

Juneluc Solar Branch Connector JL-BCT51-AB Series

Description:

The Juneluc Solar Branch T Connector is a high-quality photovoltaic (PV) splitter designed for safe and efficient parallel connection of solar panels. It is a crucial component for PV systems of all sizes. Made from premium copper with tin plating, it ensures excellent electrical conductivity, corrosion resistance, and long-term reliable performance.

Key Features:

Certified Quality: Compliant with TÜV / UL / IEC / CE standards for safety and reliability.

Protection: IP67-rated for waterproof and dustproof performance, UV-resistant for harsh outdoor environments.

Easy Installation: Self-locking design for quick, tool-free installation; ratchet mechanism prevents loosening over time.

Superior Electrical Performance: Contact resistance < 0.35 mΩ for minimal power loss and heating.

Current & Temperature Rating: Supports 2.5–6 mm² cables, up to 45A, and operating temperatures from -40°C to +90°C.

Premium Materials: High-strength PPO/PC housing, waterproof rings, and insulation to prevent electrical shock.

Long Lifespan: Over 20 years of reliable operation for PV systems.

Versatile Use: Suitable for challenging environments such as deserts, lakes, coastal areas, and mountains.

Applications:

Parallel connection of solar panels in residential, commercial, and utility-scale PV systems

Connecting solar panels – inverters – DC combiner boxes

Any project requiring stable and safe electrical connections under harsh outdoor conditions

Model: JL-BCT-AB | Connector Type: 2/3/4/5/6-way Branch Connector | Protection: IP67

Specification :

Item Model	JL-BCT51-AB		
Branch Connector Way	5-1		
Insulation material	PPO/PC		
Rated Voltage	TUV1500V/UL1500V		
Rated current	2.5mm ²	35A (14AWG)	
	4mm ²	40A (12AWG)	
	6mm ²	45A (10AWG)	
Test voltage	6KV(50Hz,1Min)		
Contact material	copper, tin-plated		
Contact resistance	less than 0.35 mΩ		
Degree of protection	IP67		
Ambient temperature	-40°C up to +90°C		
Certification	IEC62852 /UL6703		

Drawing:

