

MC4 MALE / FEMALE LEAD 32.0026-100-21 & 32.0026-500-21



32.0015P0001-UR

62.7431-91021

32.0014P0001-UR

Connector Specifications

Technical data	
Connector system	Ø 4 mm
Rated voltage	1000 V DC (IEC 62852) 1500 V DC (2Pfg2330) ¹⁾ 600 V DC / 1000 V DC / 1500 V DC (UL) ²⁾
Rated current TÜV (85 °C)	39 A (4 mm ² /6 mm ²)
Rated impulse voltage	12 kV (1000 V DC (TÜV)) 16 kV (1500 V DC (TÜV))
Ambient temperature range	-40 °C...+85 °C (TÜV) -40 °C...+75 °C (UL)
Upper limiting temperature	105 °C (TÜV)
Degree of protection, mated unmated	IP65, IP68 (1 h / 1 m) IP2X
Overvoltage category / Pollution degree	CATIII / 3
Contact resistance of plug connectors	≤ 0.25 mΩ
Safety class	1000 V DC: II 1500 V DC: 0
Contact system	MULTILAM
Type of termination	Crimping
Contact material	Copper, tin plated
Insulation material	PC/PA
Locking system (UL)	Locking type
Flame class	UL94-V0
Ammonia resistance (acc. to DLG)	1500 h, 70 °C / 70% RH, 750 ppm
Salt mist spray test, degree of severity 6	IEC 60068-2-52
TÜV-Rheinland certified, in accordance with IEC 62852	R60111354 ³⁾
TÜV-Rheinland certified, in accordance with 2Pfg2330	R60087448
UL recognized component, in accordance with UL 6703	E343181
CSA certified, in accordance with UL 6703	250725
CQC certified according CNCA/CTS0002-2012	CQC16024138286

¹⁾ 2Pfg2330: only approved for locations with restricted access

²⁾ for selected configurations; see assembly instructions MA231 for details

³⁾ For PV junction boxes in accordance with IEC62790, lines in accordance with EN50618 must be used

Order No.	Type	Female cable coupler	Male cable coupler	Ø range of cable gland	Conductor cross section			Approvals			
					A (mm)	mm ²	AWG	b (mm)	TÜV	RAI	SA
32.0014P0001-UR	PV-KBT4/6I-UR	x		5-6	4; 6	12; 10	5	x	x	x	x
32.0015P0001-UR	PV-KST4/6I-UR		x	5-6	4; 6	12; 10	5				

Cable Specifications

Technical data	
Nominal voltage	1500 V / max. 1800V (U ₀) (IEC)
Test voltage according to EN 50395-6	6.5 kV AC / 15 kV DC (5 min.)
Rated current	41 A (2.5 mm ²). 55 A (4.0 mm ²). 70 A (6.0 mm ²). 98 A (10 mm ²)
Rated voltage	1500 V DC IEC
Insulation resistance of the complete cable according to EN 50395-8.2	≥ 1000 MΩkm
Ambient temperature	-40 °C ... +90 °C
Maximum conductor temperature	max. +120 °C
Bending radius	Dynamic >5 × OD Static >4 × OD
Resistant to...	UV Ozone Hydrolysis
Resistance to... tested acc. to IEC 60811-2-1	Acids, alcalis and oil (IRM 902)
Isolation, acc. IEC 60332-1-2	Flame retardant with particularly low smoke emission
Conductor: fine-wire tinned copper strands Number larger than standard	Wire class 5 in accordance to IEC/EN 60228
Inner insulation (white) Sheath insulation, with colour patch (black)	XLPE (RAL9003) Polyolefin
Sheat color	Black
TÜV Approval according EN50618	R50359551

Order No.	Type	Conductor cross section	Conductor Ø	Outer-Ø	Strand design	Conductor resistance	Approvals
		mm ²	mm	mm	Number x Ø mm	Ω/km 20 °C	
62.7431-91021	FLEX-SOL-EVO-TX 4,0	4.0	2.4	5.4	52 x Ø 0.30	5.09	TÜV