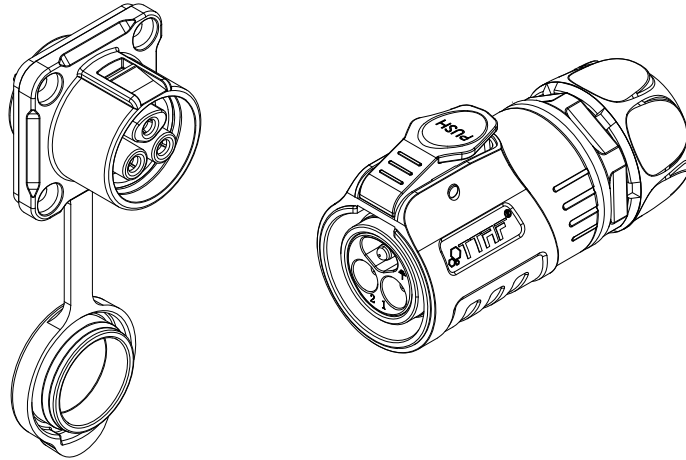


1 Material Designation: TT20 series waterproof connector



2 Materials Processes, Surface Treatment

2.1 Contact

Materials: Male Pin: Brass; Female Pin: Phosphor Bronze

Processes: Machining

Surface Treatment: Gold Plating for 4u" over nickel

2.2 Shell

Materials: PBT

Processers: Injection

2.3 Insulator

Materials: PBT

Processes: Injection

Color: Black

| Date | 03.09.2013 | Rev. | - | Revision Detail | | Rev.Dt. | | Rev.by | | Part No | | |
|-------------|-----------------|------|---|-----------------|--|---------|--|--------|--|-------------------------------------|-------|----------|
| Designed by | Zafer BÖLÜKBAŞI | | | | | | | | | TT20 Series Waterproof Connector | | |
| Checked by | Fatih BOLACA | | | | | | | | | Drawing Nr. | Scale | Sheet No |
| | | | | | | | | | | TT-20180903001 | NONE | 1/7 |



1

2

3

4

5

6

A

A

3.2 Packing and Storage:

The production are packed in plastic bag, The packing list must be set in every carton, which has been given clear information of material designation, part number, production order number、 packet quantity and total product quantity. The packaged production should be stored in the storeroom ,in which Environment Temperature is $-40^{\circ}\text{C} \sim +80^{\circ}\text{C}$,Relative humidity $\leq 85\%$,no acidic, alkaline and other corrosive gases.

B

B

3.3 Mating Type:

Mated with: TT20 connector(male)

3.4 Applicable Standards : TIA/EIA 568、 MIL、 IEC、 CNS Standards

3.5 Process Requirements:

3.5.1 According to form of terminal:

The form of terminal is welding, the welding must be firm and cannot have pseudo soldering

3.5.2 According to form of mounting:


Please see the mounting hole figure.

C

C

D

D

| Date | 03.09.2013 | Rev. | - | Revision Detail | | Rev.Dt. | | Rev.by | | Part No | | |
|---|-----------------|------|---|-----------------|--|---------|--|--------|--|-------------------------------------|------|-----|
| Designed by | Zafer BÖLÜKBAŞI | | | | | | | | | TT20 Series Waterproof Connector | | |
| Checked by | Fatih BOLACA | | | | | | | | | | | |
|  | | | | | | | | | | TT-20180903001 | NONE | 3/7 |

1

2

3

4

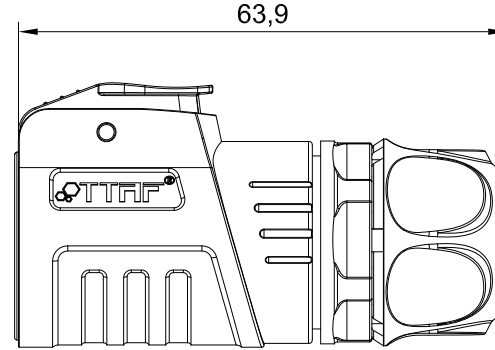
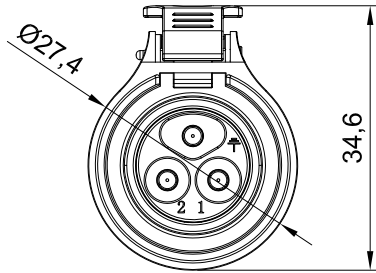
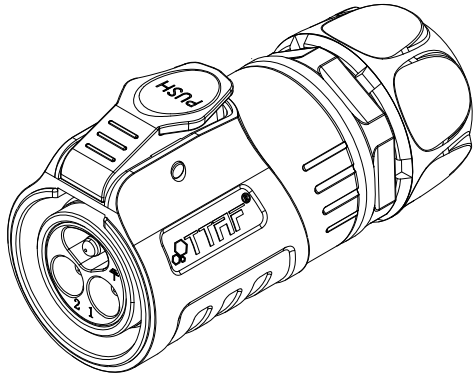
5

6

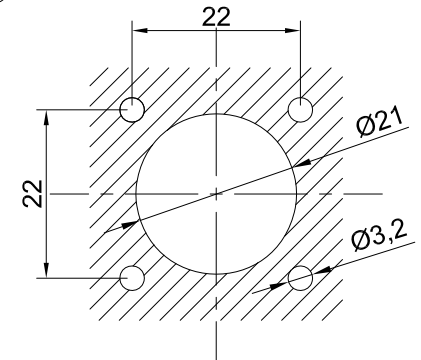
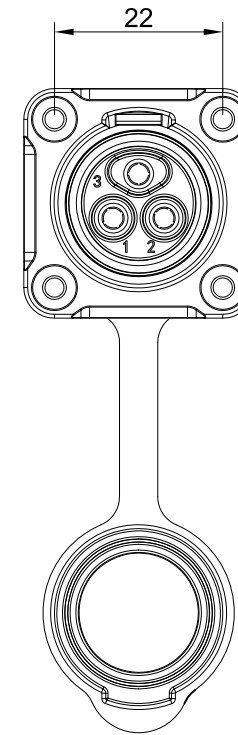
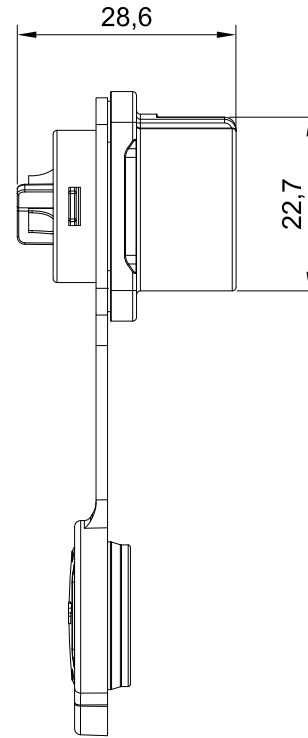
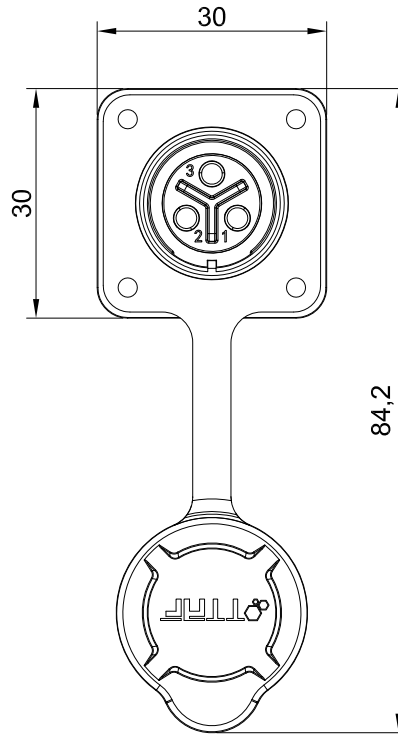
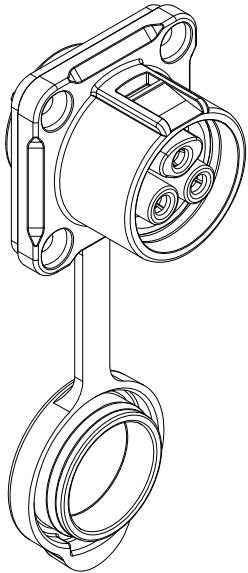
A4

1 2 3 4 5 6

TT-20-C PE-XX-001 Plug










TT-20-C PP-XX-001 Socket




| | | | | | | | | | |
|-------------|-----------------|------|-----------------|--|---------|--------|----------------------|-------|----------|
| Date | 03.09.2013 | Rev. | Revision Detail | | Rev.Dt. | Rev.by | Part No | | |
| Designed by | Zafer BÖLÜKBAŞI | - | | | | | TT20 Series | | |
| Checked by | Fatih BOLACA | | | | | | Waterproof Connector | | |
| | | | | | | | Drawing Nr. | Scale | Sheet No |
| | | | | | | | TT-20180903001 | NONE | 5/7 |

Form No: FR-01/004 İY: 10/2003 Rev:06 09/01/2012


4 Product Characteristics Form:

| Number of pins |  |  |  |  |  |  |  |
|----------------------|---|---|--|---|---|---|---|
| | TWO PINS | THREE PINS | FOUR PINS | FIVE PINS | SEVEN PINS | NINE PINS | TWELVE PINS |
| Rated current | 20A | | | 12A | | 5A | |
| Operating voltage | 500V | | | 500V | | 400V | |
| Withstanding voltage | 2500V | | | 2500V | | 1500V | |
| Contact resistance | <1mΩ | | | <2.5mΩ | | <5mΩ | |
| Temperature rise | 20A 30°C ↓ 25A 40°C ↓ 30A 50°C ↓ | | | 12A 30°C ↓ 15A 40°C ↓ 20A 50°C ↓ | | 5A 30°C ↓ 7A 40°C ↓ 10A 50°C ↓ | |
| Contact dimension | φ2.7*2 | φ2.7*3 | φ2.7*4 | φ1.8*5 | φ1.8*7 | φ1.0*9 | φ1.0*12 |
| Maint cycle | 1700 Times | | | | | | |

| Date | 03.09.2013 | Rev. | - | Revision Detail | | Rev.Dt. | | Rev.by | | Part No | TT20 Series Waterproof Connector | | |
|---|-----------------|------|---|-----------------|--|---------|--|--------|--|----------------|-------------------------------------|----------|--|
| Designed by | Zafer BÖLÜKBAŞI | | | | | | | | | Drawing Nr. | Scale | Sheet No | |
| Checked by | Fatih BOLACA | | | | | | | | | TT-20180903001 | NONE | 6/7 | |
|  | | | | | | | | | | | | | |

Form No: FR-01/004 İY: 10/2003 Rev:06 09/01/2012

| | | | |
|---|--------------------------|--|---|
| A | Screw toque | 42-53 (N.m) Torque wrench200 (N.m) | A |
| | Temperature and humidity | -40°C~+80°C;40°C, 85%RH | |
| | Vibration | Frequency:5~200Hz,Amplitude:5mm,Speed:10m/s, No instantaneous short circuit in 0.10us. | |
| B | Impact resistance | 294m/s ² | B |
| | Salt spray | PH6.5~7.2,NaCl,5% 48H | |
| | Applicable wire diameter | Scope of application(0D:φ8~φ12)mm for 2pins,3pins,4pins Scope of application(0D:φ7~φ9)mm for 5pins,7pins Scope of application(0D:φ5.5~φ7)mm for 9pins,12pins | |
| C | Protection level | IP67 | C |
| | Certification standard | Comply with the TUV and UL certification standards | |
| D | Operation tool | Design with national standard opening wrench(see attached table) | D |

| | | | | | | | |
|---|-----------------|------|--|-----------------|---------|--------|-------------------------------------|
| Date | 03.09.2013 | Rev. | | Revision Detail | Rev.Dt. | Rev.by | Part No |
| Designed by | Zafer BÖLÜKBAŞI | - | | | | | TT20 Series Waterproof Connector |
| Checked by | Fatih BOLACA | | | | | | |
|  | | | | | | | Drawing Nr. |
| | | | | | | | Scale |
| | | | | | | | Sheet No |
| | | | | | | | TT-20180903001 |
| | | | | | | | NONE |
| | | | | | | | 7/7 |