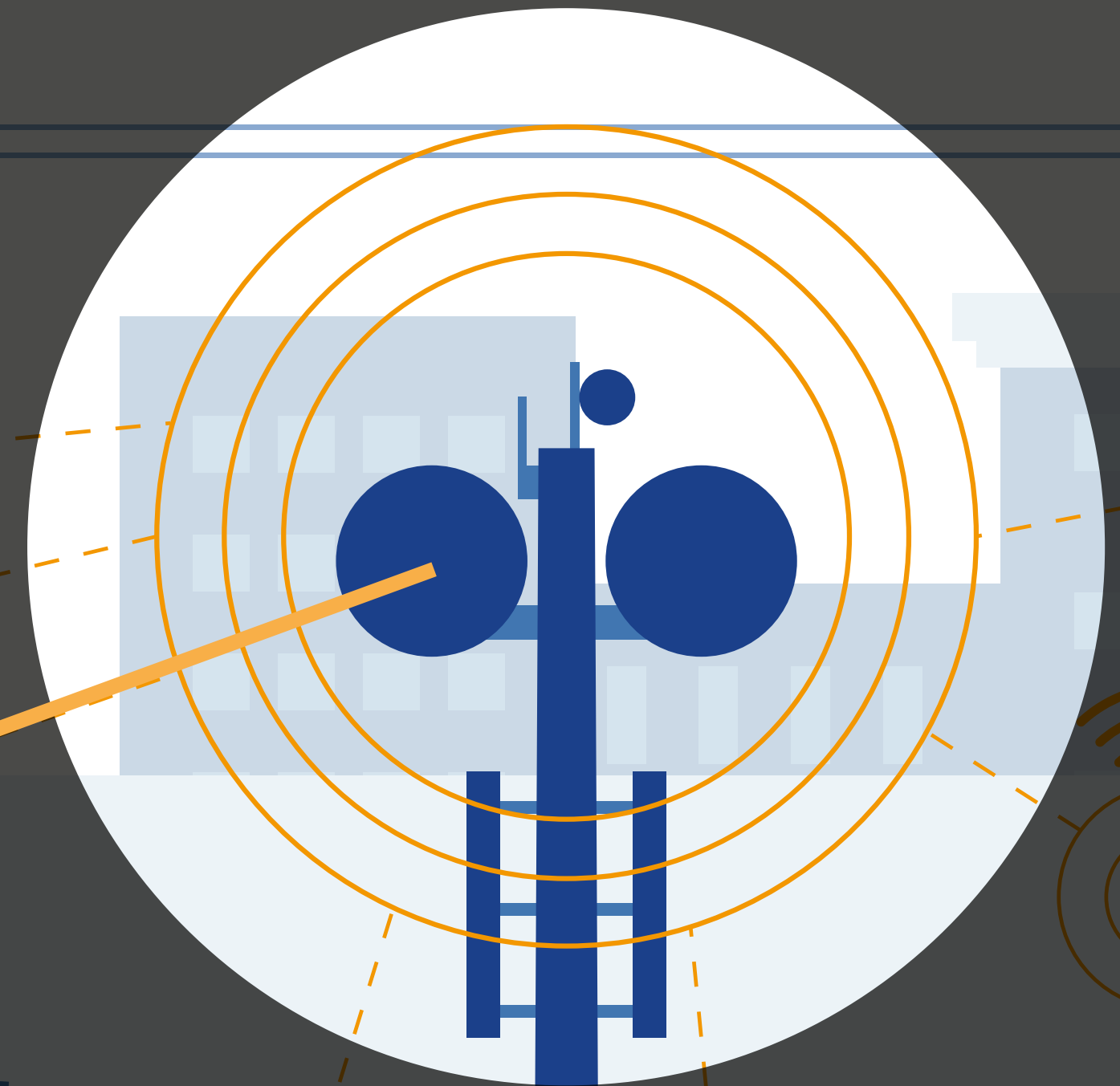
Housing

Transmission
Component

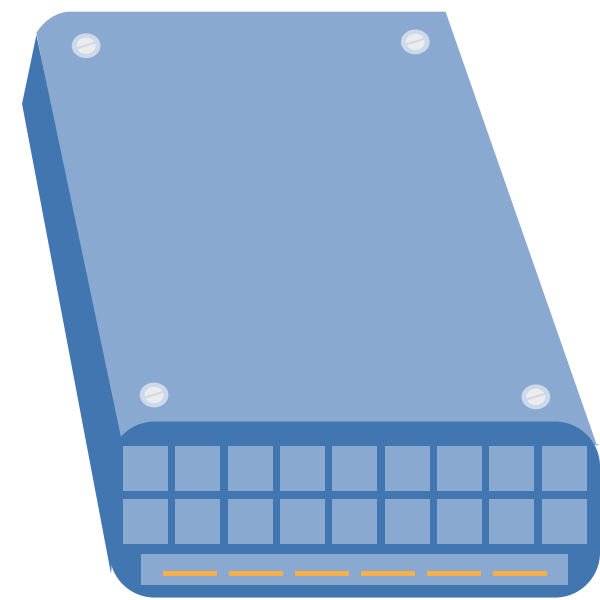
Connector
(Power & PCB)

Power Module

EMI Shielding Plate



BASE STATION



POWER MODULE

Ultramid®

- Thermal conductive

- Low warpage and surface finish
- Good thermal conductive property both in two directions
- Balance stiffness and toughness

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Home

Housing

Transmission
Component

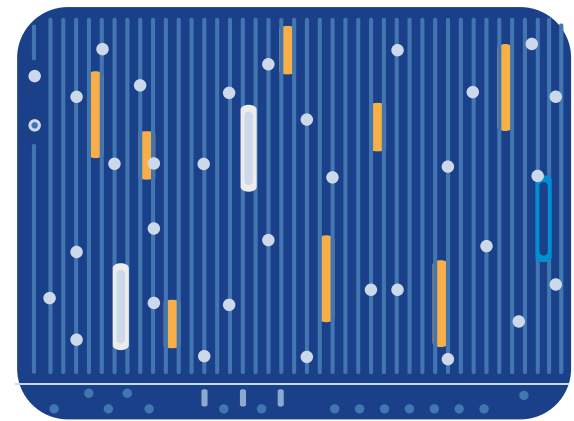
Connector
(Power & PCB)

Power Module

EMI Shielding Plate

BASE STATION

EMI SHIELDING PLATE



Ultradur®

- Light weight vs metal
- Hydrolysis resistance and good warpage
- Good shielding efficiency

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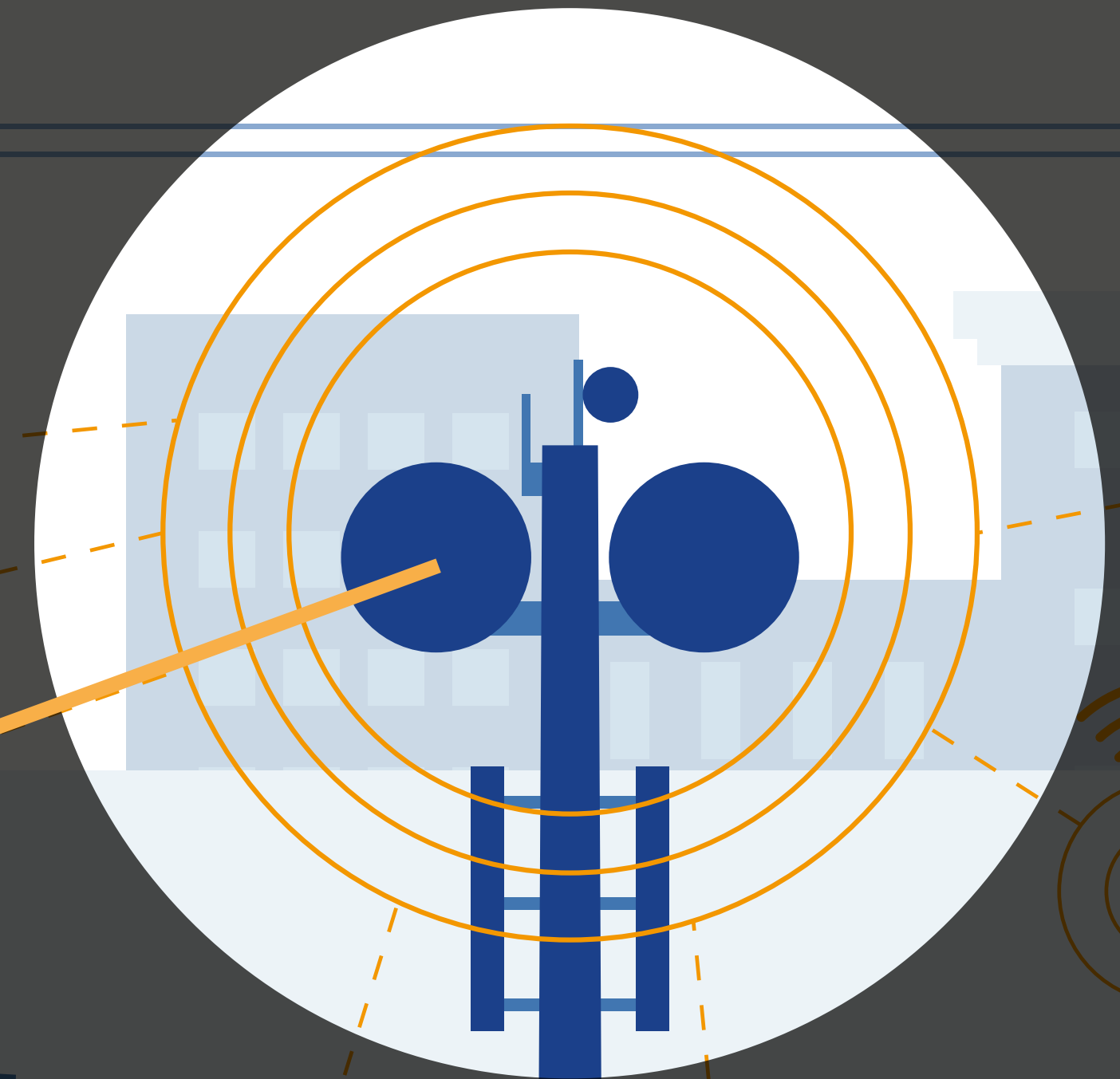
Housing

Transmission
Component

Connector
(Power & PCB)

Power Module

EMI Shielding Plate



SMART MANUFACTURING, ROBOTICS & LOGISTICS



AUTONOMOUS MOBILE ROBOTS - STRUCTURE

Ultramid®

- Excellent mechanical strength
- Easy processing and good surface finish
- Dimensional stability

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Home

Autonomous Mobile
Robots - Structure

Radar Housing
& Cover

Sensor /
Connectors

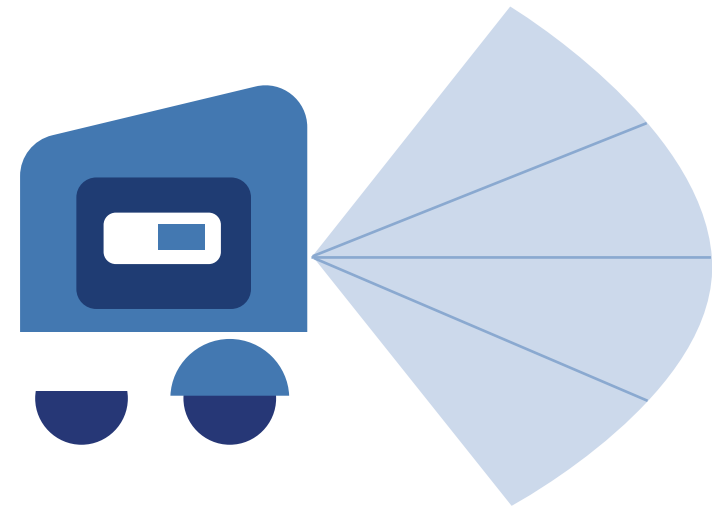
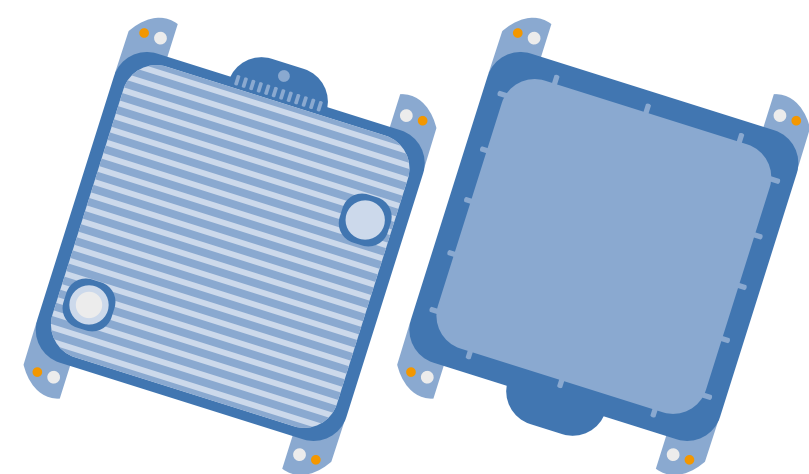
Automated Belts
(Logistics)

Control Systems
Housing

Camera Housing
& Cover

Drone Impeller and
Structural Components

SMART MANUFACTURING, ROBOTICS & LOGISTICS



RADAR HOUSING & COVER

Ultradur® & Ultradur® RX

- Excellent radar performance
- Laser welding performance
- Hydrolysis resistance

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Home

Autonomous Mobile
Robots - Structure

Radar Housing
& Cover

Sensor /
Connectors

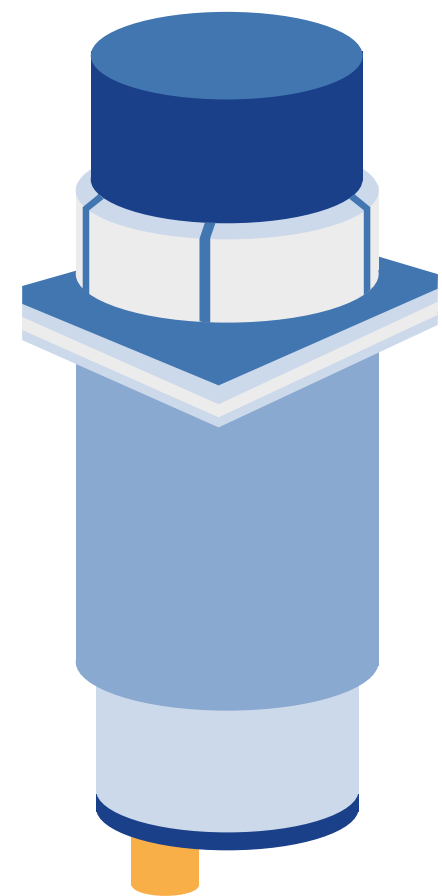
Automated Belts
(Logistics)

Control Systems
Housing

Camera Housing
& Cover

Drone Impeller and
Structural Components

SMART MANUFACTURING, ROBOTICS & LOGISTICS



SENSOR / CONNECTORS

Ultradur® & Ultramid®

- Good flowability for thin wall application
- Thermal resistance and durability
- FR performance if needed

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Home

Autonomous Mobile
Robots - Structure

Radar Housing
& Cover

Sensor /
Connectors

Automated Belts
(Logistics)

Control Systems
Housing

Camera Housing
& Cover

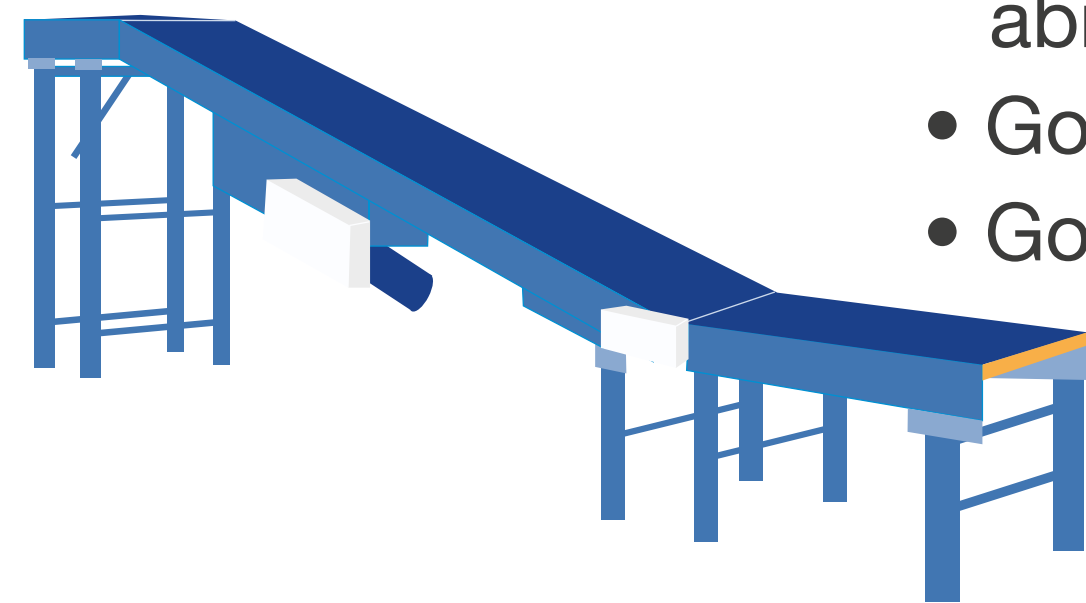
Drone Impeller and
Structural Components

SMART MANUFACTURING, ROBOTICS & LOGISTICS

AUTOMATED BELTS (LOGISTICS)

Elastollan®

- Excellent flexibility and abrasion performance
- Good fatigue performance
- Good hydrolysis resistance



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Home

Autonomous Mobile
Robots - Structure

Radar Housing
& Cover

Sensor /
Connectors

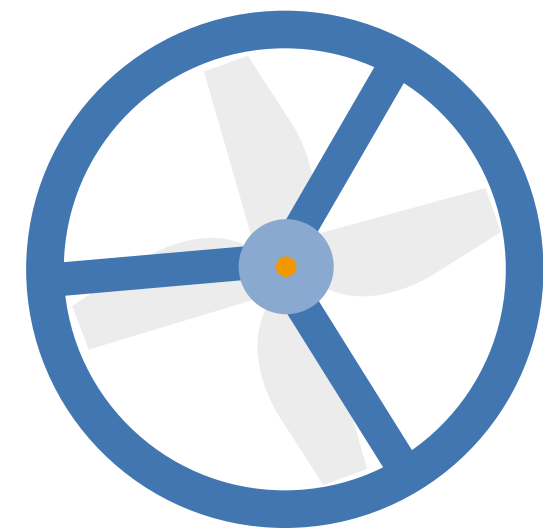
Automated Belts
(Logistics)

Control Systems
Housing

Camera Housing
& Cover

Drone Impeller and
Structural Components

SMART MANUFACTURING, ROBOTICS & LOGISTICS



DRONE IMPELLER AND STRUCTURAL COMPONENTS

Ultramid® LFX

- Light weight solution
- Excellent mechanical strength and stiffness
- Good fatigue performance

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Home

Autonomous Mobile
Robots - Structure

Radar Housing
& Cover

Sensor /
Connectors

Automated Belts
(Logistics)

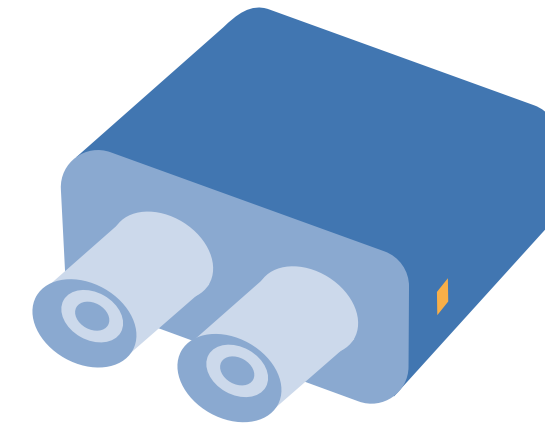
Control Systems
Housing

Camera Housing
& Cover

Drone Impeller and
Structural Components

DATA CENTERS

COAXIAL CONNECTOR (I.E. FAKRA)



**Ultramid® Advanced
Ultramid® and Ultradur®**

- Excellent mechanical property
- Low blooming and good electrical property
- Thermal stability and durability

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Home

Coaxial Connector
(I.E. Fakra)

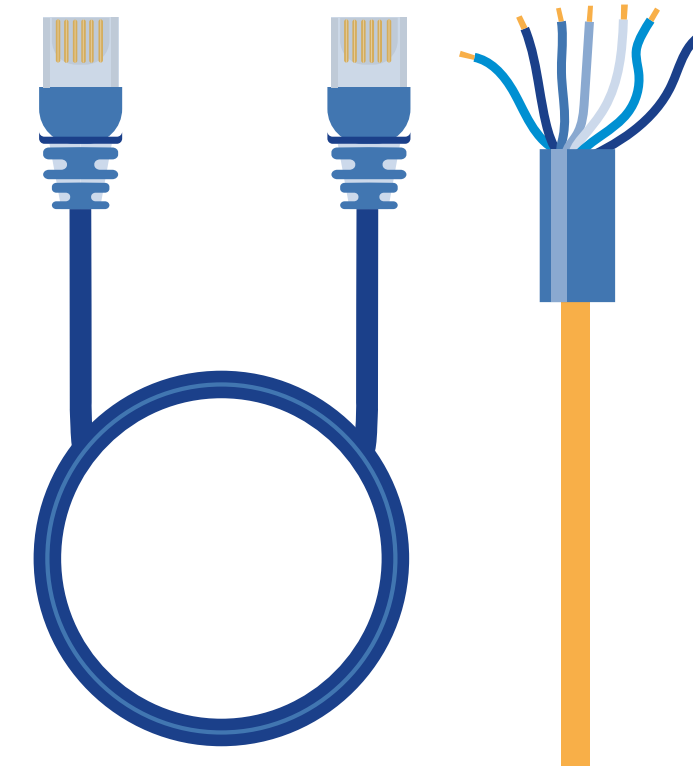
Cable Jacket

Data Connector

MCB / MCCB

Terminal Block

DATA CENTERS



CABLE JACKET

Elastollan®

- Excellent anti-abrasion properties
- High tear strength
- Good hydrolysis resistance

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Home

Coaxial Connector
(I.E. Fakra)

Cable Jacket

Data Connector

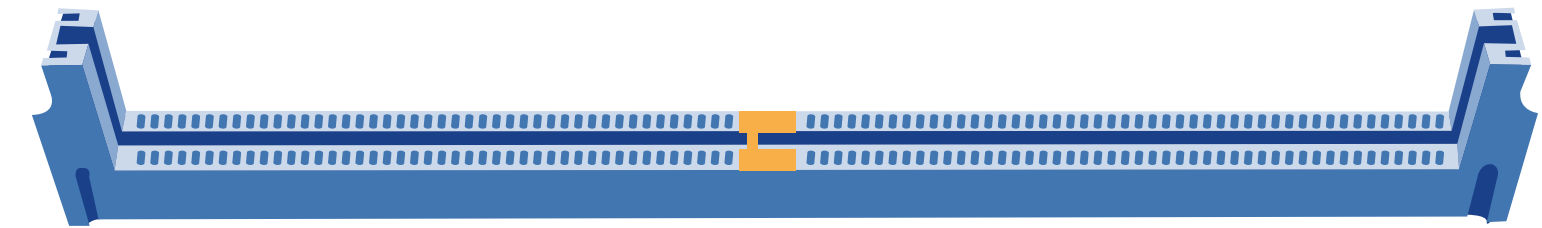
MCB / MCCB

Terminal Block



DATA CENTERS

DATA CONNECTOR Ultramid® Advanced



- Control warpage and flowability
- Excellent properties at thinner part geometry (0.2mm)
- FR and good electrical performance

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Home

Coaxial Connector
(I.E. Fakra)

Cable Jacket

Data Connector

MCB / MCCB

Terminal Block

DATA CENTERS



MCB / MCCB

Ultramid® and Ultradur®

- Good FR and glow wire performance
- Good mechanical and thermal resistance
- Laser marking ability

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Home

Coaxial Connector
(I.E. Fakra)

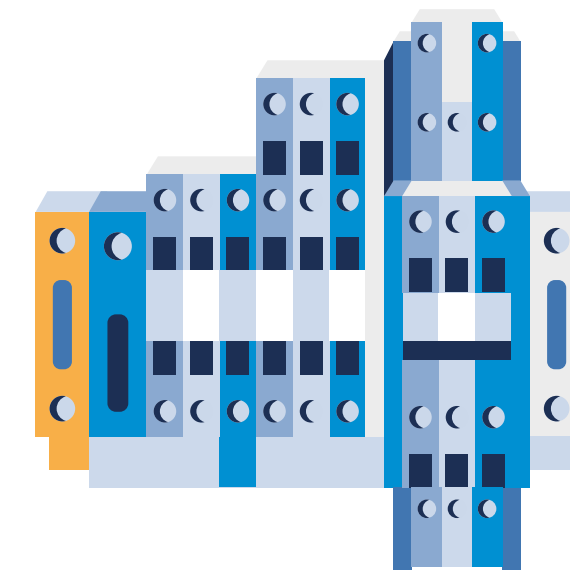
Cable Jacket

Data Connector

MCB / MCCB

Terminal Block

DATA CENTERS



TERMINAL BLOCK

Ultramid®

- Good FR and glow wire performance
- Good flowability, processability and easy colorability
- Good impact behaviour

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Home

Coaxial Connector
(I.E. Fakra)

Cable Jacket

Data Connector

MCB / MCCB

Terminal Block