MC4 · 1/2 · 1/3 · 1/4

EURONET SOLAR MC4 CONNECTORS – Single · 1/2 · 1/3 · 1/4

Single & Branch PV Connectors | IP68 Mated | IEC 62852



BRANCH OPTIONS **1/2 · 1/3 · 1/4**	DESIGN STANDARD **IEC 62852**
PROTECTION, MATED **IP68**	PROTECTION, UNMATED **IP20**
UV TEST (ISO 4892-2) **500 hrs**	CERTIFICATION **TÜV certified**

OVERVIEW

EURONET Solar MC4 Connectors cover every PV wiring joint in one range. The single straight male and female pair joins module leads and solar cables, suits 2.5mm², 4mm² and 6mm² PV cable and is rated 1000V / 1500V DC. The 1/2, 1/3 and 1/4 branch connectors combine PV strings and come ready for field assembly, with no small parts to lose on site. All types use crimped, tin-plated copper contacts and snap-fit locking, are rated IP68 when mated and IP20 when unmated, are UV tested for 500 hrs and are designed to IEC 62852.

KEY FEATURES

Single And Branch Types
Straight male/female pair for module leads, plus 1/2, 1/3 and 1/4 branch connectors for PV strings

Snap-Lock Mating
Snap-fit locking: push to connect; branch types separate by pressing both sides of the built-in lock

Low-Loss Contacts
Crimped, tin-plated copper contacts keep contact resistance and power loss low on every PV joint

IP68 When Mated
IP68 protection when mated and IP20 when unmated, built for outdoor PV arrays in all kinds of weather

UV Tested To ISO 4892-2
Long-term UV resistance, tested for 500 hrs to ISO 4892-2; flame-retardant, fire-resistant housings

Single: 1000V / 1500V DC
Single pair rated 25A on 2.5mm² and 30A on 4mm² or 6mm² cable, with a 6kV (50Hz) test voltage

TECHNICAL NOTE

Range: single straight male + female pair, and 1/2, 1/3, 1/4 branch connectors. All: IEC 62852, crimp connection, snap-fit locking, tin-plated copper contacts, IP68 mated / IP20 unmated, UV tested 500 hrs (ISO 4892-2), TÜV certified. Single: 2.5/4.0/6.0mm² cable, 1000V / 1500V DC, 25A (2.5mm²) / 30A (4.0, 6.0mm²), <0.5mΩ, -40°C to 85°C. Branch: PPO housing, SASO / SABER.

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MC4 · 1/2 · 1/3 · 1/4

PRODUCT TECHNICAL SPECIFICATIONS

PARAMETER	SPECIFICATIONS
GENERAL	
Model	Single (straight) · 1/2 · 1/3 · 1/4 (branch)
Branches	1 (single) · 2 (1/2) · 3 (1/3) · 4 (1/4)
Product Type	Single: straight PV connector, male plug + female socket · 1/2 · 1/3 1/4: PV branch connector, male & female, plug and play
Design Standard	IEC 62852 (all)
Assembly	1/2 · 1/3 1/4: ready for field assembly, no small parts
ELECTRICAL	
Rated Voltage	1000V / 1500V DC (single) · Not available (1/2 1/3 · 1/4)
Rated Current	25A on 2.5mm², 30A on 4.0 / 6.0mm² (single) · Not available (1/2 · 1/3 · 1/4)
Test Voltage	6kV (50Hz) (single) · Not available (1/2 · 1/3 1/4)
Safety Class	II (single) · Not available (1/2 · 1/3 · 1/4)
Contact Resistance	<0.5mΩ (single) · low, no value stated (1/2 1/3 · 1/4)
CONNECTION & LOCKING	
Connection Method	Crimping (all)
Suitable Cable	2.5 / 4.0 / 6.0mm² PV cable to 2PfG 1169 / EN 50618 (single) · Not available (1/2 · 1/3 · 1/4)
Locking	Snap-in, snap-fit locking arrangement (all)
Unlocking	1/2 · 1/3 1/4: press both sides of the built-in lock unlocking tool meets NEC requirements
Insertion / Withdrawal Force	≤50N / ≥50N (single) · Not available (1/2 · 1/3 1/4)

PARAMETER	SPECIFICATIONS
CONSTRUCTION & PROTECTION	
Contact Material	Tin-plated copper (all)
Housing	Flame-retardant engineering thermoplastic (single) · fire-resistant PPO (1/2 · 1/3 · 1/4)
Sealing	Flexible watertight seal (single)
Ingress Protection	IP68 when mated / IP20 when unmated (all) IP67 waterproof also stated for the branch housing
UV & Ozone Resistance	UV tested 500 hrs per ISO 4892-2 (all) long-term UV and ozone resistant (1/2 · 1/3 1/4)
Chemical Resistance	1/2 · 1/3 1/4: hydrolysis, oil, chemicals, abrasion, corrosion · also extreme temperatures
ENVIRONMENTAL	
Operating Temperature	-40°C to 85°C (single) · Not available (1/2 · 1/3 1/4)
Application	Outdoor PV arrays · module leads (single) PV string branching (1/2 · 1/3 · 1/4)
CERTIFICATION	
Product Certification	TÜV certified (all) · CB · IEC · CE TÜV Rheinland (1/2 · 1/3 · 1/4)
Regional Approval	SASO / SABER (1/2 · 1/3 · 1/4) Saudi market conformity
Quality System	ISO 9001:2015 certified DAkkS / IAF accredited
PHYSICAL & PACKING	
Dimensions	Not available
Weight	Not available
Packing	Not available

**Specifications are subject to change without prior notice.*

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