

PV-BN101A Connector Datasheet

Hoja de datos del conector PV-BN101A

Use of high quality materials that guarantee long-term reliability

Uso de materiales de alta calidad que garantizan confiabilidad a largo plazo

Lower contact resistance and higher current transfer capability ensure high produce Efficiency

La menor resistencia de contacto y la mayor capacidad de transferencia de corriente garantizan una alta eficiencia del producto.

PV-BN101A connectors have IP68 water-proof rating and can be used in a wide operating temperature range from -40 °C to 85 °C

Los conectores PV-BN101A tienen una clasificación de resistencia al agua IP68 y se pueden utilizar en un amplio rango de temperatura de funcionamiento de -40 °C a 85 °C



Positive Connector



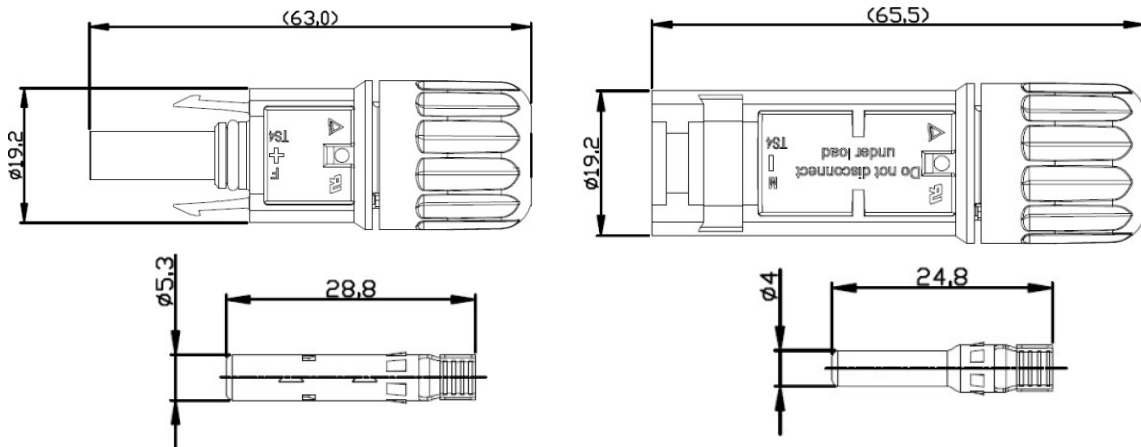
Negative Connector



PV-BN101A Connector Specifications

| | | |
|---------------------------|---------------------------------------|---|
| Rated voltage | <i>Voltaje nominal</i> | IEC 1500V&UL 1500V |
| Rated current @IEC (85°C) | <i>Corriente nominal @IEC (85 °C)</i> | 30A (2.5mm ² / 14 AWG) 41A (4.0mm ² / 12 AWG) 46A (6.0mm ² / 10 AWG) |
| Rated impulse voltage | <i>Voltaje de impulso nominal</i> | 16KV |
| Ambient temperature range | <i>Rango de temperatura ambiente</i> | -40°C~+85°C |
| Contact resistance | <i>Resistencia de contacto</i> | ≤0. 5mΩ |
| Application degree | <i>Grado de aplicación</i> | Class A |
| Protection class | <i>clase de protección</i> | Class II |
| Pollution degree | <i>Grado de contaminación</i> | 2 |
| Degree of protection | <i>Grado de protección</i> | IP68 (1m, 1h) , mated IP2X, unmated |
| Flame class | <i>Clase de llama</i> | UL94-V0 |
| Insulation material | <i>Material de aislamiento</i> | PC |
| Contact material | <i>Material de contacto</i> | Copper, Tin-plated |
| Type of termination | <i>Tipo de rescisión</i> | Crimping |
| Locking system(UL) | <i>Sistema de bloqueo (UL)</i> | Locking type |
| TÜV, IEC62852 | <i>TÜV, IEC62852</i> | R50436998 |
| UL, UL6703 | <i>UL, UL6703</i> | E519809 |

Dimensional Drawing (mm)



Product Overview

| Type | Cable OD | Conductor Cross Section | |
|--------------|----------|-------------------------|-------------|
| | mm | mm ² | AWG |
| PV-BN101A-F1 | 4.3-5.3 | 2.5 | 14AWG |
| PV-BN101A-M1 | | | |
| PV-BN101A-F2 | 5.3-6.3 | 4.0/6.0 | 12AWG/10AWG |
| PV-BN101A-M2 | | | |
| PV-BN101A-F3 | 6.3-7.2 | 4.0/6.0 | 12AWG/10AWG |
| PV-BN101A-M3 | | | |

Toolkit

| TOOL | HERRAMIENTA | QTY. |
|-----------------|-----------------------|-------|
| Strip Clamp | Abrazadera de tira | 1 pc |
| Rivet Clamp | Abrazadera de remache | 1 pc |
| Plastic Spanner | Llave de plástico | 2 pcs |
| Cable Cuter | Cortador de cables | 1 pc |

