



# Overmolding Solutions

Reliable connectivity solutions and more.



QUANTUM  
HOLDING

Group Company

2024 v.1

# Who Are We?

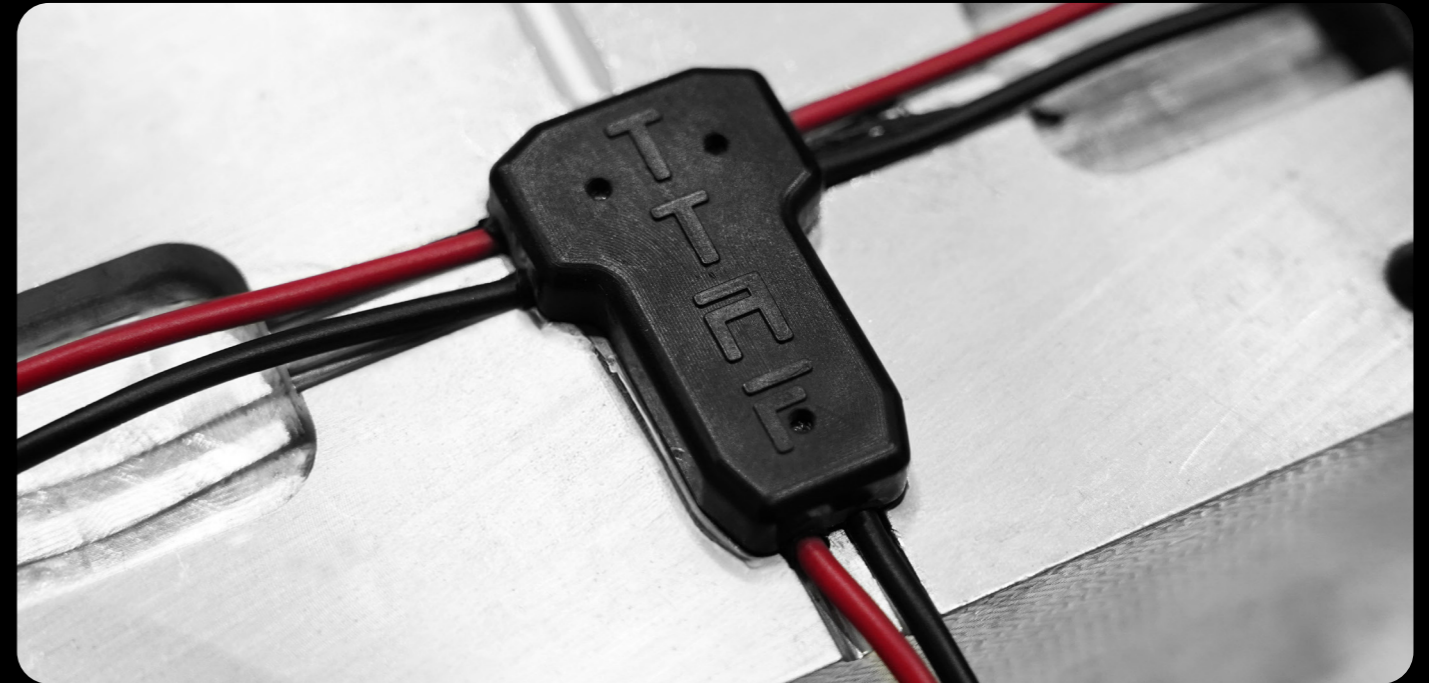
TTAF, established in Istanbul in 2003, is a specialized organization that has gained trust and admiration both in Turkey and worldwide with its custom product designs and solutions tailored to various needs, particularly in advanced technology connection elements and cable bundling.

With over a quarter-century of experience and expertise, TTAF aims to provide its customers with the highest quality products through its state-of-the-art machinery and superior service approach. It offers a wide range of complete system solutions and exports to 70 countries.

Operating under the principle of "Customer Satisfaction First," TTAF continues its production activities at its facilities in Istanbul.



## We Design, Develop & Manufacture.





## Low Pressure Molding

Low Pressure Molding (Low Pressure) is different from traditional injection molding. As the name suggests, the applied parts are molded at lower pressures, allowing for the precise molding and protection of special electronic devices without damage. In the low-pressure molding process, it involves placing bare, unprotected PCBs and cable assemblies carefully prepared into the mold and then filling them with low-pressure molding material.

## Why Low-Pressure Molding?

- It does not damage sensitive products.
- It has low viscosity thermoplastic.
- It is sealed against dirt, dust, and moisture.

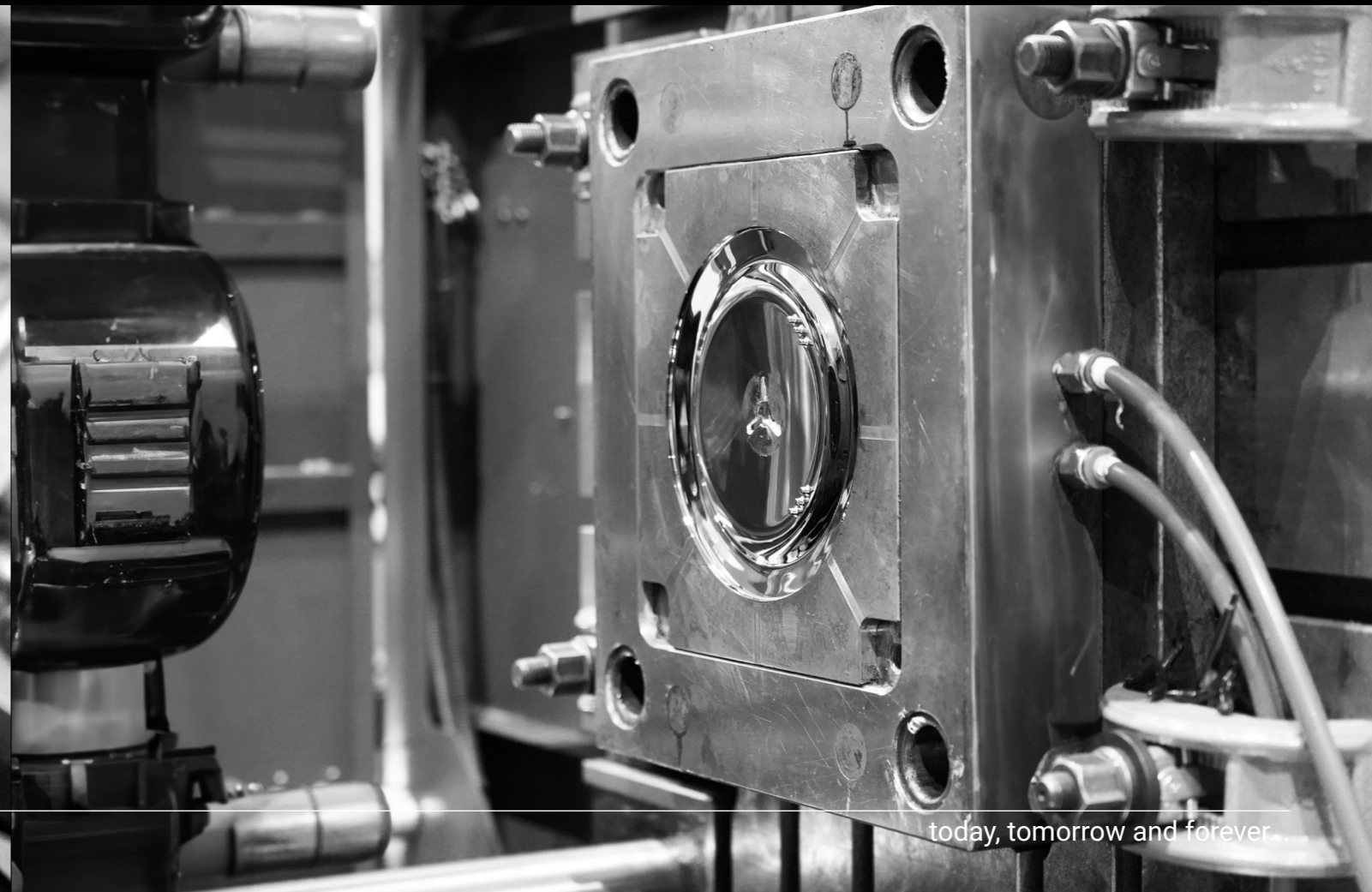


## Horizontal Injection

Horizontal Injection is a method of obtaining products by injecting melted plastic materials into horizontally connected molds in machines with low and high injection tonnages, followed by cooling and solidifying. The Horizontal Injection system offers suitability for automation, eliminates the need for post-processing, provides the possibility of high-speed and high-volume production, and allows for the production of parts in different surface finishes, colors, and shapes. It also enables the production of high-volume products in the same mold.

## Vertical Injection

It is a superior solution for providing insulation for cable assemblies and connectors against challenging end-use environments. Whether it is for a medical application requiring sterilization or for a connector requiring effective voltage reduction, it is used.



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# DATA CABLES



# DATA CABLES



D-01  
USB-A/2.0 MALE



D-02  
USB-A/2.0 MALE



D-03  
USB-A/2.0 MALE



D-04  
USB-A/2.0 90° MALE



D-05  
USB-A/2.0 MALE



D-06  
USB-A/2.0 FEMALE



D-07  
USB-A/2.0 MALE



D-08  
USB-A/2.0 FEMALE



D-09  
USB-A/2.0 MALE

## DATA CABLES



## DATA CABLES



D-10  
USB-A/2.0 FEMALE



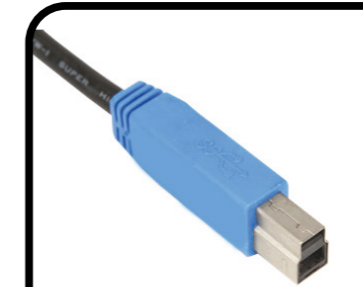
T-CHR-10-2  
USB-A/2.0 MALE  
METAL



T-CHR-10-3  
USB-A/2.0 MALE



D-16  
USB-A/3.0 MALE



D-17  
USB-B/3.0 MALE



D-18  
RJ11



T-CHR-10-4  
USB-A/2.0 MALE



D-11  
USB-A/2.0 FEMALE  
PANEL TYPE



D-12  
USB-B/2.0 FEMALE  
PANEL TYPE



D-19  
RJ12



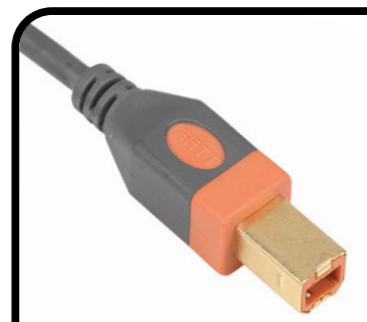
D-20  
RJ45 METAL



D-21  
RJ45



D-13  
USB-A/2.0 FEMALE  
PANEL TYPE



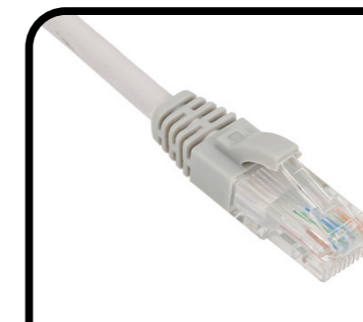
D-14  
USB-B/2.0 MALE



D-15  
USB-B/2.0 MALE



D-22  
RJ45



D-23  
RJ45

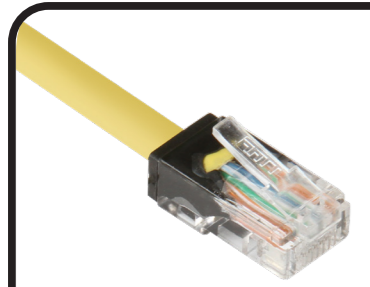


D-24  
SHORT MOLD

## DATA CABLES



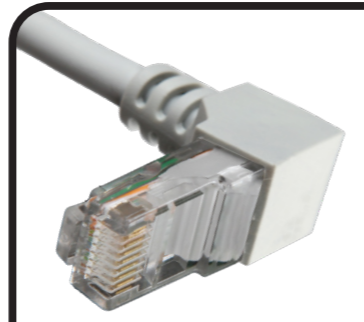
## DATA CABLES



D-25  
RJ45  
SHORT MOLD



D-26  
RJ45 90°  
UP DIRECTION



D-27  
RJ45 90°  
DOWN DIRECTION



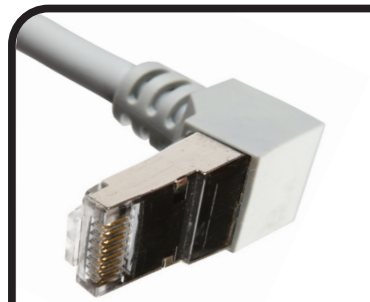
D-34  
D-SUB / 15 PIN  
MALE



D-35  
D-SUB / 15 PIN  
FEMALE



D-36  
D-SUB / 25 PIN  
MALE



D-28  
RJ45 90° METAL  
DOWN DIRECTION



D-29  
RJ45 90° METAL  
UP DIRECTION



D-30  
VGA / 15 PIN



D-37  
D-SUB / 25 PIN  
FEMALE



D-38  
D-SUB / 25 PIN  
MALE



D-39  
D-SUB / 25 PIN  
FEMALE



D-31  
VGA / 15 PIN



D-32  
D-SUB / 9 PIN  
MALE



D-33  
D-SUB / 9 PIN  
FEMALE

# DATA CABLES



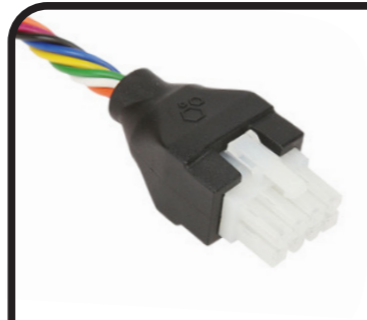
# CHARGING AND DATA CABLES



D-40  
MINI-FIT 2 PIN  
MALE



D-41  
MINI-FIT 2 PIN  
FEMALE



D-42  
MINI-FIT 8 PIN  
MALE



D-43  
MINI-FIT 8 PIN  
FEMALE



D-44  
MINI-FIT 24 PIN  
MALE



D-45  
MINI-FIT 24 PIN  
FEMALE





# CHARGING AND DATA CABLES



# CHARGING AND DATA CABLES



D-46  
MINI USB



D-47  
MINI USB



D-48  
MINI USB



T-CHR-05-04  
MICRO USB METAL



T-CHR-06-1  
TYPE-C METAL



T-CHR-06-02  
TYPE-C



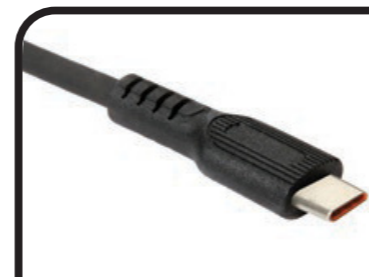
D-49  
MINI USB



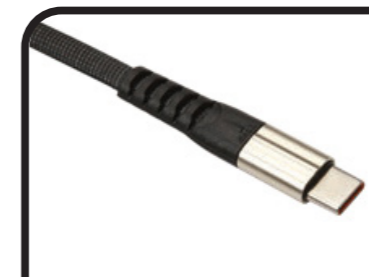
D-50  
MICRO USB



D-51  
MICRO USB



T-CHR-06-3  
TYPE-C



T-CHR-06-4  
TYPE-C METAL



T-CHR-05-01  
MICRO USB METAL



T-CHR-05-2  
MICRO USB



T-CHR-05-03  
MICRO USB

# CHARGING AND DATA CABLES



# AUDIO AND VIDEO CABLES



T-CHR-07-01  
LIGHTNING METAL



T-CHR-06-02  
LIGHTNING



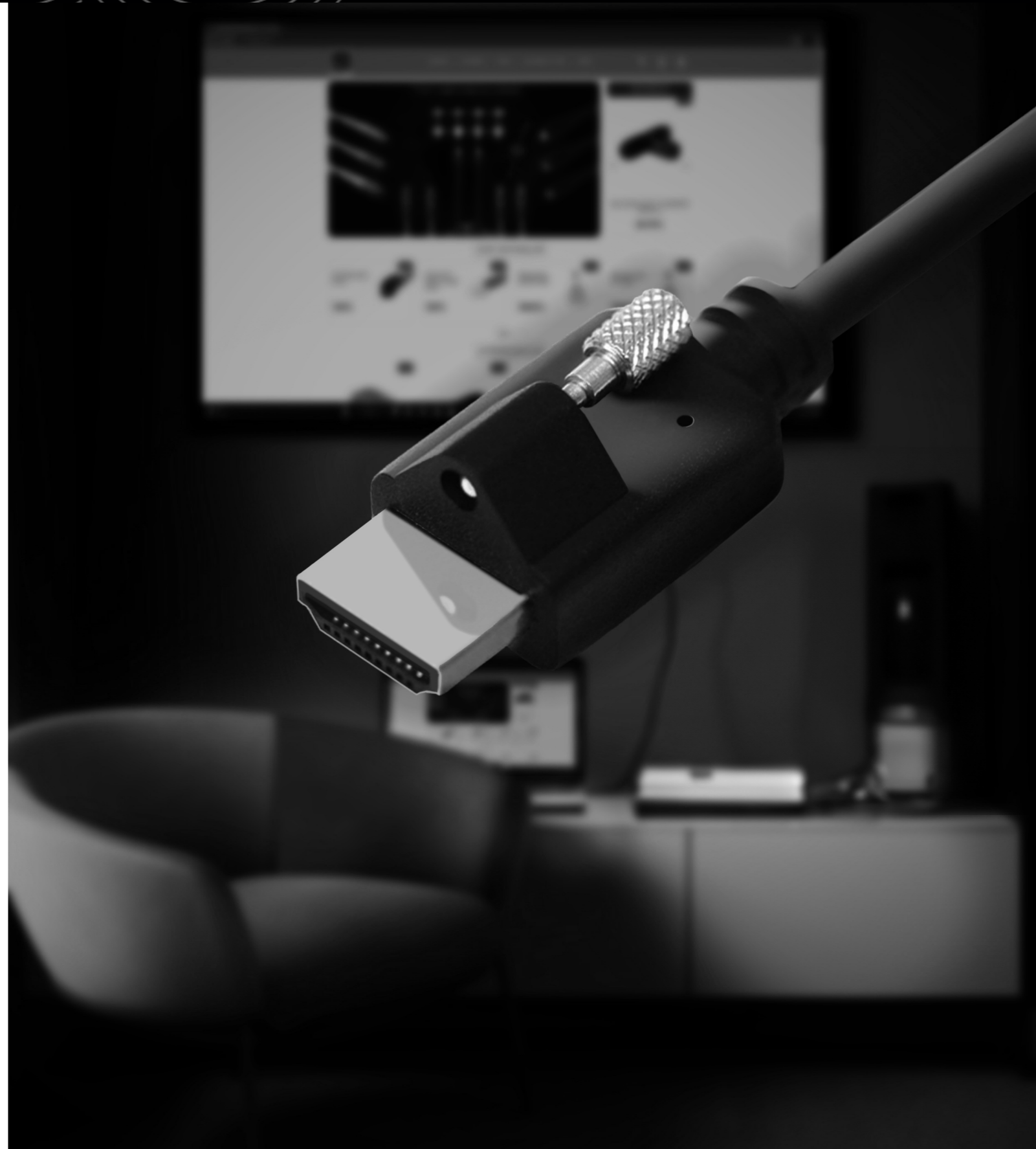
T-CHR-07-03  
LIGHTNING



T-CHR-07-04  
LIGHTNING METAL



D-52  
LIGHTNING



# AUDIO AND VIDEO CABLES



# AUDIO AND VIDEO CABLES



AV-01  
HDMI



AV-02  
HDMI



AV-03  
HDMI FEMALE



AV-10  
SCART



AV-11  
SCART



AV-12  
TV ANTENNA



AV-04  
HDMI



AV-05  
HDMI



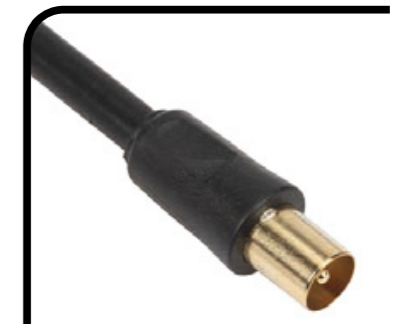
AV-06  
HDMI



AV-13  
TV ANTENNA 90°



AV-14  
TV ANTENNA



AV-15  
TV ANTENNA



AV-07  
SCREWED HDMI



AV-08  
HDMI 90°



AV-09  
MINI HDMI



AV-16  
BNC



AV-17  
BNC  
FIELD ASSEMBLY



AV-18  
F CONNECTOR

# AUDIO AND VIDEO CABLES



# AUDIO AND VIDEO CABLES



AV-19  
RCA



AV-20  
RCA



AV-21  
RCA



AV-28  
DC 3.5 STEREO



AV-29  
DC 3.5 STEREO



AV-30  
DC 3.5 STEREO  
FEMALE



AV-22  
RCA



AV-23  
RCA



AV-24  
RCA



AV-31  
DC 3.5 STEREO



AV-32  
DC 3.5 STEREO



AV-33  
DC 3.5 STEREO



AV-25  
RCA FEMALE



AV-26  
DC 2.5 STEREO  
MALE



AV-27  
DC 2.5 STEREO  
FEMALE



AV-34  
TOSLINK



AV-35  
TOSLINK  
NANO



AV-36  
DC 5.5

# WATERPROOF CABLES



# WATERPROOF CABLES



WP-01  
SUPERSEAL 2 PIN  
MALE



WP-02  
SUPERSEAL 2 PIN  
FEMALE



WP-03  
SUPERSEAL 3 PIN  
MALE



WP-04  
SUPERSEAL 3 PIN  
FEMALE



WP-05  
SUPERSEAL 3 PIN°90  
FEMALE



WP-06  
SUPERSEAL 4 PIN  
MALE



WP-07  
SUPERSEAL 4 PIN  
FEMALE



WP-08  
SUPERSEAL 5 PIN  
FEMALE



WP-09  
SUPERSEAL 5 PIN  
FEMALE

# WATERPROOF CABLES



# WATERPROOF CABLES



WP-10  
WATERPROOF HDMI  
OD: Ø33,95mm



WP-11  
WATERPROOF HDMI  
OD: Ø31,21mm



WP-12  
WATERPROOF VGA



WP-19  
2 PIN MINI CIRCULAR  
FEMALE/MALE  
OD: Ø8,20mm



WP-20  
3-9 PIN MIC  
CONNECTOR  
FEMALE/MALE  
OD: Ø8,20mm



WP-21  
3-9 PIN MIC  
CONNECTOR  
FEMALE/MALE  
OD: Ø13,00mm



WP-13  
2 PIN MINI CIRCULAR  
FEMALE/MALE  
OD: Ø10,50mm



WP-14  
3 PIN MINI CIRCULAR  
FEMALE/MALE  
OD: Ø10,50mm



WP-15  
4 PIN MINI CIRCULAR  
FEMALE/MALE  
OD: Ø10,50mm



WP-22  
2-9 PIN MIC  
CONNECTOR °90  
OD: Ø13,00mm



WP-23  
2-7 PIN MINI MIC  
CONNECTOR  
FEMALE/MALE  
OD: Ø13,00mm



WP-24  
2-7 PIN MINI MIC  
CONNECTOR °90  
OD: Ø13,00mm



WP-16  
2 PIN MINI CIRCULAR  
FEMALE/MALE  
OD: Ø15,00mm



WP-17  
3 PIN MINI CIRCULAR  
FEMALE/MALE  
OD: Ø15,00mm



WP-18  
4 PIN MINI CIRCULAR  
FEMALE/MALE  
OD: Ø15,00mm



WP-25  
AISG CONNECTOR  
FEMALE/MALE  
OD: Ø18,50mm



WP-26  
4 PIN MICRO FIT

# WATERPROOF CABLES



# WATERPROOF CABLES



WP-27  
WATERPROOF RJ45  
OD: Ø38,15mm



WP-28  
WATERPROOF RJ45  
OD: Ø42,17mm



WP-29  
2 PIN  
T ADAPTER



WP-36  
SUPERSEAL 3 PIN  
Y ADAPTER



WP-37  
ON/OFF SWITCH  
ADAPTER



WP-38  
MILITARY  
CONNECTOR  
OD: Ø25,50mm



WP-30  
4 PIN MICROFIT  
T ADAPTER



WP-31  
MAXI BLADE FUSE TYPE  
PIN DISTANCE: 13.5 mm



WP-32  
MINI BLADE FUSE TYPE  
PIN DISTANCE: 4 mm



WP-39  
MILITARY  
CONNECTOR  
OD: Ø14,70mm



WP-40  
3 PIN  
SENSOR  
CONNECTOR



WP-33  
T ADAPTER  
OD: 2,5mm



WP-34  
T ADAPTER  
OD:5,5mm

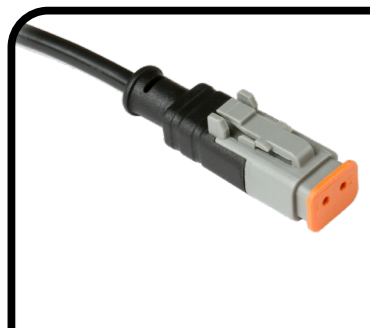


WP-35  
T ADAPTER  
OD: 6-13 mm

# WATERPROOF CABLES



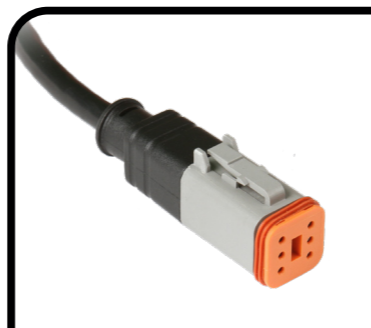
# POWER CABLES



WP-40  
WATERPROOF  
CONNECTOR  
2 PIN MALE



WP-41  
WATERPROOF  
CONNECTOR  
4 PIN MALE



WP-42  
WATERPROOF  
CONNECTOR  
6 PIN MALE



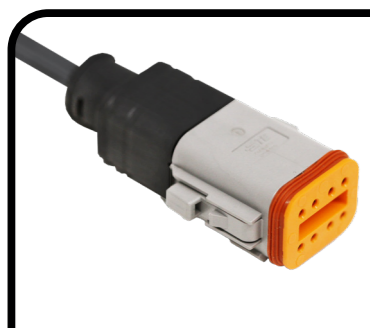
WP-43  
WATERPROOF  
CONNECTOR  
2 PIN FEMALE



WP-44  
WATERPROOF  
CONNECTOR  
4 PIN FEMALE



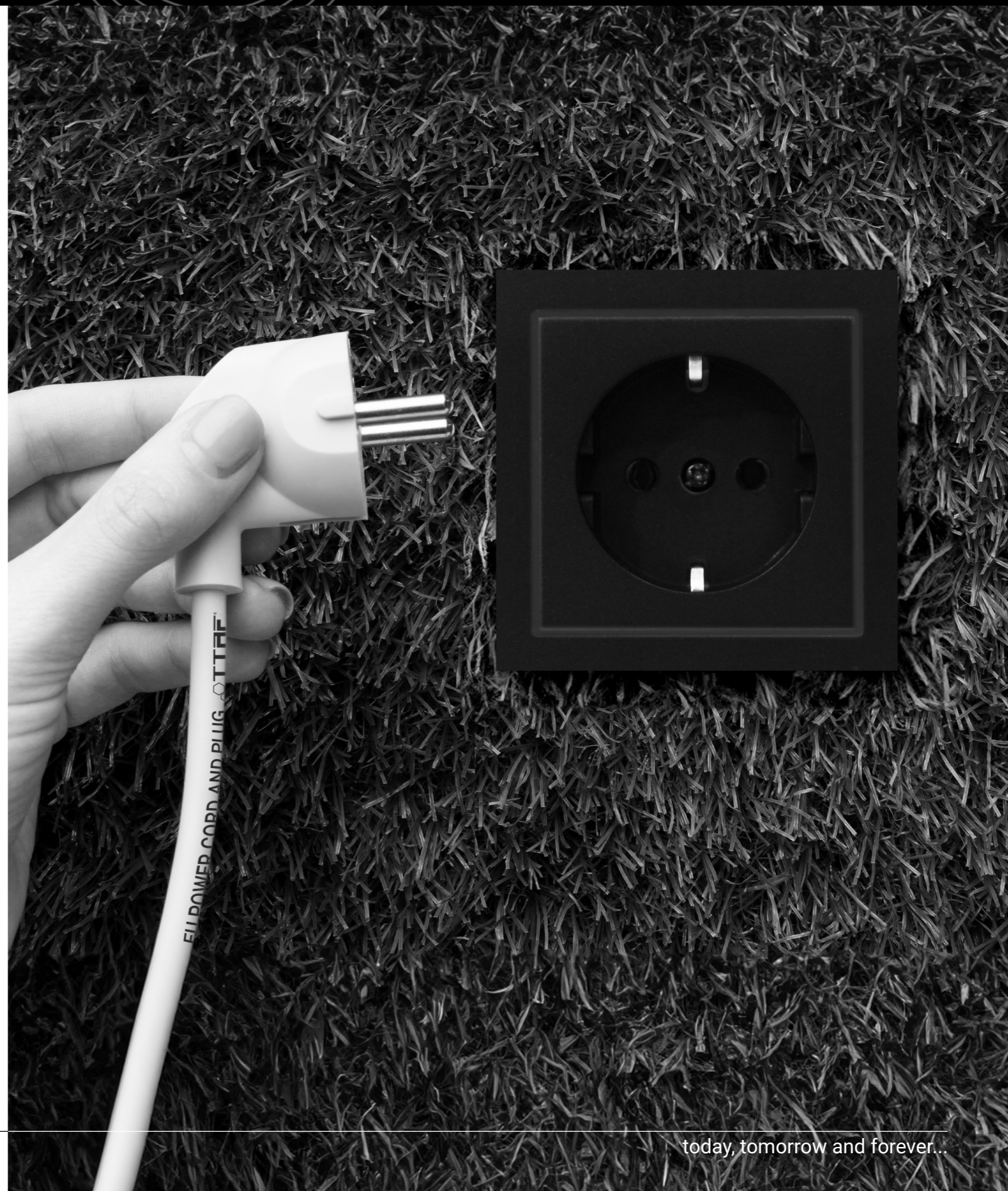
WP-45  
WATERPROOF  
CONNECTOR  
6 PIN FEMALE



WP-46  
WATERPROOF  
CONNECTOR  
8 PIN MALE



WP-47  
WATERPROOF  
CONNECTOR  
8 PIN FEMALE





## POWER CABLES



## POWER CABLES



P-01  
CEE 7/16 EU. PLUG



P-02  
SCHUKO CEE7/17  
EU. PLUG



P-03  
US. PLUG



P-07  
C19 FEMALE



P-08  
C20 MALE



P-09  
3 PIN POWER CABLE  
MALE  
OD: Ø33,00mm



P-04  
C7 PLUG



P-05  
C13 PLUG FEMALE



P-06  
C14 PLUG FEMALE



P-10  
3 PIN POWER CABLE  
FEMALE  
OD: Ø29,18mm

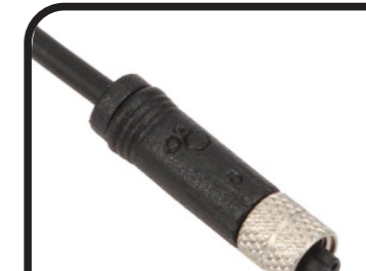
# SIGNAL CABLES



# SIGNAL CABLES



S-01  
M5 - 4 PIN MALE



S-02  
M5 - 4 PIN FEMALE



S-03  
M5 - 4 PIN 90° MALE



S-04  
M5 - 4 PIN 90°  
FEMALE



S-05  
M6 - 2,3,4,5,6 PIN  
MALE



S-06  
M6 - 2,3,4,5,6 PIN  
FEMALE



S-07  
M8 - 2,3,4,5,6 PIN  
MALE



S-08  
M8 - 2,3,4,5,6 PIN  
FEMALE



S-09  
M8 - 2,3,4 PIN  
T SPLITTER

# SIGNAL CABLES



# SIGNAL CABLES



S-10  
M8 - 2,3,4 PIN MALE



S-11  
M8 - 2,3,4 PIN FEMALE



S-12  
M8 - 2,3,4 PIN 90° MALE



S-19  
M12 - 2-8 PIN 90° FEMALE/MALE



S-20  
M12 CAT CABLE 4-8 PIN 90°



D-21  
M12 8 PIN X CODE



S-13  
M8 - 2,3,4 PIN 90° FEMALE



S-14  
M9 - 6 PIN FEMALE - MALE 2 POWER + 4 SIGNAL



S-15  
M10 - 6 PIN FEMALE - MALE



S-22  
M12 CAT CABLE 4-8 PIN



S-23  
M15 MALE 19 PIN CONNECTOR 90°



S-24  
9 PIN DIN FEMALE - MALE CONNECTOR



S-16  
M10 - 9 PIN FEMALE - MALE 3 POWER + 6 SIGNAL



S-17  
M12 - 2-12 PIN FEMALE



S-18  
M12 - 2-12 PIN MALE



S-25  
2 PIN MAGNETIC CONNECTOR



S-26  
4 PIN MAGNETIC CONNECTOR



S-27  
5 PIN MAGNETIC CONNECTOR

# OTHER PRODUCTS



# OTHER PRODUCTS



O-01  
USB PCB MOLD



O-02  
FERRITE  
Ø17,50X28,8 mm



O-03  
FERRITE  
Ø14X28,40 mm



O-04  
FERRITE  
Ø16x16 mm



O-05  
FERRITE  
Ø11,9x13 mm



O-06  
CABLE SPLITTER  
Ø16.70 mm



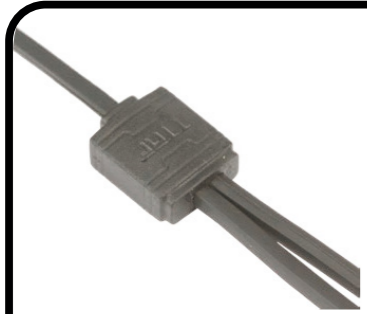
O-07  
CABLE SPLITTER  
Ø14,88 mm



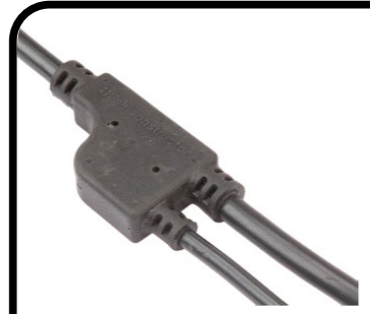
WP-08  
CABLE SPLITTER  
Ø13,54 mm



O-09  
CABLE SPLITTER  
Ø9,90 mm



O-10  
CABLE SPLITTER  
OD:3,8 mm



O-11  
CABLE SPLITTER



O-12  
CABLE SPLITTER  
OD:3,8X4 mm



O-19  
VOLANS CABLE  
HOLDER



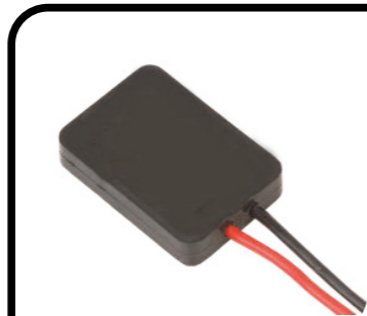
O-20  
VOLANS 90°  
CABLE HOLDER



O-13  
GROMMET  
OD:3,8 mm



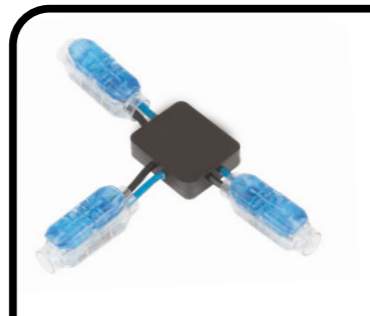
O-14  
CABLE GLAND  
OD: 5,5 mm



O-15  
SENSOR  
LOW PRESSURE



O-16  
GROMMET  
90°



O-17  
T SPLITTER  
MODULE



O-18  
T SPLITTER  
MODULE

# MACHINE LINE



# MACHINE LINE



LOW-PRESSURE INJECTION MACHINE



VERTICAL INJECTION MACHINE



CNC SLIDING VENDING MACHINE



CNC



HORIZONTAL INJECTION MACHINE



LATHE



UNIVERSAL FREZE



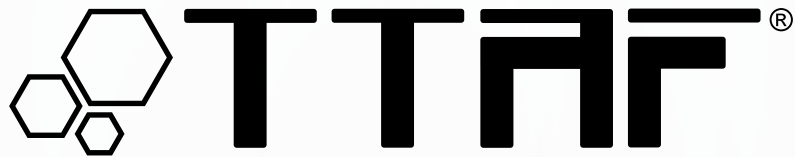
SURFACE GRINDING



SUBDUCTION EROSION



DRILL MACHINES



## OVERMOLDING SOLUTIONS

2024-v2