

PV-AZB4-EVO 2-UR

MC4-Evo 2 Branch Socket

Photovoltaic Y / branch connector, socket side – DC 1500 V, 60 A IEC

Order No. 32.0196 | Stäubli Electrical Connectors



The Stäubli PV-AZB4-EVO 2-UR is the socket-side MC4-Evo 2 branch connector — a three-terminal Y connector that joins two MC4 or MC4-Evo 2 cable connectors in parallel, for parallel or series-parallel connection of PV modules and strings. It is plug-and-play: no crimping and no torqueing are required. Stäubli describes it as the world's first dual-certified DC 1500 V branch connector, approved under both IEC 62852 and UL 6703, and it carries a 60 A IEC / 95 A UL rating with contact resistance below 0.5 mΩ. Salt-mist-spray resistance at severity degree 6 and certified UV resistance make it suitable for coastal and other aggressive outdoor environments.

GENERAL / IDENTIFICATION

Manufacturer	Stäubli Electrical Connectors AG
Type designation	PV-AZB4-EVO 2-UR
Order number	32.0196
Product family	MC4-Evo 2
Designation	Branch socket
Configuration	Three-terminal 2-to-1 branch connector

ELECTRICAL

Rated voltage (IEC 62852:2014+Amd.1:2020)	DC 1500 V
Rated voltage (UL 6703)	DC 1500 V
Rated current, IEC	60 A
Rated current, UL	95 A
Test voltage	8 kV (at 1500 V rated voltage)
Rated impulse voltage	16 kV
Contact resistance	< 0.5 mΩ
Pollution degree	3

MECHANICAL & ENVIRONMENTAL

Safety class	II
Contact system	MULTILAM
Termination	Plug-and-play – no crimping or torqueing
Locking system	Locking type
Contact material	Copper, tin plated
Insulation material	PA (polyamide)
Flame class	UL94-V0
Degree of protection, mated	IP65 / IP68 (1 m, 168 h)
Degree of protection, unmated	IP2X
Ambient temperature range (IEC)	-40 °C ... +85 °C
Ambient temperature range (UL)	-40 °C ... +90 °C
Upper limiting temperature (IEC)	115 °C

Salt mist spray test (IEC 60068-2-52)	Severity degree 6 – passed
UV resistance (ISO 4892-2/3)	Yes
Maximum operating altitude	5000 m above sea level (AK 60159400)

COMPLIANCE / STANDARDS

TÜV Rheinland certificate (IEC 62852)	R 60149724
UL file number (UL 6703 / CSA C22.2 No. 182.5)	E343181 – cULus Listed and UL Recognized
Mating compatibility	Stäubli MC4 and MC4-Evo product family
Assembly instructions	MA292

ORDERING / ACCESSORIES

Order number	32.0196
Opposite version	PV-AZS4-EVO 2-UR, branch plug, order no. 32.0197
Sealing cap, socket side	PV-BVK4, order no. 32.0716
Unlocking tool	PV-MS-MC4-EVO, order no. 32.6066

TYPICAL APPLICATIONS

Parallel and series-parallel string combination in rooftop, ground-mount and tracker PV arrays; string harnesses and balance-of-system cabling assemblies.

Installation note: the intended use of the MC4-Evo 2 branch connector is within cabling solutions for PV systems. Branch connectors must not be connected directly to panel receptacles of inverters.