



CONNECTOR SOLUTIONS



Turkey
Discover
the potential

2017 v1

CONNECTOR SOLUTIONS



TTAF Elektronik Ltd was founded in Istanbul /Turkey in 2003, providing interconnect solutions for defense, aerospace, automotive, industrial, telecom and led lighting applications including: Wiring harnesses, Cable Assemblies, Optical Fiber, Power, RF, Molded, Electromechanical Assemblies, Lighting Systems and IP rated outdoor solutions.

Servicing our diverse customers worldwide from our state of the art manufacturing facilities in Istanbul(6000sqm closed area) and Ankara(4000sqm closed area), TTAF is now a global interconnect solutions and cable assembly leader always valuing customer satisfaction.

After more than 30 years in the connector marketplace, TTAF capitalized to create own wire harness and cable assembly business offering wiring harness assemblies using optimum grade wire and other material with the help of cutting-edge machines in adherence to set electronic industry norms.

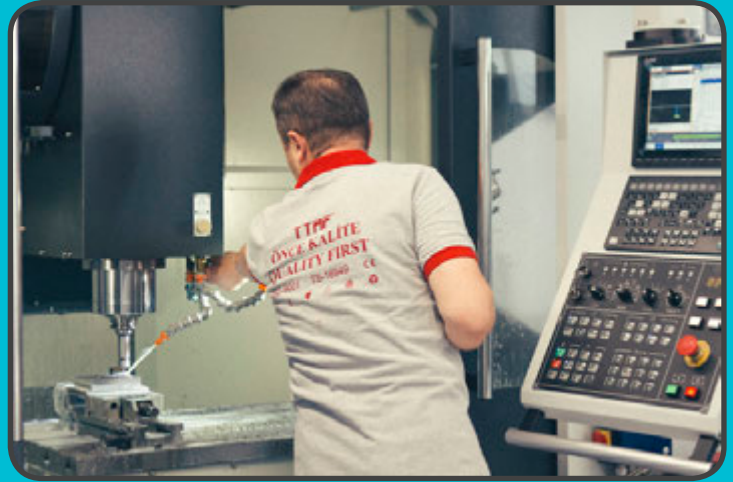
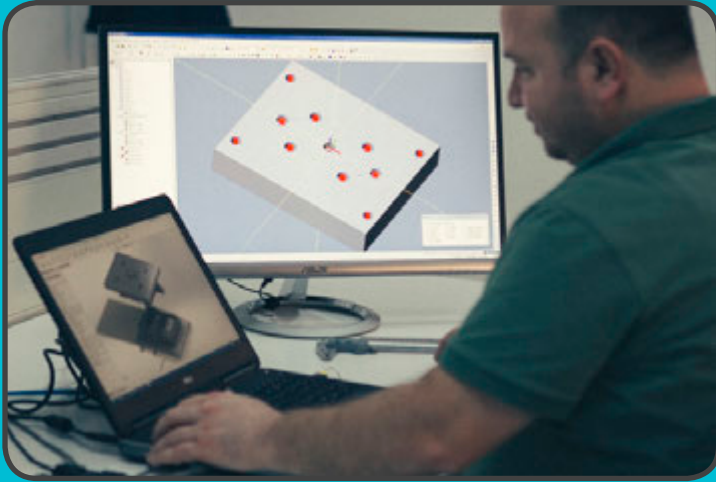
TTAF is ISO9001:2015, AS9100D, TSE, IPC/WHMA-A-620B, UL, CE, ATEX, ETL & 3P certified to meet even the most demanding quality standards.

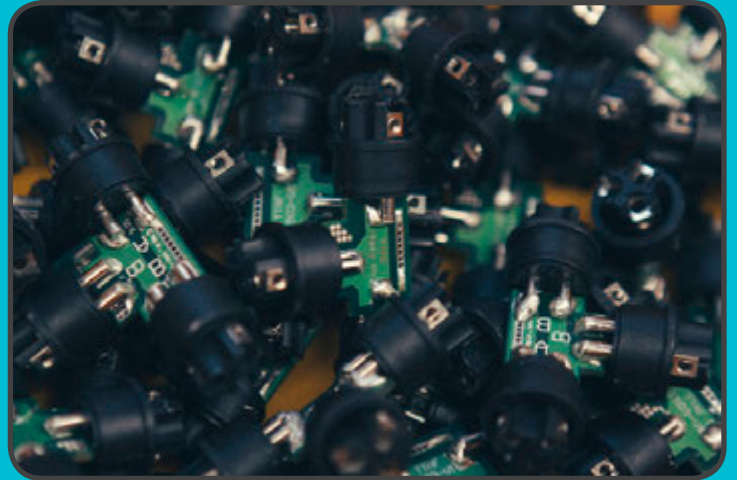


WPD Connectors and Electrical Splitters

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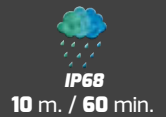
PRODUCTION, DESIGN AND TOOLING...





Connectors

2 pin
300 VAC
35A



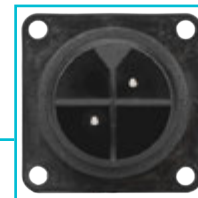
2 Pin Male Cable Type



2 Pin Female Cable Type



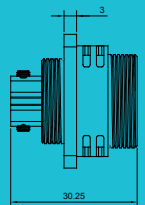
2 Pin Male Panel Type



GONTUANA®
Waterproof Connector Series

Product Codes

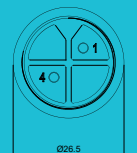
Number of Poles	2
Voltage Rating	300VAC max.
Current Rating	35A max.
Cable Cross Section Area	0,5mm ² ~ 2,5mm ²
Durability Voltage	3000VAC@60s.
Insulation Structure	500 MΩ at 500VDC
Contact Resistance	30 mΩ max.
Min Wire Size OD	5,5mm
Max Wire Size OD	8,5mm
Temperature Rating	-40°C ~ +85°C
IP Class	IP68 (10m/60min.)
Mold Material	PA6
Contact/Terminal Material	Nickel-Plated Brass
Seal Material	Silicone



Technical drawing of a box with a handle and a latch. The box is shown in a perspective view. The handle is on the left side, and the latch is on the right side. The dimensions are 1000mm in length and 52mm in width.

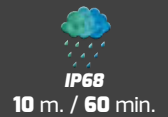


52

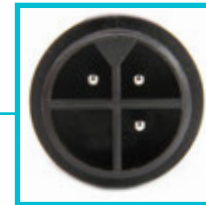


Connectors

3 pin
300 VAC
25A



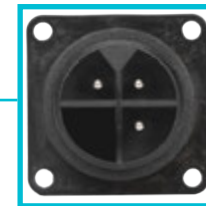
3 Pin Male Cable Type



3 Pin Female Cable Type



3 Pin Male Panel Type



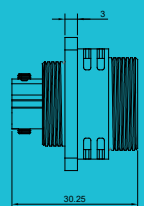
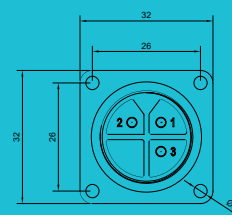
GONTUANA®
Waterproof Connector Series

Product Codes

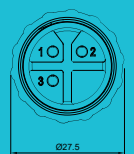
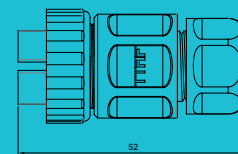
WPM-0300M25
WPF-0300M25
WPP-0300M25

Number of Poles	3
Voltage Rating	300VAC max.
Current Rating	25A max.
Cable Cross Section Area	0,5mm ² ~ 2,5mm ²
Durability Voltage	3000VAC@60s.
Insulation Structure	500 MΩ at 500VDC
Contact Resistance	30 mΩ max.
Min Wire Size OD	5,5mm
Max Wire Size OD	8,5mm
Temperature Rating	-40°C ~ +85°C
IP Class	IP68 (10m/60min.)
Mold Material	PA6
Contact/Terminal Material	Nickel-Plated Brass
Seal Material	Silicone

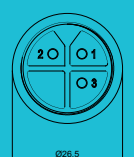
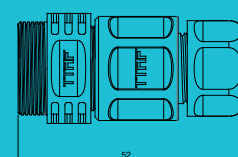
WPP-0300M25



WPF-0300M25



WPM-0300M25

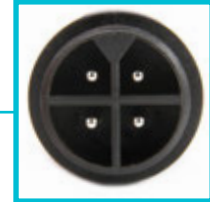


Connectors

4 pin
300 VAC
25A



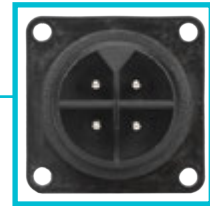
4 Pin Male Cable Type



4 Pin Female Cable Type



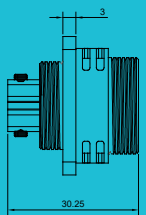
4 Pin Male Panel Type



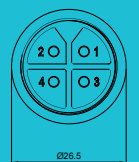
GONTUANA®
Waterproof Connector Series

Product Codes

4
300VAC max.
25A max.
0,5mm² ~ 2,5mm²
3000VAC@60s.
500 MΩ at 500VDC
30 mΩ max.
5,5mm
8,5mm
-40°C ~ +85°C
IP68 (10m/60min.)
PA6
Nickel-Plated Brass
Silicone



52



3 Pin I Type
Screw Connection
Field Assembly

Connector

3 pin
250 VAC
16A

WPI Series



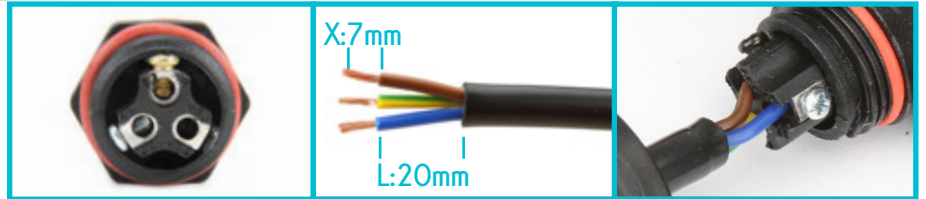
EN 60309-1
EN 60695-2
EN 61984-2009



IP68
1 m. / 30 min.



GONTUANA[®]
Waterproof Connector Series

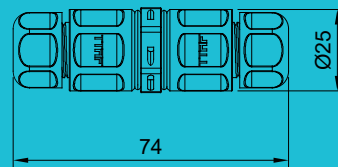
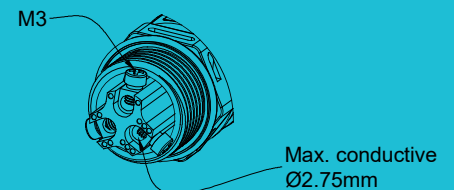


Technical Specifications

Number of Poles
Voltage Rating
Current Rating
Cable Cross Section Area
Durability Voltage
Insulation Structure
Contact Resistance
Min Wire Size OD
Max Wire Size OD
Temperature Rating
IP Class
Mold Material
Contact/Terminal Material
Seal Material

Product Code WPI-0302M16

3
250VAC max.
16A max.
0,5mm² ~ 2.5mm²
1500VAC@60s.
500 MΩ at 500VDC
10 mΩ max.
5,5mm
8,5mm
-40°C ~ +85°C
IP68 (1m/30min.)
PA6
Nickel-Plated Brass
Silicone



3 Pin I Type
Screw Connection
Field Assembly

Connectors

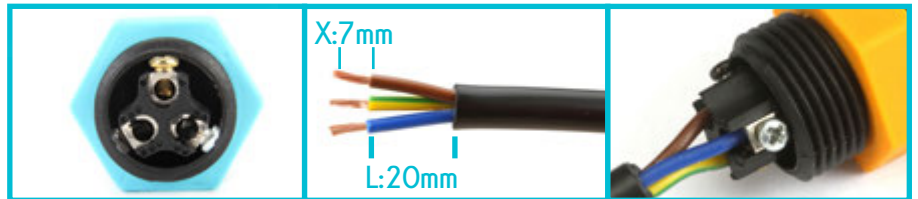
WPI Series

3 pin
250 VAC
16A


IP68
50m. / 60 min.



GONTUANA®
Waterproof Connector Series



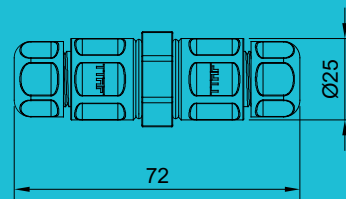
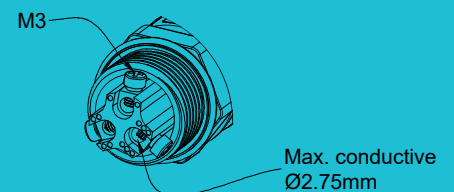
Technical Specifications

Number of Poles
Voltage Rating
Current Rating
Cable Cross Section Area
Durability Voltage
Insulation Structure
Contact Resistance
Min Wire Size OD
Max Wire Size OD
Temperature Rating
IP Class
Mold Material
Contact/Terminal Material

Product Codes

WPI-0302M16/U2 - Turquoise
WPI-0302M16/O2 - Orange

3
250VAC max.
16A max.
0,5mm² ~ 2,5mm²
1500VAC@60s.
500 MΩ at 500VDC
10 mΩ max.
5,5mm
8,5mm
-40°C ~ +85°C
IP68 (50m/60min.)
PA6
Nickel-Plated Brass



3 Pin I Type
Push in Wire
Field Assembly

Connector

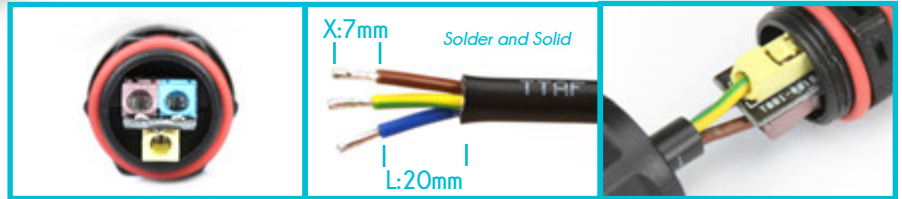
WPK Series

3 pin
250 VAC
6A


IP68
1 m. / 30 min.



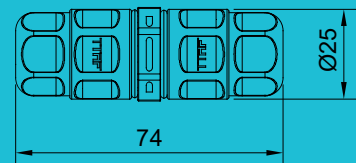
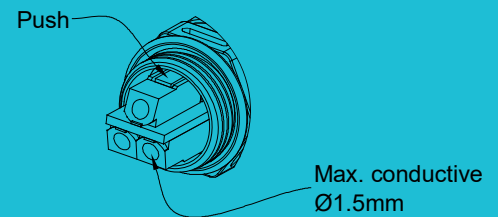
GONTUANA®
Waterproof Connector Series



Technical Specifications

Product Code WPK-0302M6

Number of Poles	3
Voltage Rating	250VAC max.
Current Rating	6A max.
Cable Cross Section Area	0,5mm ² ~ 1,5mm ²
Durability Voltage	1250VAC@60s.
Insulation Structure	1000 MΩ@1000V
Contact Resistance	12 mΩ
Min. Wire Size OD	5.5 mm
Max. Wire Size OD	8.5 mm
Operating Temperature	-40°C ~ +85°C
IP Class	IP68 (1m/30min.)
Mold Material	PA6
Terminal Type	Push Button Screwless Terminal
Contact Material	Phosphor Bronze, Tin-Plated
Seal Material	Silicone



3 Pin Panel Type
Screw Connection
Field Assembly

Connector

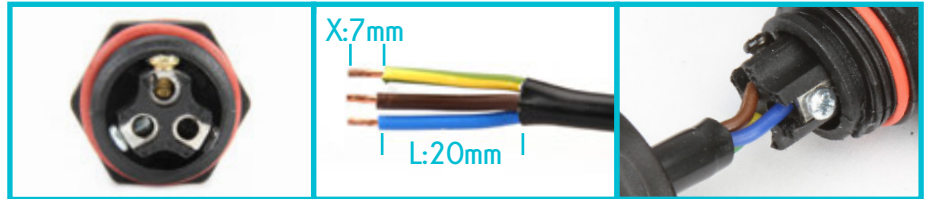
WPP Series

3 pin
250 VAC
16A


IP68
1 m. / 30 min.



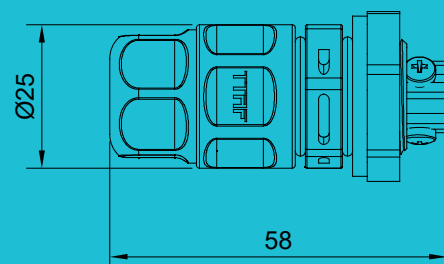
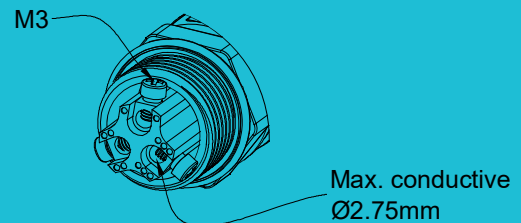
GONTUANA[®]
Waterproof Connector Series



Technical Specifications

Product Code WPP-0302M16

Number of Poles	3
Voltage Rating	250VAC max.
Current Rating	16A max.
Cable Cross Section Area	0,5mm ² ~ 2,5mm ²
Durability Voltage	1500VAC@60s.
Contact Resistance	10 mΩ max.
Insulation Structure	500 MΩ at 500VDC
Min Wire Size OD	5,5mm
Max Wire Size OD	8,5mm
Temperature Rating	-40°C ~ +85°C
IP Class	IP68 (1m/30min.)
Mold Material	PA6
Contact/Terminal Material	Nickel-Plated Brass
Seal Material	Silicone
Chasis Hole Dia	Ø16mm
Chasis max. Thickness	3,5mm



3 Pin T Type
Screw Connection
Field Assembly

Connector

3 pin
250 VAC
16A

WPT Series

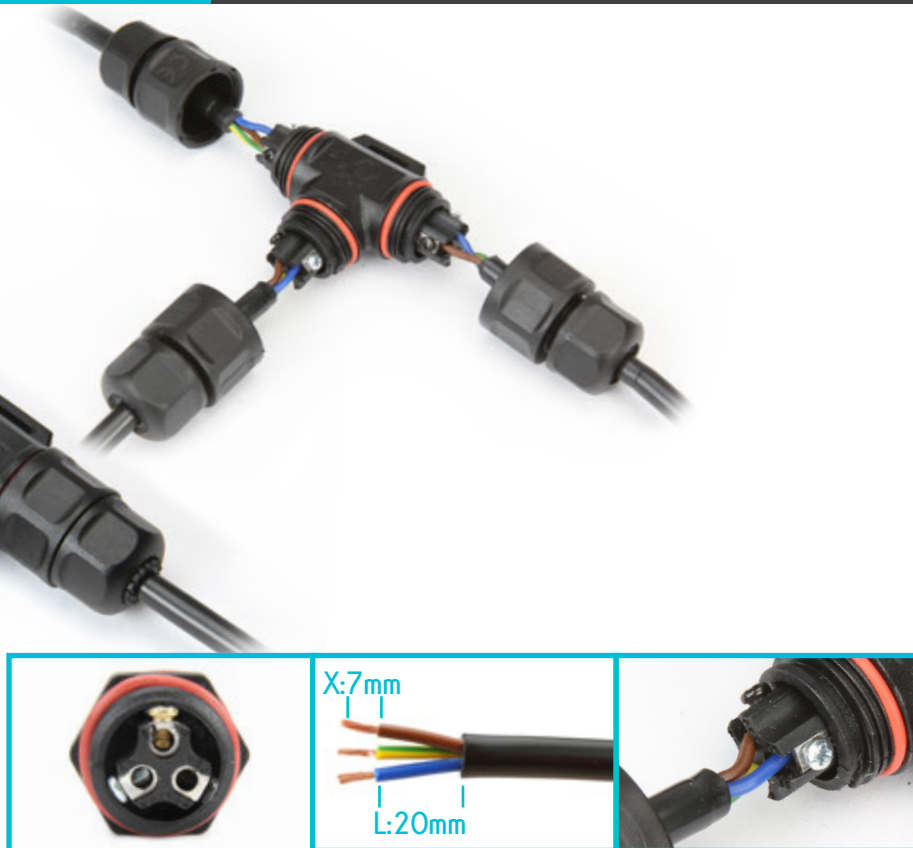


EN 60309-1
EN 60695-2
EN 61984-2009



IP68
1 m. / 30 min.

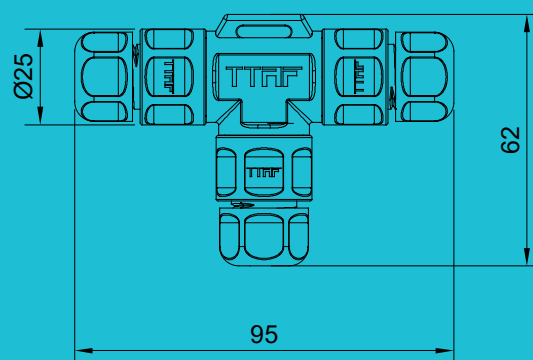
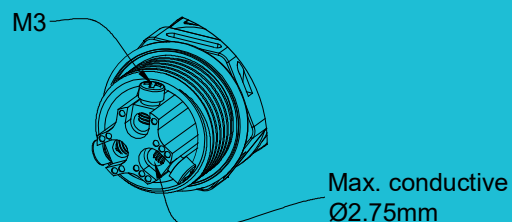
GONTUANA[®]
Waterproof Connector Series



Technical Specifications

Product Code WPT-0303M16

Number of Poles	3
Voltage Rating	250VAC max.
Current Rating	16A max.
Cable Cross Section Area	0,5mm ² ~ 2,5mm ²
Durability Voltage	1500VAC@60s.
Insulation Structure	500 MΩ at 500VDC
Contact Resistance	10 mΩ max.
Min Wire Size OD	5,5mm
Max Wire Size OD	8,5mm
Temperature Rating	-40°C ~ +85°C
IP Class	IP68 (1m/30min.)
Mold Material	PA6
Contact/Terminal Material	Nickel-Plated Brass
Seal Material	Silicone



6 Pin I Type
Screw Connection
Field Assembly

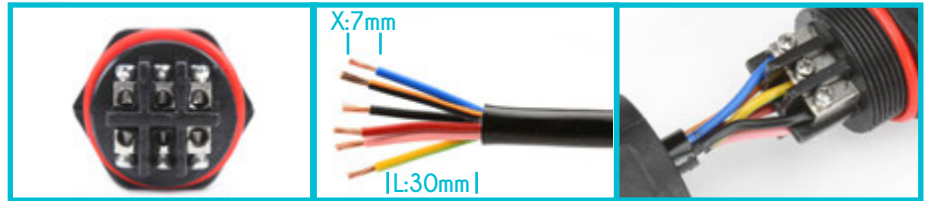
Connector

WPI Series

6 pin
250 VAC
25A



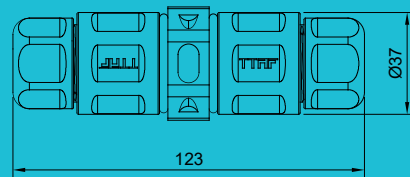
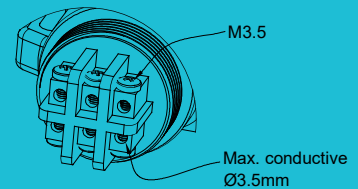
GONTUANA®
Waterproof Connector Series



Technical Specifications

Product Code WPI-0602M25

Number of Poles	6
Voltage Rating	250VAC max.
Current Rating	25A max.
Cable Cross Section Area	0,75mm ² ~ 4mm ²
Durability Voltage	1500VAC@60s.
Insulation Structure	1000 MΩ at 1000VDC
Contact Resistance	1 mΩ max.
Min Wire Size OD	1.0mm
Max Wire Size OD	1.4mm
Temperature Rating	-40°C ~ +85°C
IP Class	IP68 (10m/60min.)
Mold Material	PA6
Contact/Terminal Material	Nickel-Plated Brass
Seal Material	Silicone

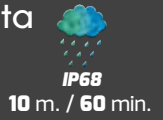


3 Power + 6 Data I Type
Screw Connection
Field Assembly

Connector

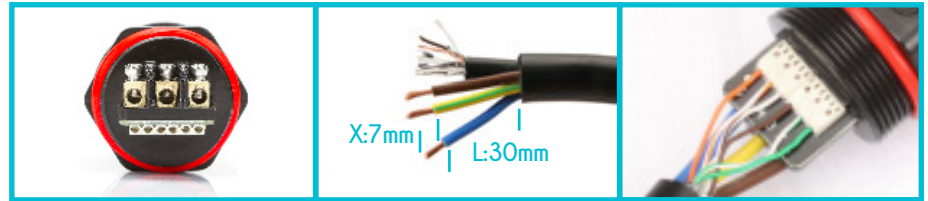
WPI Series

3 Power + 6 Data
250 VAC Power, 50 VDC Data
25A Power + 1A Data



Cable Code : KBL-9144

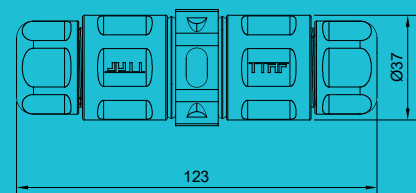
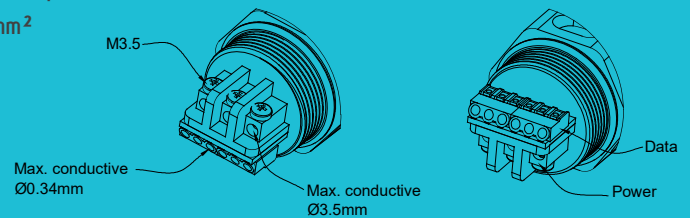
GONTUANA[®]
Waterproof Connector Series



Technical Specifications

Product Code WPI-3602M25

Number of Poles	3 Power + 6 Data
Voltage Rating	Power: 250VAC max. + Data: 50 VDC/VAC
Current Rating	Power: 25A max. + Data: 1 Amper
Cable Cross Section Area	Power: 2.5mm ² - Data: 0.2mm ²
Durability Voltage	1500VAC@60s.
Insulation Structure	1000 MΩ at 1000VDC
Contact Resistance	1 mΩ max.
Min Wire Size OD	10mm
Max Wire Size OD	14mm
Temperature Rating	-40°C ~ +85°C
IP Class	IP68 (10m/60min.)
Mold Material	PA6
Contact/Terminal Material	Nickel-Plated Brass
Seal Material	Silicon



3 Power + Fiber LC Dublex I Type Screw Connection Field Assembly Connector

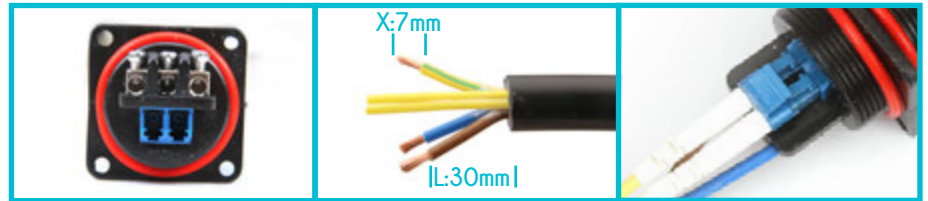
WPP Series

3 pin
250 VAC
25A Power + LC Dublex



Cable Code : KBL-9137

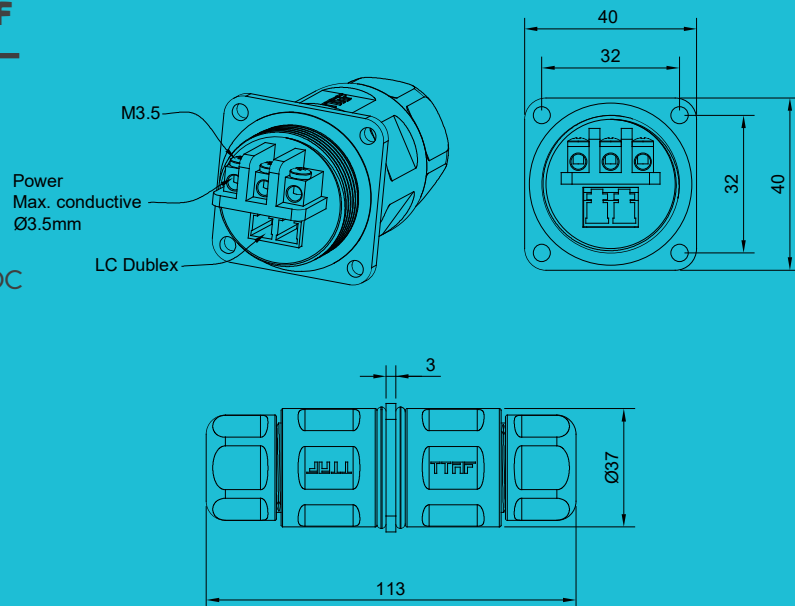
GONTUANA®
Waterproof Connector Series



Technical Specifications

Product Code WPP-0302M25F

Number of Poles	3 Power + LC Dublex
Voltage Rating	Power: 250VAC max.
Current Rating	Power: 25A max.
Cable Cross Section Area	0,75mm ² ~ 4mm ²
Durability Voltage	1500VAC@60s.
Insulation Structure	1000 MΩ at 1000VDC
Contact Resistance	1 mΩ max.
Min Wire Size OD	10mm
Max Wire Size OD	14mm
Temperature Rating	-40°C ~ +85°C
IP Class	IP68 (10m/30min.)
Mold Material	PA6
Contact/Terminal Material	Nickel-Plated Brass
Seal Material	Silicone



6 Pin T Type
Screw Connection
Field Assembly

Connector

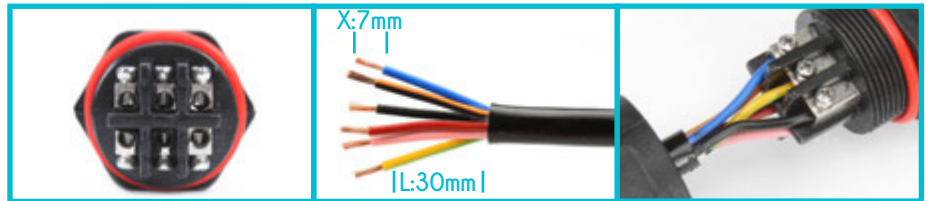
WPT Series

6 pin
250 VAC
25A


IP68
10 m. / 60 min.



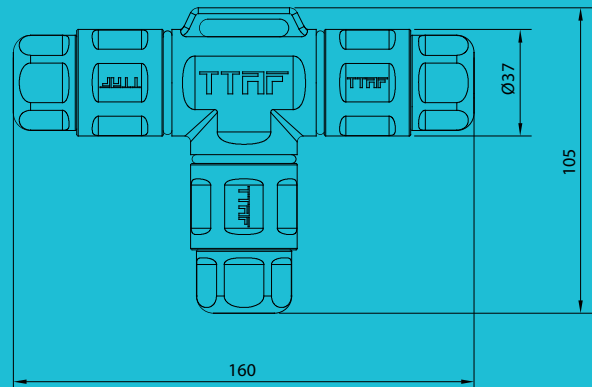
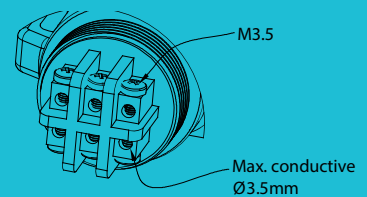
GONTUANA®
Waterproof Connector Series



Technical Specifications

Product Code WPT-0603M25

Number of Poles	6
Voltage Rating	250VAC max.
Current Rating	25A max.
Cable Cross Section Area	0,75mm ² ~ 4mm ²
Durability Voltage	1500VAC@60s.
Insulation Structure	1000 MΩ at 1000VDC
Contact Resistance	10 mΩ max.
Min Wire Size OD	10mm
Max Wire Size OD	14mm
Temperature Rating	-40°C ~ +85°C
IP Class	IP68 (10m/60min.)
Mold Material	PA6
Contact/Terminal Material	Nickel-Plated Brass
Seal Material	Silicone



2 Pin Male Pluggable
Field Assembly 1in 3 out

Electrical Splitter

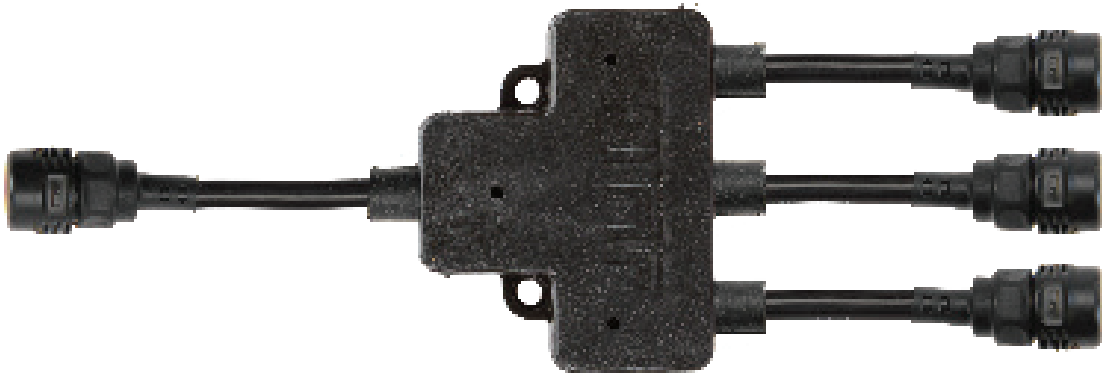
WPS Series

2 pin
250 VAC
16A


IP68
1 m. / 30 min.

1x3
1in 3 out

2 Pin



FOBOS®
Waterproof Electrical Splitter Series

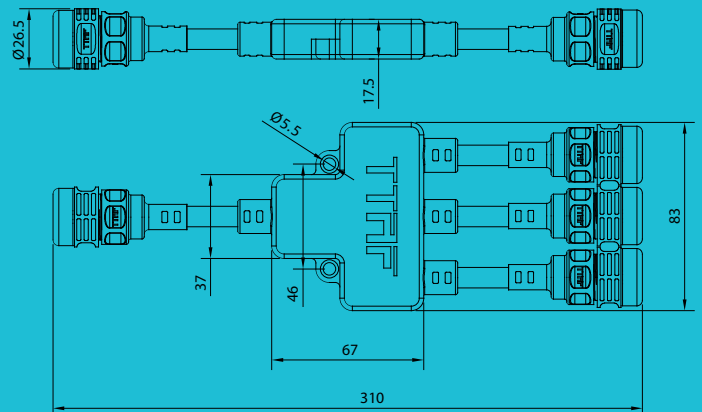


Technical Specifications

Number of Poles
Voltage Rating
Current Rating
Durability Voltage
Insulation Structure
Contact Resistance
Temperature Rating
IP Class
Mold Material
Contact/Terminal Material
Seal Material

Product Code WPS-0204N16M

2
250VAC max.
16A max.
3000VAC@60s.
500 MΩ at 500VDC
30 mΩ max.
-40°C ~ +85°C
IP68 (1m/30min.)
PA6
Nickel-Plated Brass
Silicone



2 Pin Female Pluggable Field Assembly 1in 3 out

Electrical Splitter

WPS Series

2 pin
250 VAC
16A



1x3
1in 3 out

2 Pin



FOBOS®
Waterproof Electrical Splitter Series

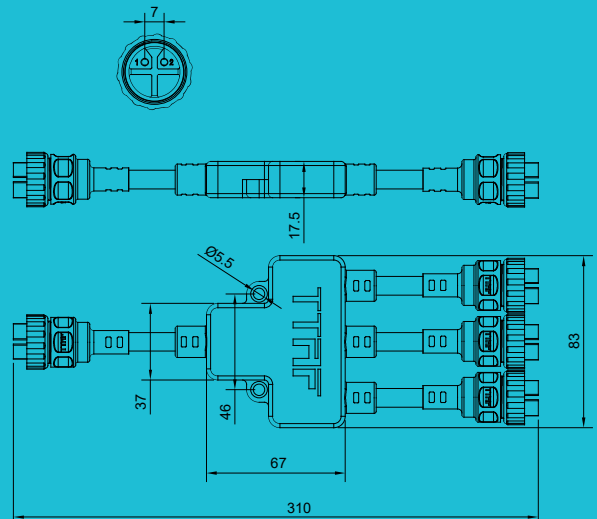


Technical Specifications

Number of Poles
Voltage Rating
Current Rating
Durability Voltage
Insulation Structure
Contact Resistance
Temperature Rating
IP Class
Mold Material
Contact/Terminal Material
Seal Material

Product Code WPS-0204N16F

2
250VAC max.
16A max.
3000VAC@60s.
500 MΩ at 500VDC
30 mΩ max.
-40°C ~ +85°C
IP68 (1m/30min.)
PA6
Nickel-Plated Brass
Silicone



3 Pin Male Pluggable
Field Assembly 1in 3 out

Electrical Splitter

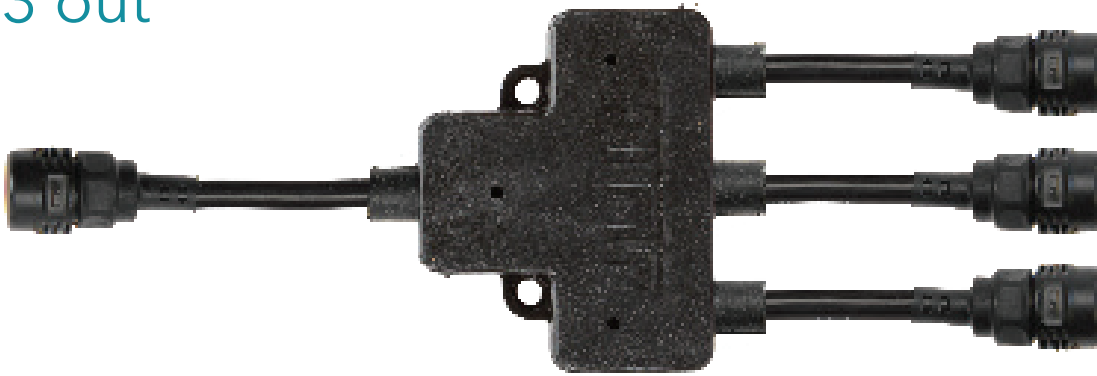
WPS Series

3 pin
250 VAC
16A


IP68
1 m. / 30 min.

1x3
1in 3 out

3 Pin



FOBOS®
Waterproof Electrical Splitter Series

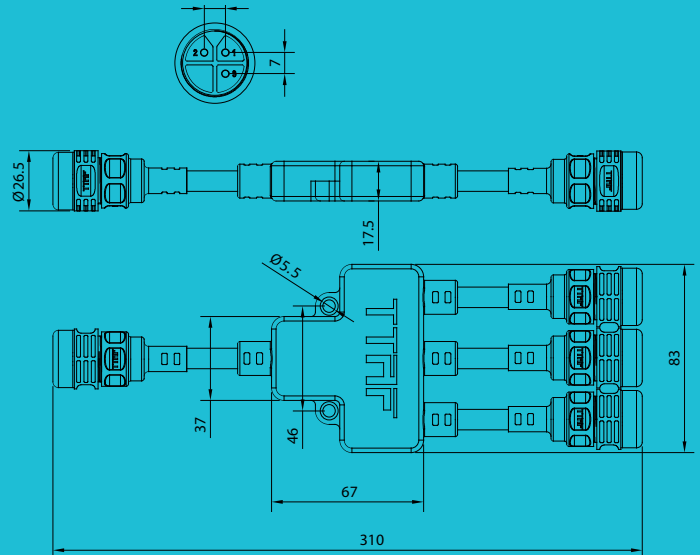


Technical Specifications

Number of Poles
Voltage Rating
Current Rating
Durability Voltage
Insulation Structure
Contact Resistance
Temperature Rating
IP Class
Mold Material
Contact/Terminal Material
Seal Material

Product Code WPS-0304N16M

3
250VAC max.
16A max.
3000VAC@60s.
500 MΩ at 500VDC
30 mΩ max.
-40°C ~ +85°C
IP68 (1m/30min.)
PA6
Nickel-Plated Brass
Silicone



Electrical Splitter

3 pin
250 VAC
16A



1 in 3 out

3 Pin

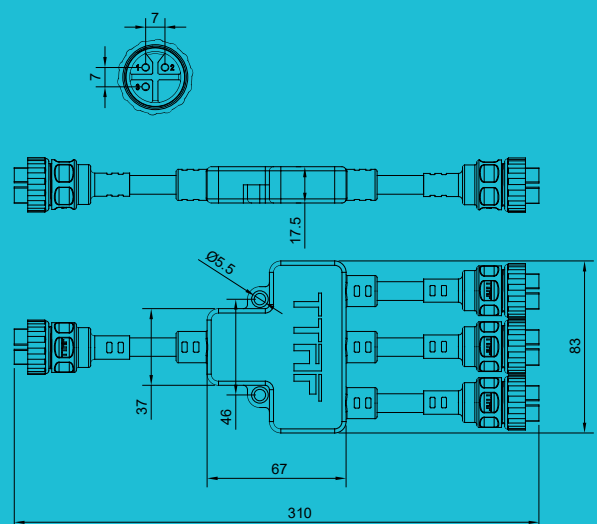


Waterproof Electrical Splitter Series



Product Code
WPS-0304N16F

Number of Poles	3
Voltage Rating	250VAC max.
Current Rating	16A max.
Durability Voltage	3000VAC@60s.
Insulation Structure	500 MΩ at 500VDC
Contact Resistance	30 mΩ max.
Temperature Rating	-40°C ~ +85°C
IP Class	IP68 (1m/30min.)
Mold Material	PA6
Contact/Terminal Material	Nickel-Plated Brass
Seal Material	Silicone



4 Pin Male Pluggable
Field Assembly 1in 3 out

Electrical Splitter

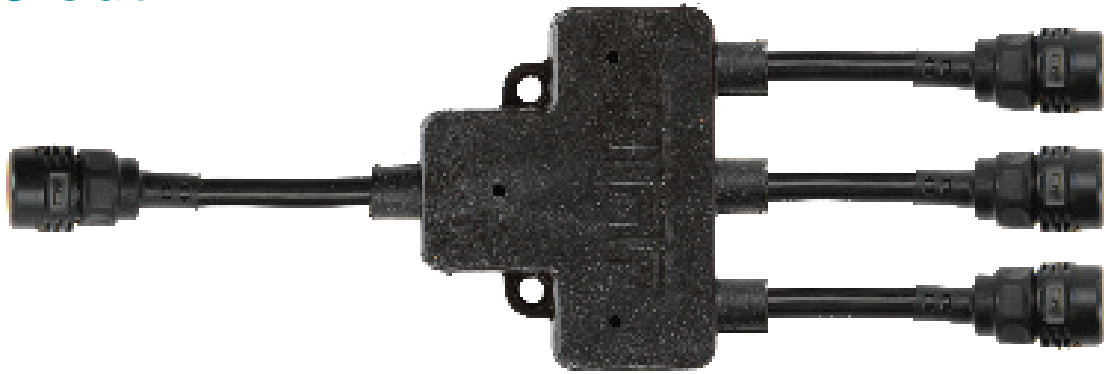
WPS Series

4 pin
250 VAC
16A



1x3
1in 3 out

4 Pin



FOBOS®
Waterproof Electrical Splitter Series

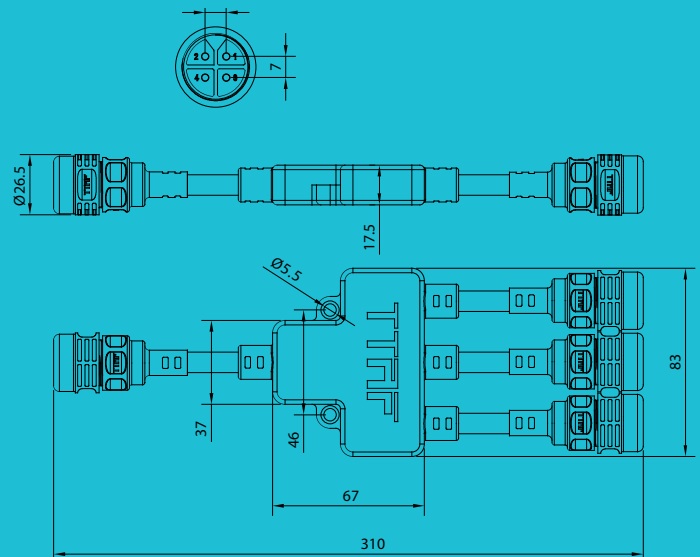


Technical Specifications

Number of Poles
Voltage Rating
Current Rating
Durability Voltage
Insulation Structure
Contact Resistance
Temperature Rating
IP Class
Mold Material
Contact/Terminal Material
Seal Material

Product Code WPS-0404N16M

4
250VAC max.
16A max.
3000VAC@60s.
500 MΩ at 500VDC
30 mΩ max.
-40°C ~ +85°C
IP68 (1m/30min.)
PA6
Nickel-Plated Brass
Silicone



4 Pin Female Pluggable Field Assembly 1in 3 out

Electrical Splitter

WPS Series

4 pin
250 VAC
16A



1x3
1in 3 out

4 Pin



FOBOS®
Waterproof Electrical Splitter Series

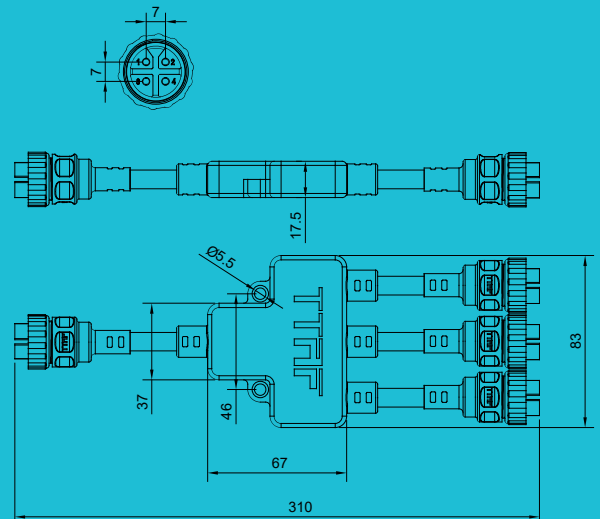


Technical Specifications

Number of Poles
Voltage Rating
Current Rating
Durability Voltage
Insulation Structure
Contact Resistance
Temperature Rating
IP Class
Mold Material
Contact/Terminal Material
Seal Material

Product Code WPS-0404N16F

4
250VAC max.
16A max.
3000VAC@60s.
500 MΩ at 500VDC
30 mΩ max.
-40°C ~ +85°C
IP68 (1m/30min.)
PA6
Nickel-Plated Brass
Silicone



3 Pin Screw Connection
Field Assembly 1in 3 out

Electrical Splitter

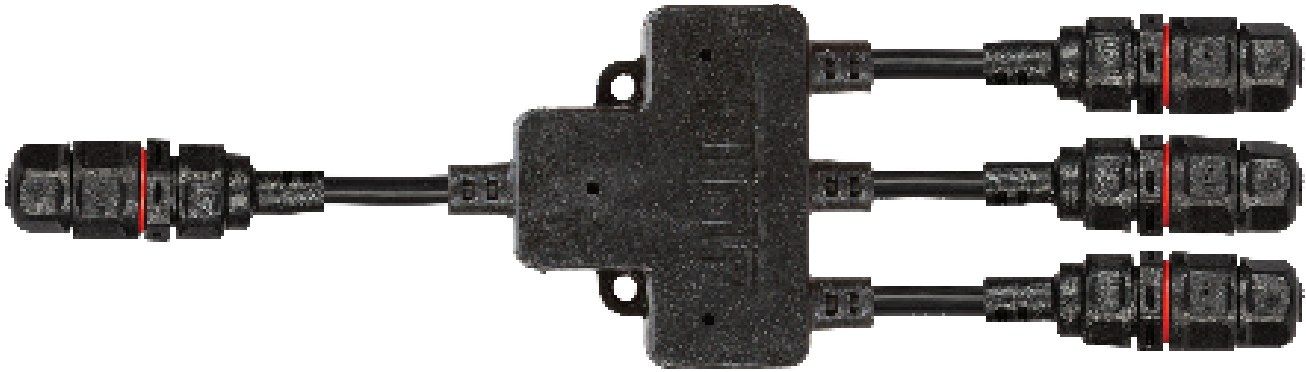
WPA Series

3 pin
250 VAC
16A



1x3
1in 3 out

3 Pin



FOBOS®

Waterproof Electrical Splitter Series



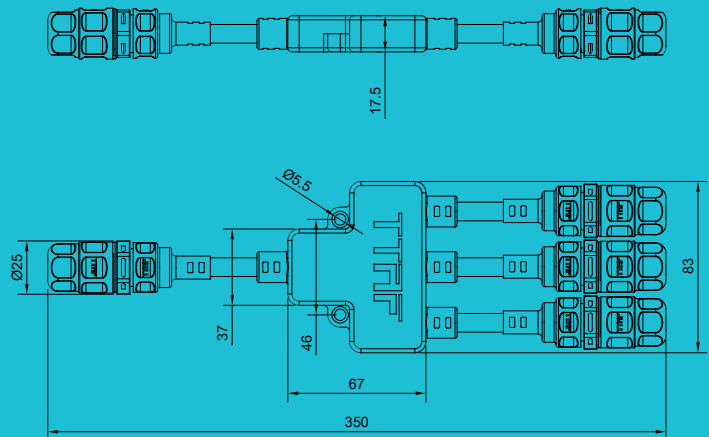
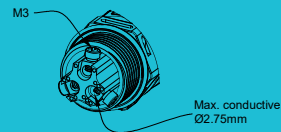
Technical Specifications

Number of Poles
Voltage Rating
Current Rating
Cable Cross Section Area
Durability Voltage
Insulation Structure
Contact Resistance
Min Wire Size OD
Max Wire Size OD
Temperature Rating
IP Class
Mold Material
Contact/Terminal Material
Seal Material

Product Code

WPA-0304N16

3
250VAC max.
16A max.
0,5mm² ~ 2,5mm²
1000VAC@60s.
500 MΩ at 500VDC
10 mΩ max
5,5mm
8,5mm
-40°C ~ +85°C
IP68 (1m/30min.)
PA6
Nickel-Plated Brass
Silicone



3 Pin Screw Connection
Field Assembly 1in 5 out

Electrical Splitter

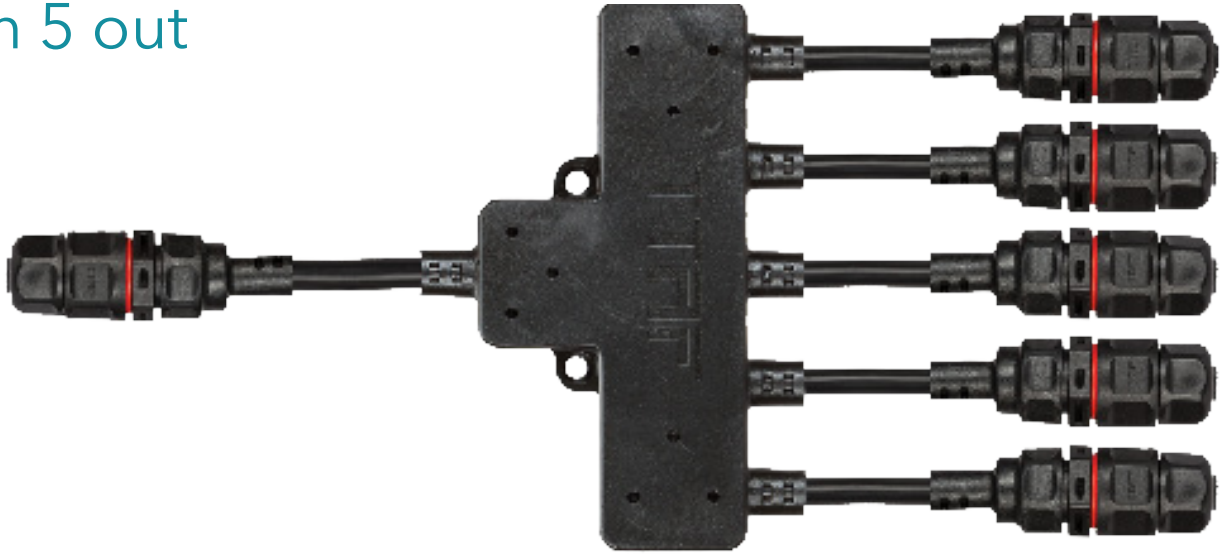
WPA Series

3 pin
250 VAC
16A



1x5
1in 5 out

3 Pin



FOBOS®

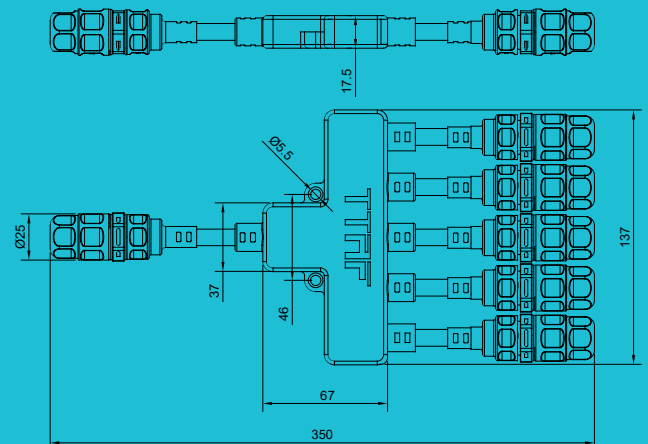
Waterproof Electrical Splitter Series



Technical Specifications

Number of Poles	3
Voltage Rating	250VAC max.
Current Rating	16A max.
Cable Cross Section Area	0,5mm ² ~ 2,5mm ²
Durability Voltage	1000VAC@60s.
Insulation Structure	500 MΩ at 500VDC
Min Wire Size OD	5,5mm
Max Wire Size OD	8,5mm
Temperature Rating	-40°C ~ +85°C
IP Class	IP68 (1m/30min.)
Mold Material	PA6
Contact/Terminal Material	Nickel-Plated Brass
Seal Material	Silicone

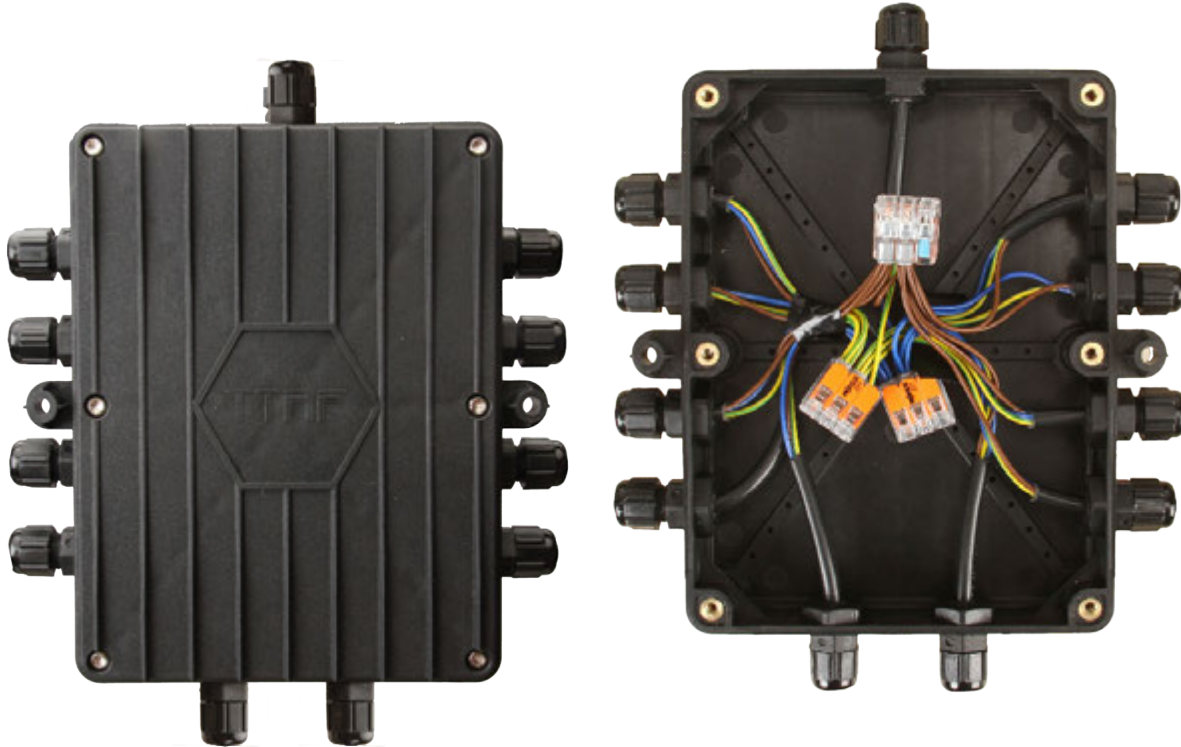
Product Code WPA-0306N16



IP BOX

Electrical Splitter

WP BOX Series

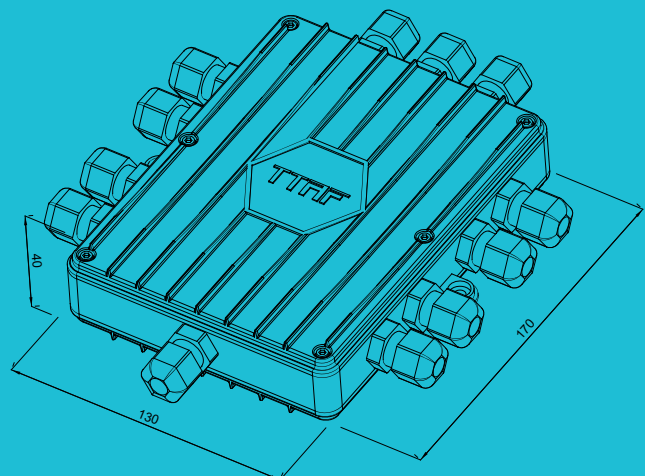


Technical Specifications

Temperature Rating
IP Class
Mold Material
Dimensions

Product Code WP BOX-04

-40°C ~ +85°C
IP67
ABS, PP
170x130x40mm



Cable Joiner



RF Connectors

Some connector samples you will use with IPJ50 and IPJ24 Series



Data Connectors



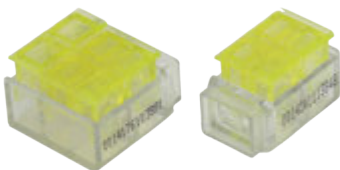
Sensor Connectors



Terminal Blocks



Splice Connectors



D-Sub Connectors

Cable Joiner

IPJ50 Series



IPJ50 is a cable jointer with IP68 sealing feature when it is closed and **inner diameter of 50mm**.

You can connect two cables with any connector without sealing feature inside IPJ50. There is no need for a chemical as in case of equivalent connectors.



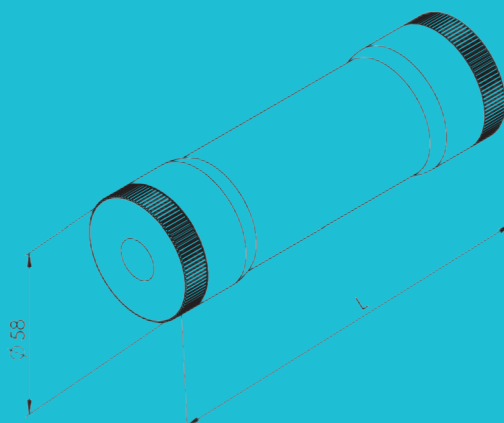
Epoxy



Product Code	Cable Gland Size	Length (L) mm	Handtool Size	Cable OD Ømin-max mm
IPJ50-3	M 12 x 1,5	204	14	3 - 6,5
IPJ50-4	M 16 x 1,5	206	17 - 18	4 - 8
IPJ50-6	M 20 x 1,5	213	22	6 - 12
IPJ50-10	M 25 x 1,5	216	24 - 27	10 - 14
IPJ50-13	M 32 x 1,5	223	30 - 34	13 - 18
IPJ50-18	M 40 x 1,5	236	40 - 43	18 - 25

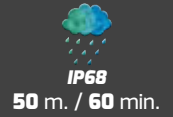
Technical Specifications

Body Material	Cast Polyamide
IP Class	IP68
Operating Temperature	-40°C ~ +100°C
Inner Diameter	50mm
Sealing Ring	Silicone
Outer Diameter	58mm
Cap nut & Gland Body	Brass With Nickel Plated
Clamping Insert	PA6 V2
Gland Sealing Ring	TPV
Gland O-ring	NBR



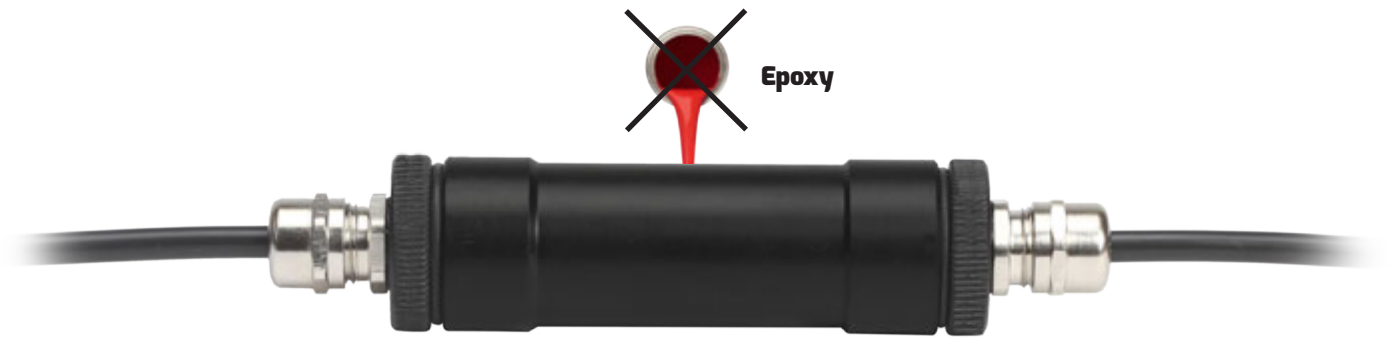
Cable Joiner

IPJ24 Series



IPJ24 is a cable jointer with IP68 sealing feature when it is closed and **inner diameter of 24mm**.

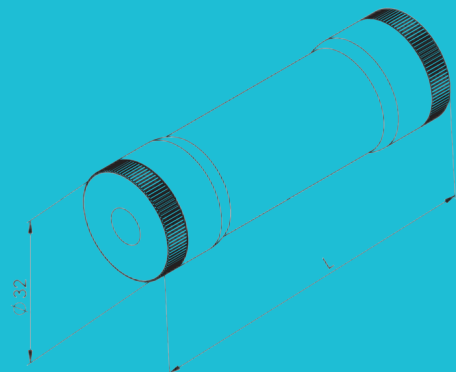
You can connect two cables with any connector without sealing feature inside IPJ24. There is no need for a chemical as in case of equivalent connectors.



Product Code	Cable Gland Size	Length (L) mm	Handtool Size	Cable OD Ømin-max mm
IPJ24-3	M 12 x 1,5	154	14	3 - 6,5
IPJ24-4	M 16 x 1,5	156	17 - 18	4 - 8
IPJ24-6	M 20 x 1,5	163	22	6 - 12

Technical Specifications

Body Material	Cast Polyamide
IP Class	IP68
Operating Temperature	-40°C ~ +100°C
Inner Diameter	24mm
Sealing Ring	Silicone
Outer Diameter	32mm
Cap nut & Gland Body	Brass With Nickel Plated
Clamping Insert	PA6 V2
Gland Sealing Ring	TPV
Gland O-ring	NBR



Waterproof Fuse Holder

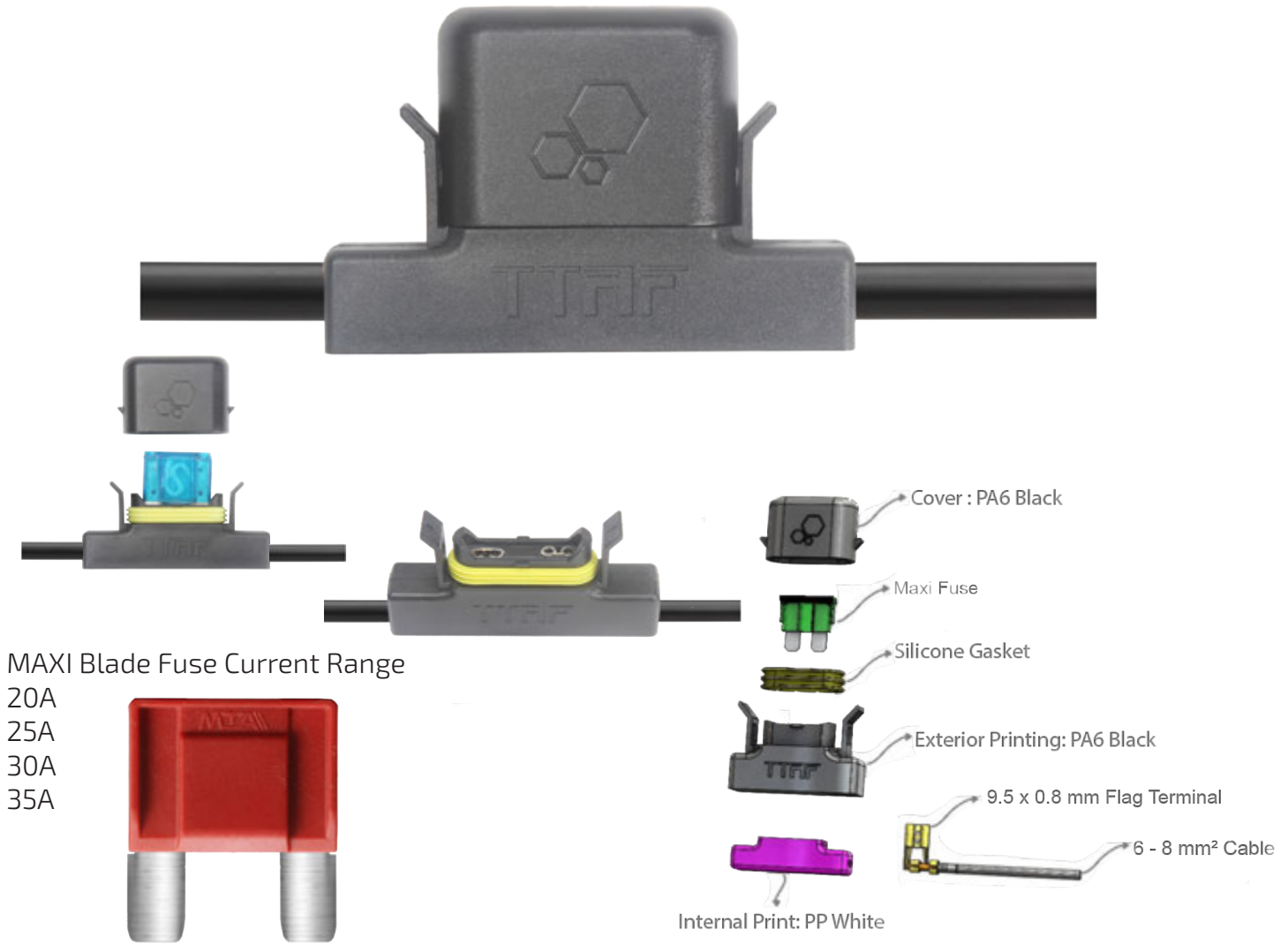
WFH-M Series



Maxi Blade Fuse Type

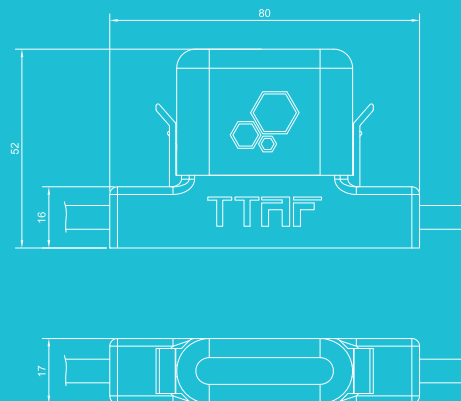
The WFH-M overMolded ,heavy-Duty & waterproof Inline Fuse Holder for maxi Blade fuses lwith protective cover for harsh environments.

20 to 35 amps. Supplied 6mm² (AWG10) cable



Technical Specifications

Body Material	PA6
IP Class	IP68
Operating Temperature	-40°C ~ +100°C
Contact Material	Brass With Nickel Plated
Sealing Ring	Silicone
Max. Current Range	35A



Waterproof Fuse Holder

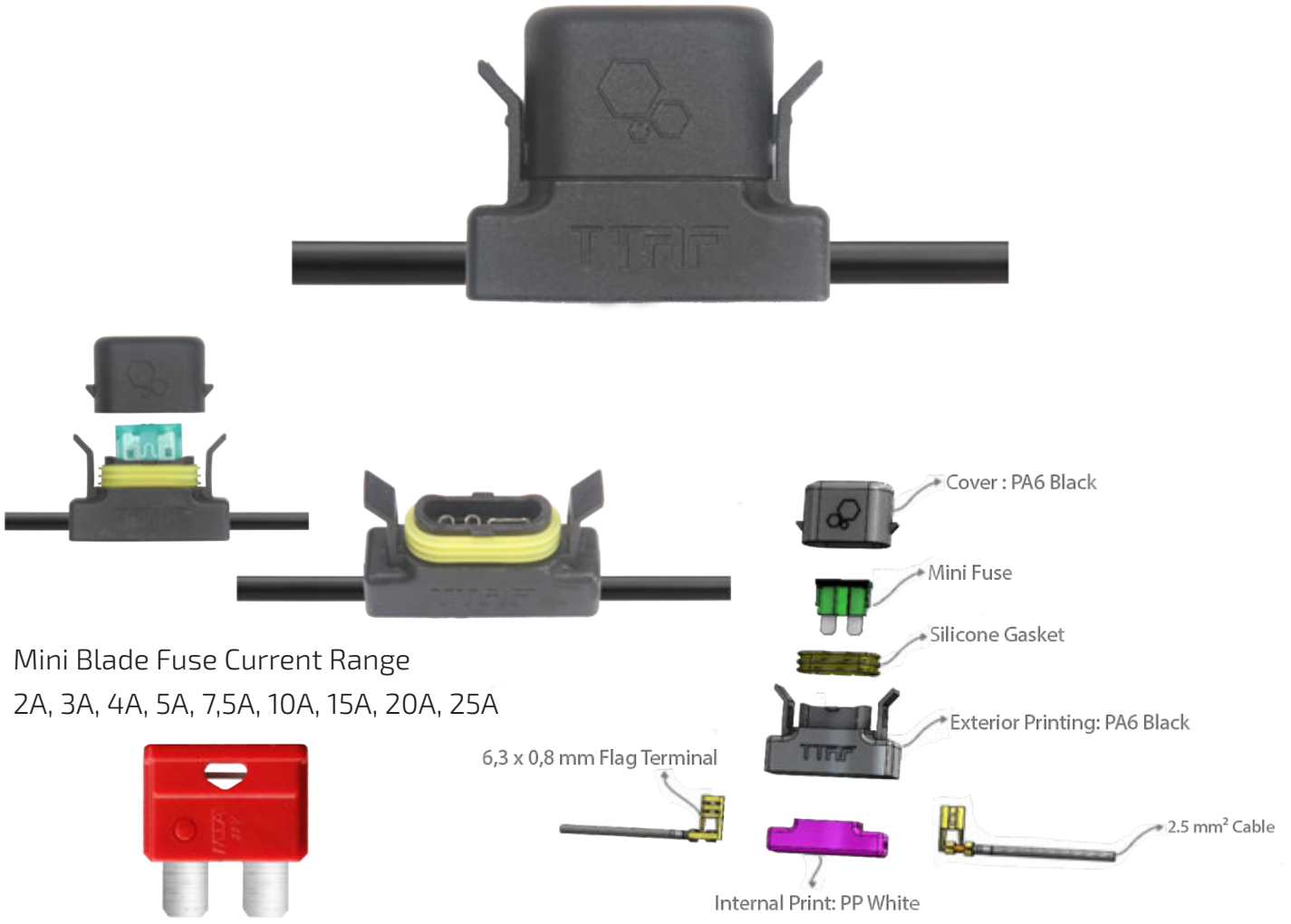
WFH-K Series



Mini Blade Fuse Type

The WFH-K overMolded ,heavy-Duty & waterproof Inline Fuse Holder for mini Blade fuses with protective cover for harsh environments.

2 to 25 amps. Supplied 2.5mm² (AWG14) cable



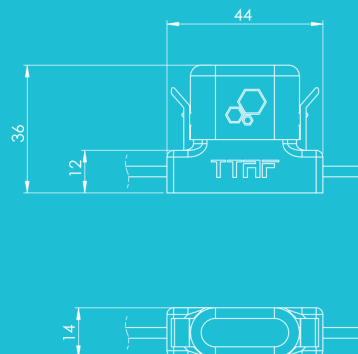
Mini Blade Fuse Current Range

2A, 3A, 4A, 5A, 7,5A, 10A, 15A, 20A, 25A

Technical Specifications

Body Material
IP Class
Operating Temperature
Contact Material
Sealing Ring
Max. Current Range

PA6
IP68
-40°C ~ +100°C
Brass With Nickel Plated
Silicone
25A





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