



帝索新能源

NINGBO DSOLA NEW ENERGY  
TECHNOLOGY CO., LTD.

宁波帝索新能源科技有限公司

专业的光伏发电连接系统制造商

宁波帝索新能源科技有限公司

NINGBO DSOLA NEW ENERGY TECHNOLOGY CO., LTD.

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宁波帝索新能源科技有限公司

中国 宁波



# About Us COMPANY

## 宁波帝索新能源科技有限公司简介

宁波帝索新能源科技有限公司是一家专业从事光伏连接器、连接线、连接器转接头，五金件及电子塑料产品的研发、生产、销售的高新技术企业，拥有专业的设计、研发和成熟的生产管理团队。产品质量严格按照ISO9001和9004质量管理体系运行，不断提高工艺水平和应用效益，追求完美，以适应市场节能环保的新要求。

公司坐落于美丽的浙江海滨城市浙江省宁波市江北区，距离沈海高速只需5分钟车程，区内交通便利。公司全体人员热忱欢迎各界朋友的莅临参观，指导和业务洽谈。

NINGBO DSOLA NEW ENERGY TECHNOLOGY CO., Ltd. is a professional engaged in photovoltaic connectors, Connecting wire, connector adapter, hardware and electronic plastic. Production, sales of high-tech enterprises, with professional design, R & D and Mature Production Management Team. Product quality in strict accordance with the ISO9001 and 9004 quality management system. Continuously improve the process level and application efficiency, the pursuit of perfection, to meet the market energy conservation and environmental protection of the new requirements.

The company is located in the beautiful Zhejiang Ningbo city, only a five-minute drive away from the deep-sea expressway, convenient transportation, the company warmly welcome friends from all walks of life to visit, guidance and business negotiations.



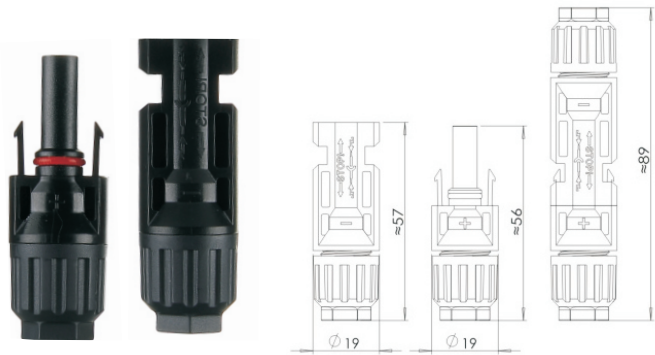
因为创新 我们做的更好  
We do better because of innovation





# 光伏 连接器金属件

## Solar DC Connector PV-FT-01



|                                       |                         |
|---------------------------------------|-------------------------|
| Rated current                         | 30A                     |
| Rated voltage                         | 1000V DC(IEC) DC(UL)    |
| Ambient temperature range             | -40°C~+90°C(ec)         |
| Degree of protection                  | IP67 mated IP2X unmated |
| Contact resistance of plug connectors | 0.5mΩ                   |
| Contact material                      | Copper, tin plated      |
| Locking system plug connectors        | Snap-in(nur/only MC4)   |
| Flame class                           | UL94-HB/UL94-VO         |
| Cable Size                            | 2.5mm², 4mm², 6mm²      |

## Solar DC Connector PV-FT-02



|                                       |                         |
|---------------------------------------|-------------------------|
| Rated current                         | 30A                     |
| Rated voltage                         | 1000V DC(IEC) DC(UL)    |
| Ambient temperature range             | -40°C~+90°C(ec)         |
| Degree of protection                  | IP67 mated IP2X unmated |
| Contact resistance of plug connectors | 0.5mΩ                   |
| Contact material                      | Copper, tin plated      |
| Locking system plug connectors        | Snap-in(nur/only MC4)   |
| Flame class                           | UL94-HB/UL94-VO         |
| Cable Size                            | 2.5mm², 4mm², 6mm²      |

## Solar DC Connector PV-FT-03



|                                       |                         |
|---------------------------------------|-------------------------|
| Rated current                         | 30A                     |
| Rated voltage                         | 1500V DC(IEC) DC(UL)    |
| Ambient temperature range             | -40°C~+90°C(ec)         |
| Degree of protection                  | IP67 mated IP2X unmated |
| Contact resistance of plug connectors | 0.5mΩ                   |
| Contact material                      | Copper, tin plated      |
| Locking system plug connectors        | Snap-in(nur/only MC4)   |
| Flame class                           | UL94-HB/UL94-VO         |
| Cable Size                            | 2.5mm², 4mm², 6mm²      |



FT 01



FT 02



FT 03



FT 04



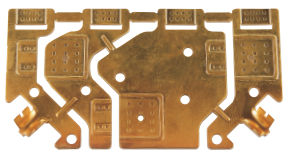
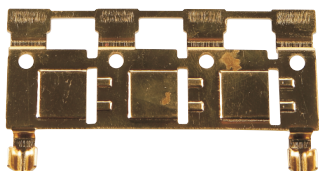
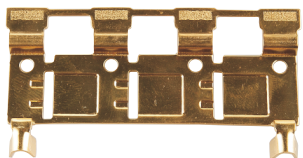
FT 05



FT 06

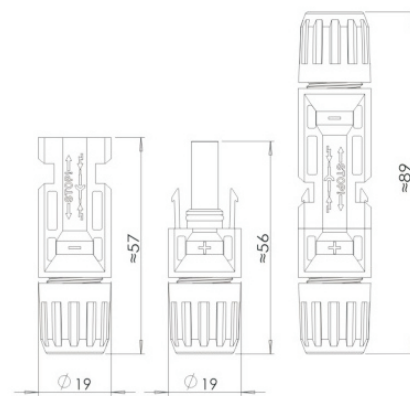


FT-内网



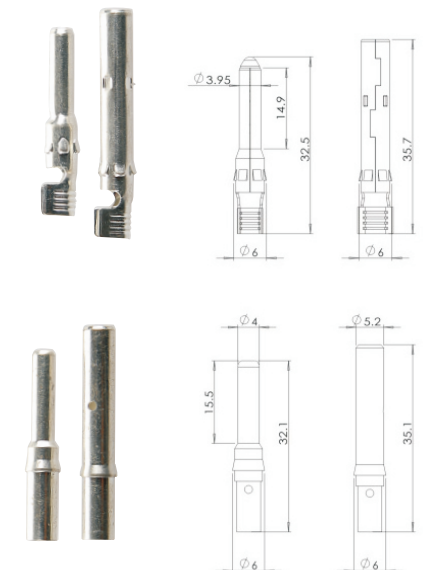
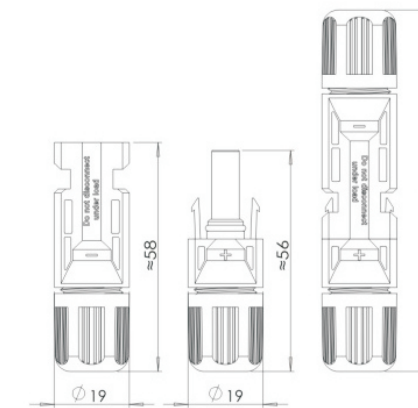
接线盒导电片

## Solar DC Connector PV-FT-04

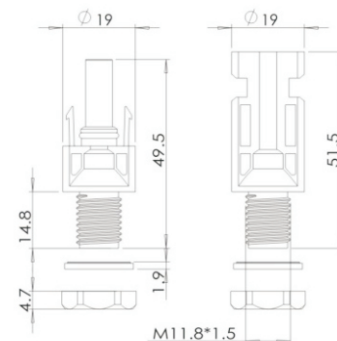


|                                       |                                                          |
|---------------------------------------|----------------------------------------------------------|
| Rated current                         | 30A                                                      |
| Rated voltage                         | 1000V DC(IEC) DC(UL)                                     |
| Ambient temperature range             | -40°C~+90°C(ec)                                          |
| Degree of protection                  | IP67 mated IP2X unmated                                  |
| Contact resistance of plug connectors | 0.5mΩ                                                    |
| Contact material                      | Copper, tin plated                                       |
| Locking system plug connectors        | Snap-in(nur/only MC4)                                    |
| Flame class                           | UL94-HB/UL94-VO                                          |
| Cable Size                            | 2.5mm <sup>2</sup> , 4mm <sup>2</sup> , 6mm <sup>2</sup> |

## Solar DC Connector PV-FT-07



## Solar DC Connector PV-FT-05

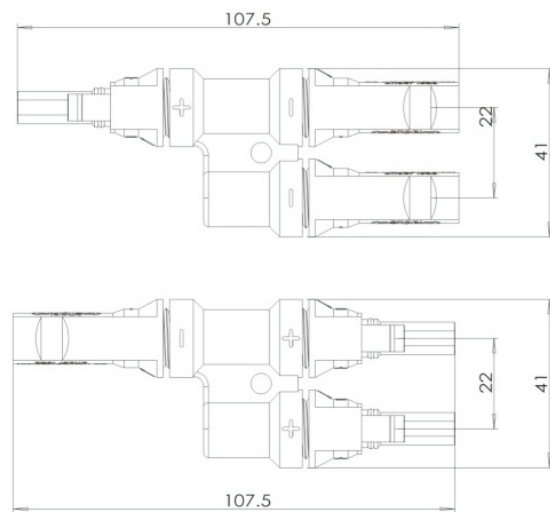


|                                       |                                                          |
|---------------------------------------|----------------------------------------------------------|
| Rated current                         | 30A                                                      |
| Rated voltage                         | 1000V DC(IEC) DC(UL)                                     |
| Ambient temperature range             | -40°C~+90°C(ec)                                          |
| Degree of protection                  | IP67 mated IP2X unmated                                  |
| Contact resistance of plug connectors | 0.5mΩ                                                    |
| Contact material                      | Copper, tin plated                                       |
| Locking system plug connectors        | Snap-in(nur/only MC4)                                    |
| Flame class                           | UL94-HB/UL94-VO                                          |
| Cable Size                            | 2.5mm <sup>2</sup> , 4mm <sup>2</sup> , 6mm <sup>2</sup> |

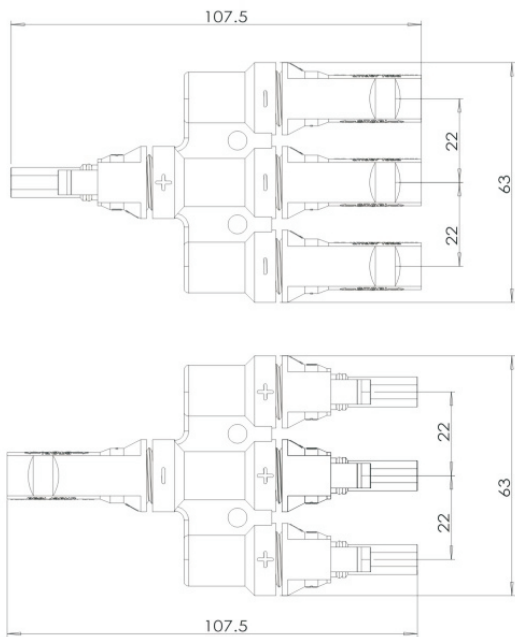
|                                       |                                                          |
|---------------------------------------|----------------------------------------------------------|
| Rated current                         | 30A                                                      |
| Rated voltage                         | 1000V DC(IEC) DC(UL)                                     |
| Ambient temperature range             | -40°C~+90°C(ec)                                          |
| Degree of protection                  | IP67 mated IP2X unmated                                  |
| Contact resistance of plug connectors | 0.5mΩ                                                    |
| Contact material                      | Copper, tin plated                                       |
| Locking system plug connectors        | Snap-in(nur/only MC4)                                    |
| Flame class                           | UL94-HB/UL94-VO                                          |
| Cable Size                            | 2.5mm <sup>2</sup> , 4mm <sup>2</sup> , 6mm <sup>2</sup> |



Branch connector PV-FT-T2



Branch connector PV-FT-T3

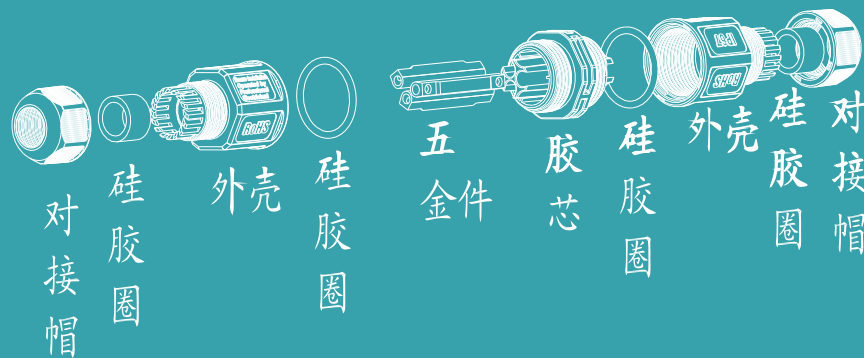
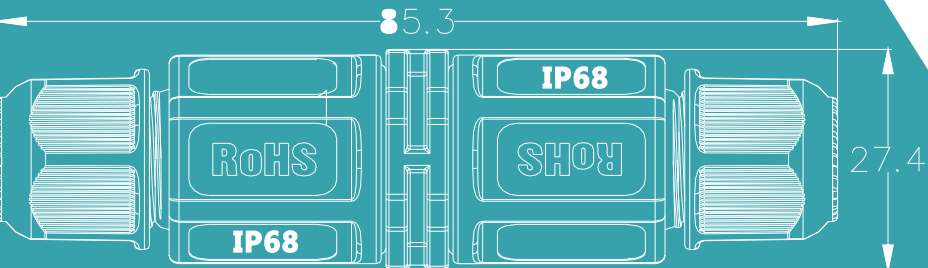


- Rated current 50A
- Rated voltage 1500V DC (IEC)800V DC (UL)
- Ambient temperature range -40℃~+90℃ (IEC)
- Degree of protection IP67 mated | IP2X unmated
- Contact resistance of plug connectors 0.5mΩ
- Contact material Copper, tin plated
- Locking system plug connectors Snap-in (nur/only MC4)
- Flame class UL94-HB / UL94-V0
- Cable Size 2.5mm<sup>2</sup>, 4mm<sup>2</sup>, 6mm<sup>2</sup>
- Diode/Fuse Type Schottky Diode/PV Fuse

- Rated current 50A
- Rated voltage 1500V DC (IEC)800V DC (UL)
- Ambient temperature range -40℃~+90℃ (IEC)
- Degree of protection IP67 mated | IP2X unmated
- Contact resistance of plug connectors 0.5mΩ
- Contact material Copper, tin plated
- Locking system plug connectors Snap-in (nur/only MC4)
- Flame class UL94-HB / UL94-V0
- Cable Size 2.5mm<sup>2</sup>, 4mm<sup>2</sup>, 6mm<sup>2</sup>
- Diode/Fuse Type Schottky Diode/PV Fuse



# 防水接头 Waterproof joint



## Solar DC Connector PV-FT-06

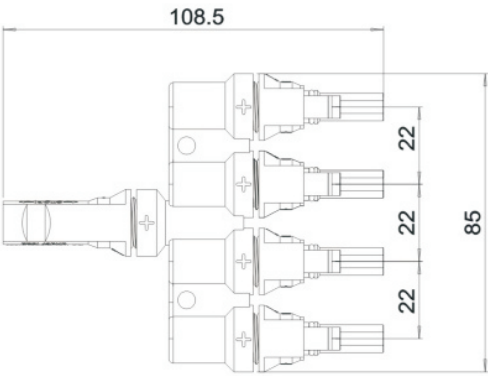
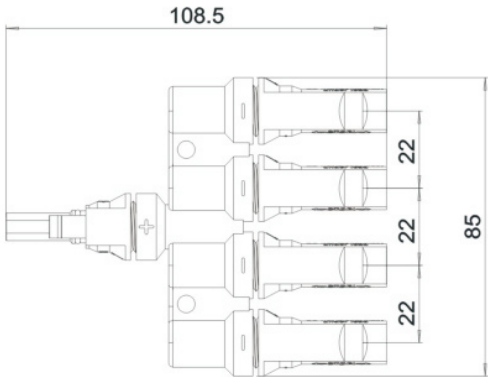


- 1: 外观、环境描述
- 1.1 外形参考尺寸(长×宽×高)(mm): 以实物为准(图纸仅供参考)。
- 1.2 使用环境条件
- |                 |                |                    |
|-----------------|----------------|--------------------|
| 工作温度: -25℃~105℃ | 贮存温度: -25℃~85℃ | 大气压力: (86~106) KPa |
| 相对湿度: ≤90%      | 防水等级: IP68     | 最大电流: 15A          |
- 2: 产品结构描述
- 2.1 接线方式: 螺丝压线式
- 2.2 最大入线直径:  $\Phi 10.0\text{mm}$
- 2.3 连接器接触件及镀层: 铜, 镀铜 镀镍 镀彩锌
- 2.4 接触件塑胶: 尼龙, 260℃耐温, V-0 级阻燃。
- 2.5 防水胶圈: 硅胶。
- 3: 测试
- 3.1 抗电强度: 按照GJB1217-1991中1005方法, 常温常压下, 导体与绝缘体间, 试验电压(有效值) AC 1500V / 50Hz, 经 1min而无击穿或飞弧现象, 超漏电流小于2mA。
- 3.2 绝缘电阻: 按照GJB1217-1991中1005方法, 常温常压下, 导体与绝缘体间, 试验电压(有效值) DC 500V, 绝缘电阻大于1000M $\Omega$ 。
- 3.3 接触电阻: 常温常压下, 防水连接器公母插合状态下, 接触电阻≤10m $\Omega$ 。
- 3.4 盐雾测试: 未插合的连接器按照GJB1217-1991中方法1001的规定, 连接器经受盐溶液浓度5%的氯化钠溶液, 温度35±2℃的中性盐雾试验48h后, 不出现影响性能的腐蚀。
- 3.5 防水性能: 常温常压下, 防水连接器公母插合并装好螺母, 置入1m深清水中, 试验时间1h, 连接器内部无渗水现象。在常温常压下凉置30min, 测试达到3.1、3.2、3.3要求。
- 3.6 接触件分离力: 单孔分离力为1.0-4.0N。
- 3.7 机械寿命: 按照GJB1217-1991方法的2016进行测试, 接触件插拔3000次, 接触件磨擦表面允许镀层有轻微磨损, 但不露其基体金属, 不出现影响性能的机械损伤, 试验后测试接触电阻符合测试部分3.3的要求。
- 3.8 互配性: 同一型号规格的自由连接器与固定连接器应能完全插合和分离。
- 3.9 环境适应性: 产品在经受表1所述条件的试验后应满足表1所规定的要求。

|                                       |                                                          |
|---------------------------------------|----------------------------------------------------------|
| Rated current                         | 30A                                                      |
| Rated voltage                         | 1500V DC(IEC) DC(UL)                                     |
| Ambient temperature range             | -40℃~+90℃(ec)                                            |
| Degree of protection                  | IP67 mated IP2X unmated                                  |
| Contact resistance of plug connectors | 0.5m $\Omega$                                            |
| Contact material                      | Copper, tin plated                                       |
| Locking system plug connectors        | Snap-in(nur/only MC4)                                    |
| Flame class                           | UL94-HB/UL94-VO                                          |
| Cable Size                            | 2.5mm <sup>2</sup> , 4mm <sup>2</sup> , 6mm <sup>2</sup> |

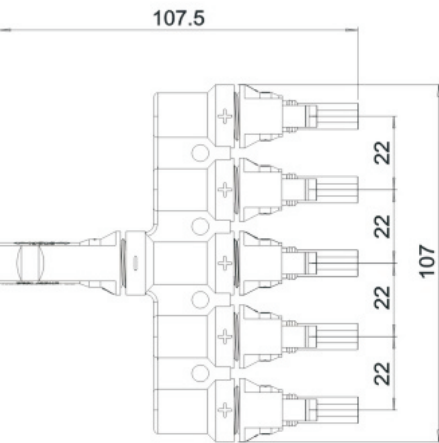
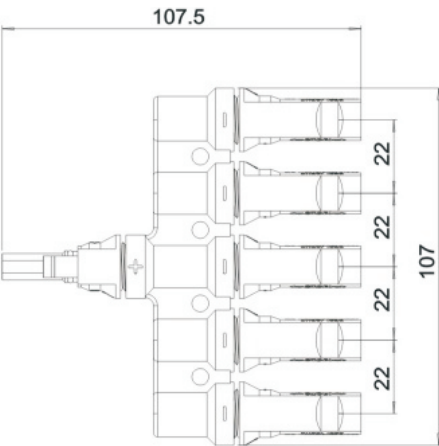
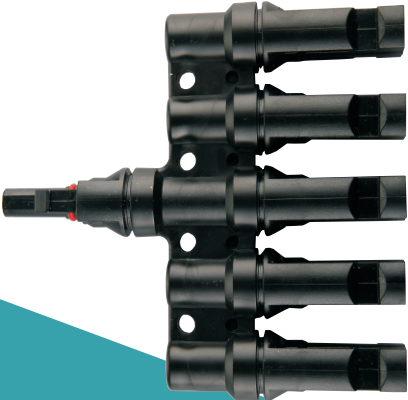


Branch connector PV-FT-T4



- Rated current 50A
- Rated voltage 1500V DC (IEC)800V DC (UL)
- Ambient temperature range -40℃~+90℃ (IEC)
- Degree of protection IP67 mated | IP2X unmated
- Contact resistance of plug connectors 0.5mΩ
- Contact material Copper, tin plated
- Locking system plug connectors Snap-in (nur/only MC4)
- Flame class UL94-HB / UL94-V0
- Cable Size 2.5mm<sup>2</sup>, 4mm<sup>2</sup>, 6mm<sup>2</sup>
- Diode/Fuse Type Schottky Diode/PV Fuse

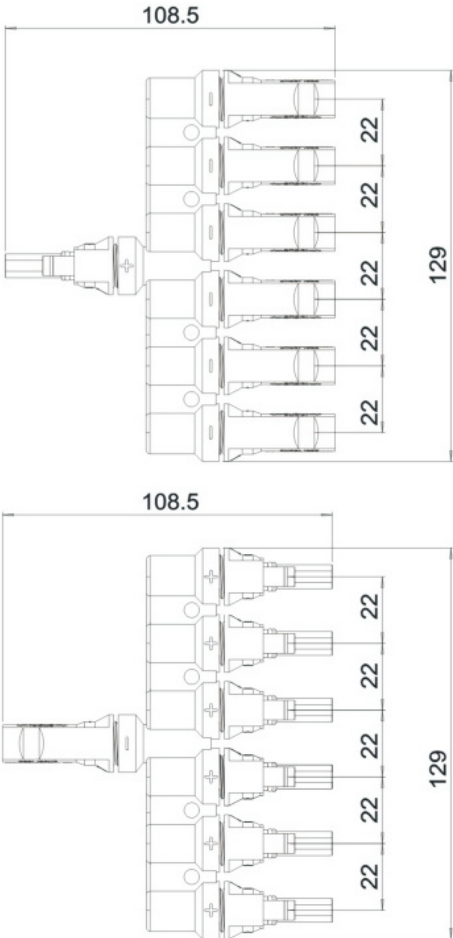
Branch connector PV-FT-T5



- Rated current 50A
- Rated voltage 1500V DC (IEC)800V DC (UL)
- Ambient temperature range -40℃~+90℃ (IEC)
- Degree of protection IP67 mated | IP2X unmated
- Contact resistance of plug connectors 0.5mΩ
- Contact material Copper, tin plated
- Locking system plug connectors Snap-in (nur/only MC4)
- Flame class UL94-HB / UL94-V0
- Cable Size 2.5mm<sup>2</sup>, 4mm<sup>2</sup>, 6mm<sup>2</sup>
- Diode/Fuse Type Schottky Diode/PV Fuse

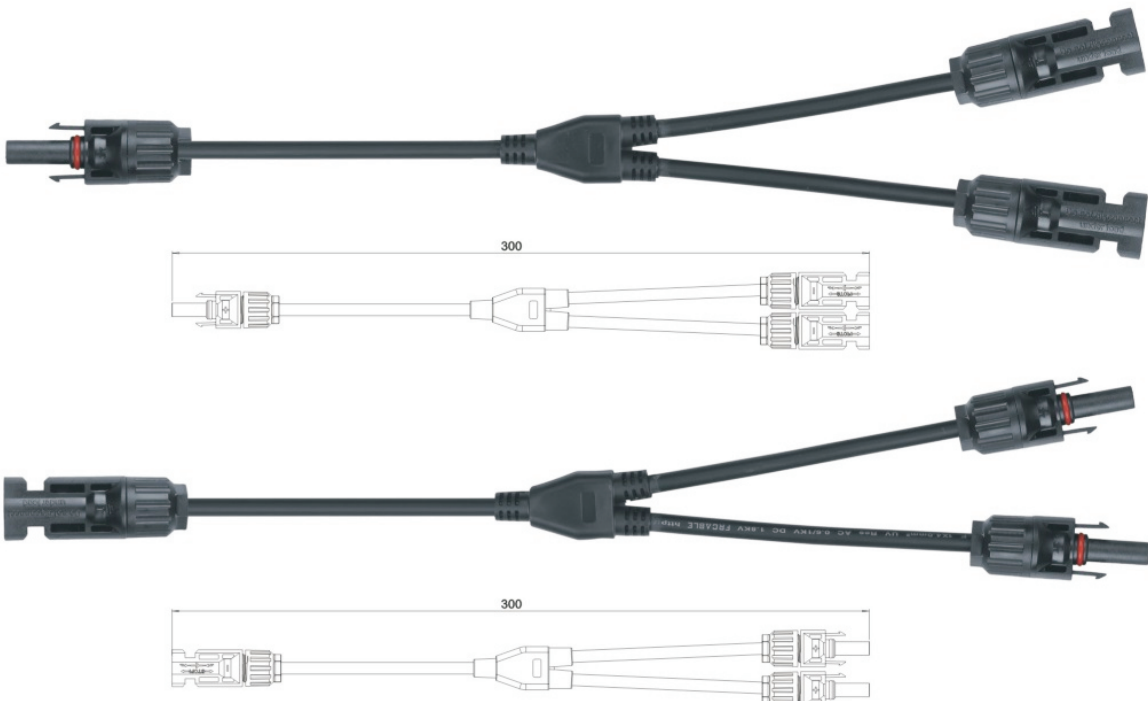


Branch connector PV-FT-T6



|                                       |                                                          |
|---------------------------------------|----------------------------------------------------------|
| Rated current                         | 50A                                                      |
| Rated voltage                         | 1500V DC (IEC)800V DC (UL)                               |
| Ambient temperature range             | -40℃~+90℃ (IEC)                                          |
| Degree of protection                  | IP67 mated   IP2X unmated                                |
| Contact resistance of plug connectors | 0.5mΩ                                                    |
| Contact material                      | Copper, tin plated                                       |
| Locking system plug connectors        | Snap-in (nur/only MC4)                                   |
| Flame class                           | UL94-HB / UL94-V0                                        |
| Cable Size                            | 2.5mm <sup>2</sup> , 4mm <sup>2</sup> , 6mm <sup>2</sup> |
| Diode/Fuse Type                       | Schottky Diode/PV Fuse                                   |

Branch connector PV-FT-Y2



|                                       |                                                          |
|---------------------------------------|----------------------------------------------------------|
| Rated current                         | 50A                                                      |
| Rated voltage                         | 1500V DC (IEC)800V DC (UL)                               |
| Ambient temperature range             | -40℃~+90℃ (IEC)                                          |
| Degree of protection                  | IP67 mated   IP2X unmated                                |
| Contact resistance of plug connectors | 0.5mΩ                                                    |
| Contact material                      | Copper, tin plated                                       |
| Locking system plug connectors        | Snap-in (nur/only MC4)                                   |
| Flame class                           | UL94-HB / UL94-V0                                        |
| Cable Size                            | 2.5mm <sup>2</sup> , 4mm <sup>2</sup> , 6mm <sup>2</sup> |
| Diode/Fuse Type                       | Schottky Diode/PV Fuse                                   |

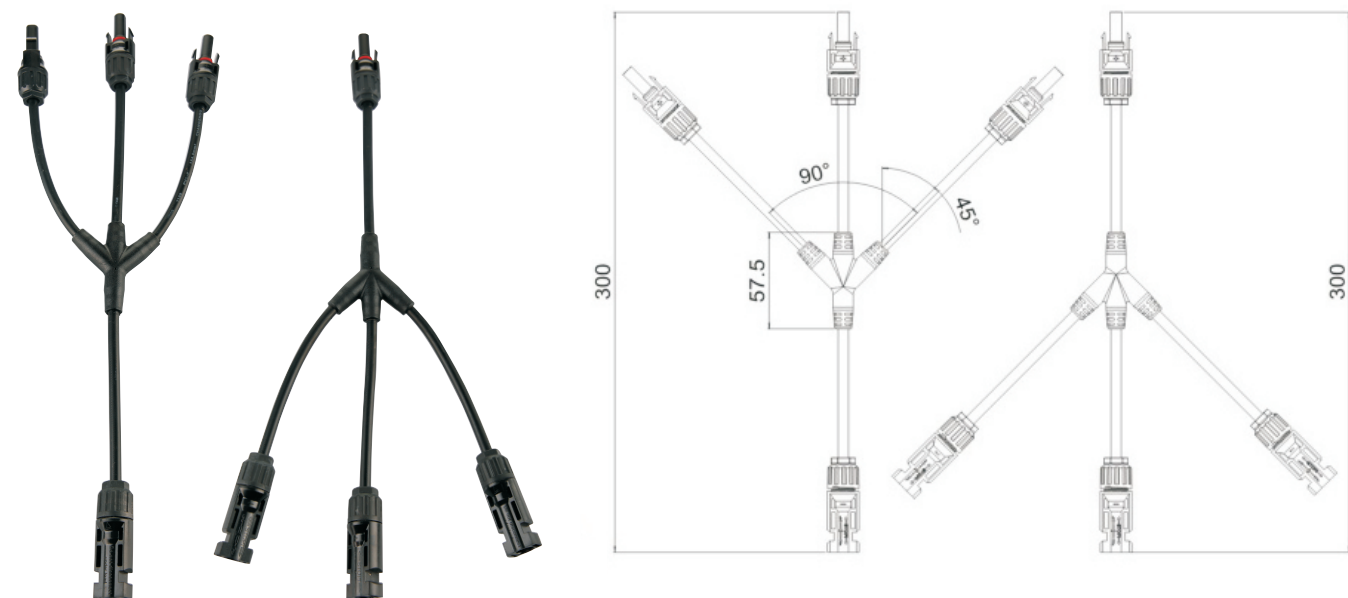


Branch connector PV-FT-020



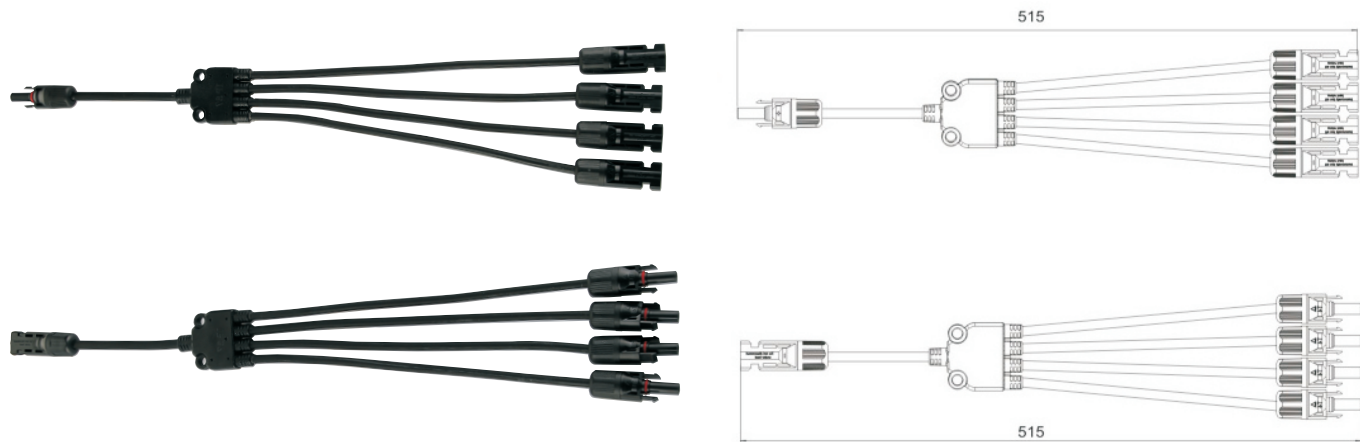
|                                       |                                                          |
|---------------------------------------|----------------------------------------------------------|
| Rated current                         | 30A                                                      |
| Rated voltage                         | 1500V DC (IEC)800V DC (UL)                               |
| Ambient temperature range             | -40℃~+90℃ (IEC)                                          |
| Degree of protection                  | IP67 mated   IP2X unmated                                |
| Contact resistance of plug connectors | 0.5mΩ                                                    |
| Contact material                      | Copper, tin plated                                       |
| Locking system plug connectors        | Snap-in (nur/only MC4)                                   |
| Flame class                           | UL94-HB / UL94-V0                                        |
| Cable Size                            | 2.5mm <sup>2</sup> , 4mm <sup>2</sup> , 6mm <sup>2</sup> |
| Diode/Fuse Type                       | Schottky Diode/PV Fuse                                   |

Branch connector PV-FT-Y3



|                                       |                                                          |
|---------------------------------------|----------------------------------------------------------|
| Rated current                         | 50A                                                      |
| Rated voltage                         | 1500V DC (IEC)800V DC (UL)                               |
| Ambient temperature range             | -40℃~+90℃ (IEC)                                          |
| Degree of protection                  | IP67 mated   IP2X unmated                                |
| Contact resistance of plug connectors | 0.5mΩ                                                    |
| Contact material                      | Copper, tin plated                                       |
| Locking system plug connectors        | Snap-in (nur/only MC4)                                   |
| Flame class                           | UL94-HB / UL94-V0                                        |
| Cable Size                            | 2.5mm <sup>2</sup> , 4mm <sup>2</sup> , 6mm <sup>2</sup> |
| Diode/Fuse Type                       | Schottky Diode/PV Fuse                                   |

Branch connector PV-FT-Y4



- Rated current 50A
- Rated voltage 1500V DC (IEC)800V DC (UL)
- Ambient temperature range -40℃~+90℃ (IEC)
- Degree of protection IP67 mated | IP2X unmated
- Contact resistance of plug connectors 0.5mΩ
- Contact material Copper, tin plated
- Locking system plug connectors Snap-in (nur/only MC4)
- Flame class UL94-HB / UL94-V0
- Cable Size 2.5mm<sup>2</sup>, 4mm<sup>2</sup>, 6mm<sup>2</sup>
- Diode/Fuse Type Schottky Diode/PV Fuse

延长线加工定制 Customization of extension line processing



Tow-set spanners 安装扳手



PV-FTM5(1500V)专用



PV-FTM2/M4(1000V)专用



PV-FTM2(1000V)

压线钳 crimping pliers

