

OVERMOLDING SOLUTIONS





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Who Are We ?

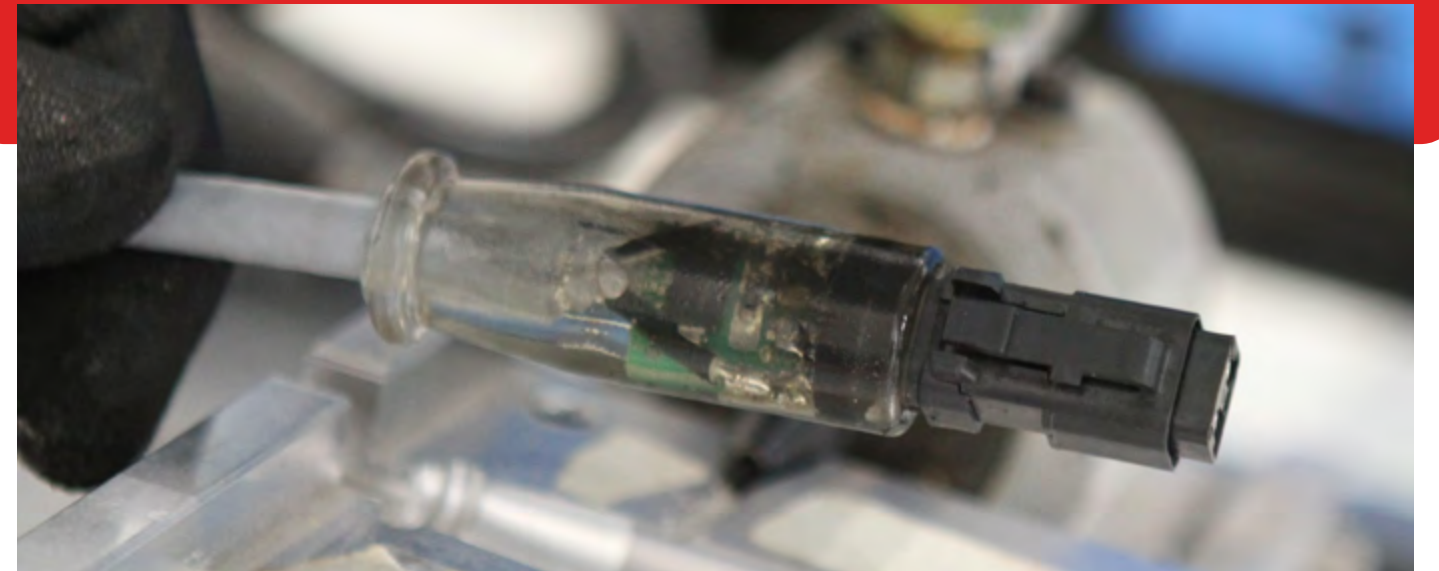
TTAF, founded in Istanbul in 2003, is a specialized organization that has gained trust and admiration both in Turkey and worldwide with its custom product designs and solutions for different needs in advanced technology connection elements, cable assemblies, plastic injection, fiber solutions, and professional lighting applications.

With over a quarter-century of experience and accumulation, the aim of TTAF is to provide its customers with the highest quality products with its state-of-the-art machinery and superior service approach, providing complete system solutions that extend to telecommunications, defense industry, aerospace, automotive, and lighting solutions, and exporting to 70 countries.

TTAF continues its production activities in Istanbul and Bursa facilities based on the principle of "customer satisfaction first."



We Design, Develop & Manufacture.





Our History Timeline

1990	Former company Elektromar started connector sales.
2003	TTAF factory was established.
2006	TTAF China Shenzhen office was established.
2012	TTAF started fiber optic production.
2015	TTAF started lighting production.
2021	Rise-X start-up investment was made. FOBOS plastic factory established. GTOT 3D metal printer design started. DOGON Design started designing electrical car.
2022	Futurexpress was founded.
2023	Pangea was founded.



Group Companies



Locations



TTAF ELEKTRONİK

Kavaklı, İstanbul Cd. No:21, 34520
Beylikdüzü Osb/Beylikdüzü/İstanbul
www.ttaf.com.tr

GTOT

Kavaklı, İstanbul Cd. No:21, 34520
Beylikdüzü Osb/Beylikdüzü/İstanbul
www.gtot.ttaf.com.tr

FOBOS PLASTİK

Osmangazi Mah. 2684.Sok. No:7 İç
Kapı No:Z1 34522/Esenyurt/İstanbul
www.fobos.com.tr

RISE-X TECHNOLOGY

Sanayi, Teknopark Blv No: 1 D:9A,
34906 Pendik/İstanbul
www.risex.ttaf.com.tr

FUTUREXPRESS

Sanayi, Teknopark Blv No: 1 D:9A,
34906 Pendik/İstanbul
www.futurexpress.com.tr

DOGON DIZAYN

Düldane mah. İstanbul cd. No:850
Osmangazi/Bursa
www.dogon.com.tr

TTAF SHENZHEN OFFICE

9th Floor, 3rd Building, Jianghao
Industrial District, Shenzhen/
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www.ttaf.com.tr

PANGEA

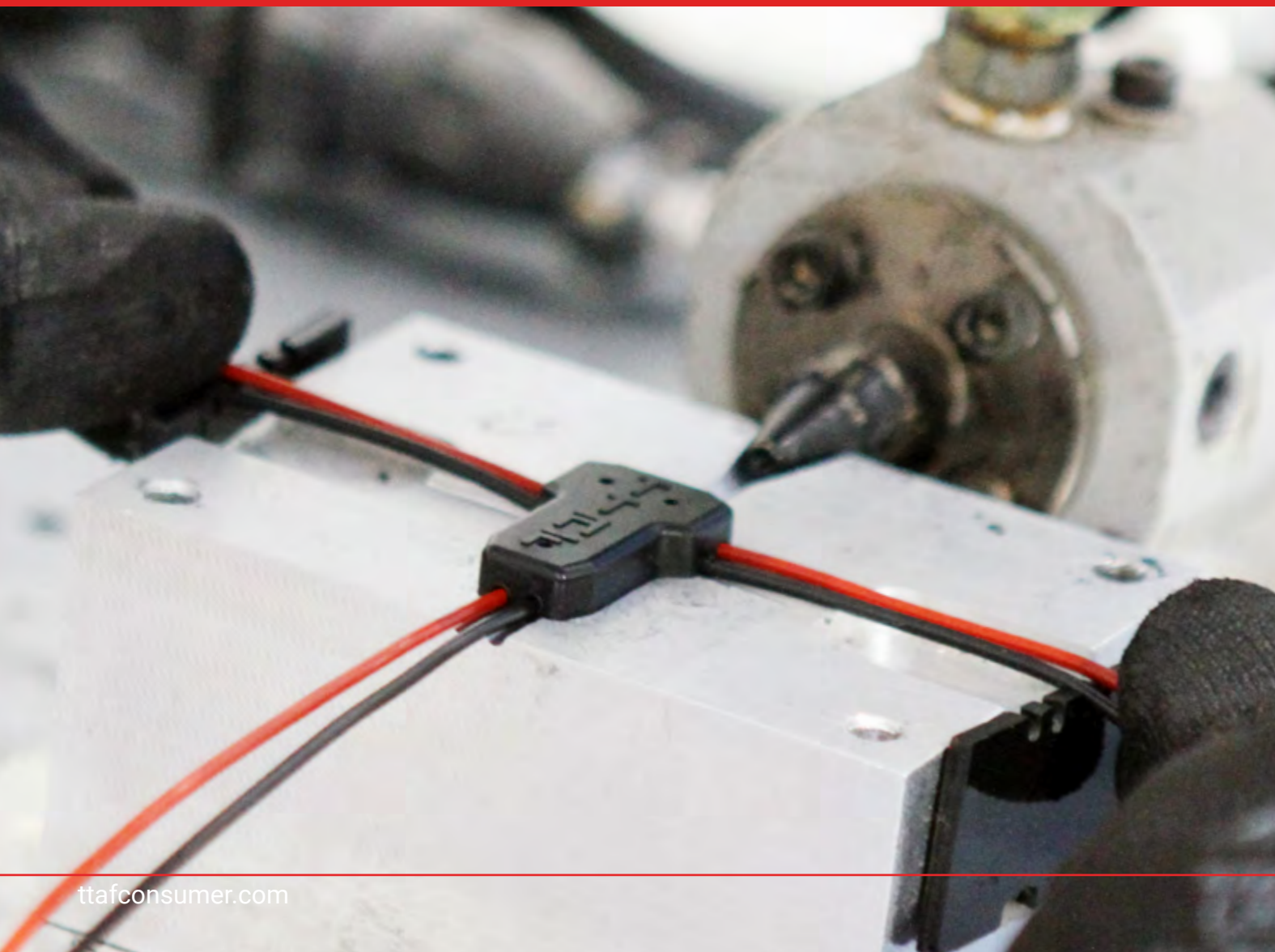
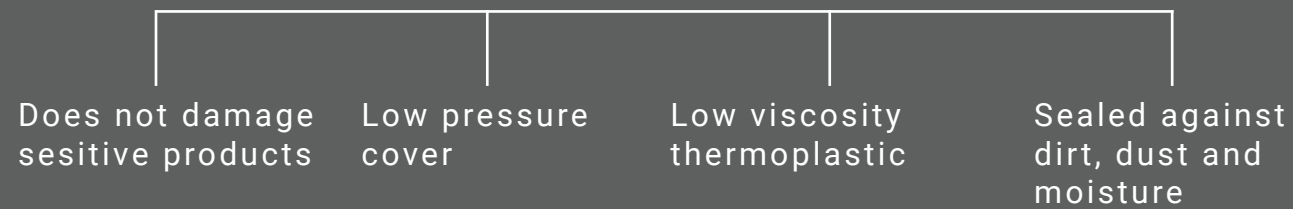
9854 National Blvd300,90034
California/Los Angeles/USA
www.pangeatech.com.cc



Low Pressure Molding

Low Pressure Molding (LPM) is different from traditional injection molding. As the name suggests, applied parts are molded at lower pressures, allowing precision for gentle encapsulation of delicate electronic assemblies to be molded and protected without damage. The overmolding process involves loading bare, unshielded PCBs and cable assemblies into a precision-crafted die tooling tool, then filling the cavity with the appropriate low-pressure molding material.

Why Low Pressure Molding?

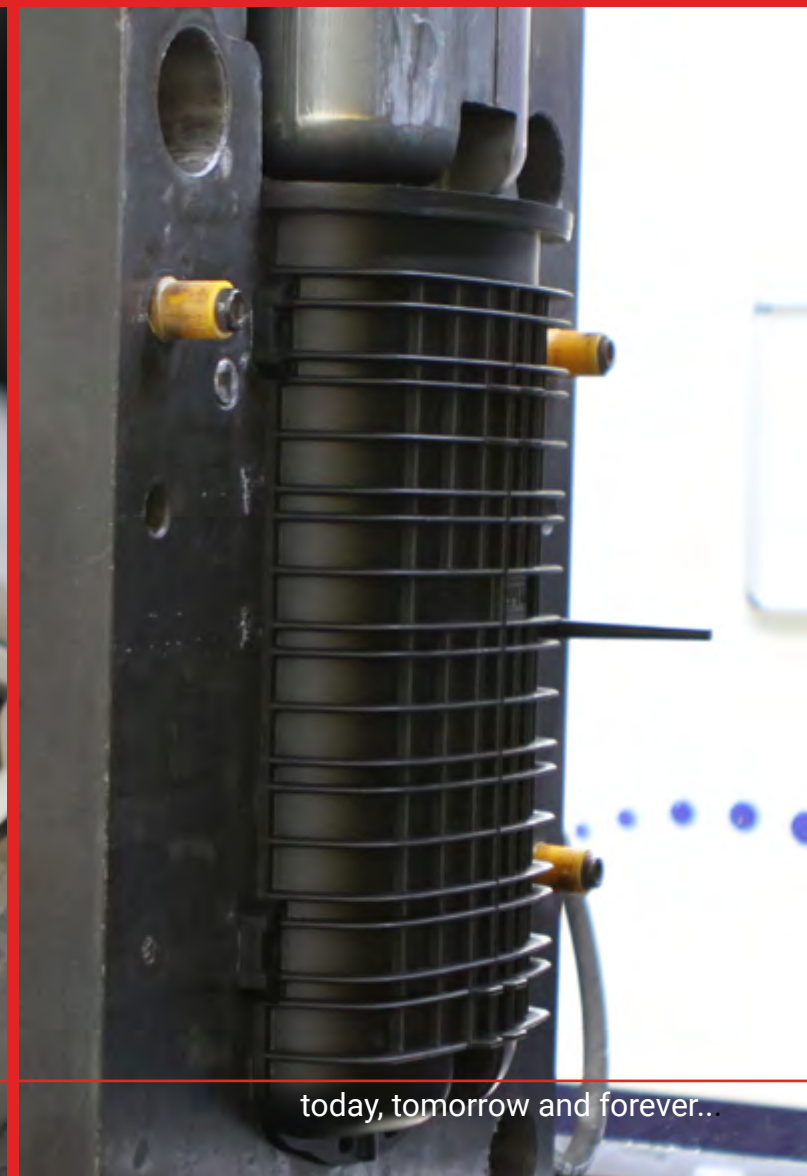
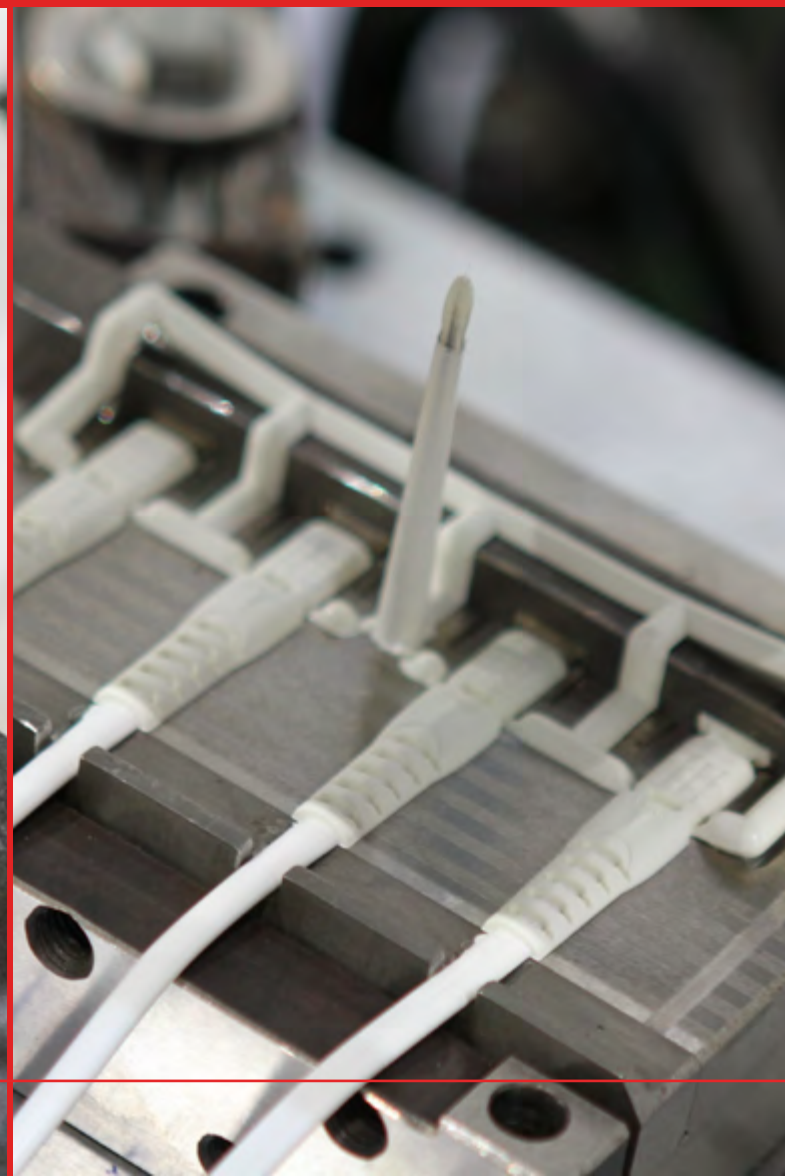


Overmolding

A superior solution for sealing cable assemblies and connectors against rugged end-use environments. Whether it's a medical application that requires sterilization or a connector that requires effective strain relief.

Horizontal Injection

Horizontal Injection is a method of obtaining products by cooling and solidifying after injecting heat-melted plastic materials into horizontally connected molds in machines with low and high injection tonnage. Horizontal Injection system It provides the opportunity to produce high number of products in the same mold with its suitability for automation, no need for post-processing process, production possibility at high speeds and high quantities, suitability for the production of parts with different surfaces, colors and shapes.





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



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



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-13
USB-A/2.0 FEMALE
PANEL TYPE



D-14
USB-B/2.0 MALE



D-15
USB-B/2.0 MALE



Data Cables



D-16
USB-A/3.0 MALE



D-17
USB-B/3.0 MALE



D-18
RJ11



D-19
RJ12



D-20
RJ45 METAL



D-21
RJ45



D-22
RJ45



D-23
RJ45



D-24
RJ 45 METAL
SHORT MOLD



Data Cables



D-25
RJ45
SHORT MOLD



D-26
RJ45 90°
UP DIRECTION



D-27
RJ45 90°
DOWN DIRECTION



D-28
RJ45 90° METAL
DOWN DIRECTION



D-29
RJ45 90° METAL
UP DIRECTION



D-30
VGA / 15 PIN



D-31
VGA / 15 PIN



D-32
D-SUB / 9 PIN
MALE



D-33
D-SUB / 9 PIN
FEMALE



Data Cables



D-34
D-SUB / 15 PIN
MALE



D-35
D-SUB / 15 PIN
FEMALE



D-36
D-SUB / 25 PIN
MALE



D-37
D-SUB / 25 PIN
FEMALE



D-38
D-SUB / 25 PIN
MALE



D-39
D-SUB / 25 PIN
FEMALE



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 Sync Cables





Charging And Data Sync Cables



D-46
MINI USB



D-47
MINI USB



D-48
MINI USB



D-49
MINI USB



D-50
MICRO USB



D-51
MICRO USB



T-CHR-05-01
MICRO USB METAL



T-CHR-05-2
MICRO USB



T-CHR-05-03
MICRO USB



Charging And Data Sync Cables



T-CHR-05-04
MICRO USB METAL



T-CHR-06-1
TYPE-C METAL



T-CHR-06-02
TYPE-C



T-CHR-06-3
TYPE-C



T-CHR-06-4
TYPE-C METAL



Charging And Data Sync 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 & Video Cables





Audio & Video Cables



AV-01
HDMI



AV-02
HDMI



AV-03
HDMI FEMALE



AV-04
HDMI



AV-05
HDMI



AV-6
HDMI



AV-7
SCREW HDMI



AV-08
HDMI 90°



AV-09
MINI HDMI



Audio & Video Cables



AV-10
SCART



AV-11
SCART



AV-12
TV ANTENNA



AV-13
TV ANTENNA 90°



AV-14
TV ANTENNA



AV-15
TV ANTENNA



AV-16
BNC



AV-17
BNC
FIELD ASSEMBLY



AV-18
F CONNECTOR



Audio & Video Cables



AV-19
RCA



AV-20
RCA



AV-21
RCA



AV-22
RCA



AV-23
RCA



AV-24
RCA



AV-25
RCA FEMALE



AV-26
DC 2.5 STEREO
MALE



AV-27
DC 2.5 STEREO
FEMALE



Audio & Video Cables



AV-28
DC 3.5 STEREO



AV-29
DC 3.5 STEREO



AV-30
DC 3.5 STEREO
FEMALE



AV-31
DC 3.5 STEREO



AV-32
DC 3.5 STEREO



AV-33
DC 3.5 STEREO



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
MALE



WP-09
SUPERSEAL 5 PIN
FEMALE



Waterproof Cables



WP-10
WATERPROOF HDMI
OD: Ø33,95mm



WP-11
WATERPROOF HDMI
OD: Ø31,21mm



WP-12
WATERPROOF VGA



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



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



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



Waterproof Cables



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



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



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



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



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



WP-26
4 PIN MICRO FIT



Waterproof Cables



WP-27
WATERPROOF RJ45
OD: Ø38,15mm



WP-28
WATERPROOF RJ45
OD: Ø42,17mm



WP-29
2 PIN
T ADAPTER



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-33
T ADAPTER
OD: 2,5mm



WP-34
T ADAPTER
OD: 5,5mm



WP-35
T ADAPTER
OD: 6-13 mm



Waterproof Cables



WP-36
SUPERSEAL 3 PIN
Y ADAPTER



WP-37
ON/OFF SWITCH
ADAPTER



WP-38
MILITARY CONNECTOR
OD: Ø25,50mm



WP-39
MILITARY CONNECTOR
OD: Ø14,70mm



WP-40
3 PIN
SENSOR CONNECTOR



Waterproof 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-04
C7 PLUG



P-05
C13 PLUG FEMALE



P-06
C14 PLUG FEMALE



Power Cables



P-07
C19 FEMALE



P-08
C20 MALE



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



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



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



S-17
M12 - 2-12 PIN FEMALE



S-18
M12 - 2-12 PIN MALE



Signal Cables



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-22
M12 CAT CABLE
4-8 PIN



S-23
M15 MALE 19 PIN CONNECTOR 90°



S-24
9 PIN DIN FEMALE / MALE CONNECTOR



S-25
2 PIN MAGNETIC CONNECTOR



S-26
4 PIN MAGNETIC CONNECTOR



S-27
5 PIN MAGNETIC CONNECTOR



Others



Others



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
SPLITTER
Ø16.70 mm



O-07
SPLITTER
Ø14,88 mm



WP-08
SPLITTER
Ø13,54 mm



O-09
SPLITTER
Ø9,90 mm



Others



O-10
SPLITTER
OD:3,8 mm



O-11
SPLITTER



O-12
SPLITTER
OD:3,8X4 mm



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



Others



O-19
VOLANS
CABLE HOLDER



O-20
VOLANS 90°
CABLE HOLDER



Machine Line



Low Pressure Injection Machine



Vertical Injection Molding Machine



Horizontal Injection Molding Machine



Universal Freze



Surface Grinding



Machine Line



CNC Machine



CNC



Lathe Machine



Immersion Erosion



Drill Machine

