

# MODULE 1 CONTACT



Flexible protective grounding for all conductive housings and docking frame versions



**Contact diameter: 8 mm**  
**Mating cycles<sup>1</sup>: min. 10,000**  
**Conductor cross-section: 10 / 16 / 25 mm<sup>2</sup>**

### TECHNICAL NOTES

- The module can be freely positioned in any frame and allows contacting to the frame and conductive housing.
- Novel torx cone connection for optimized power transmission
- Crimp information see [ODU-MAC® Blue-Line catalog](#).

### TECHNICAL DATA

#### Mechanical data

Total mating force (average)	30 N / Module
Total sliding force (average)	22.5 N / Module
Contact diameter	8 mm
Operating temperature	-40 °C to +125 °C
Mating cycles	minimum 10,000

#### Materials

Contact body	Cu alloy
Contact lamella	CuBe alloy
Contact plating	Ni



### REQUIRED ASSEMBLY TOOL

For screwing and releasing the contacts

Torque wrench for PE module and contact

**PART NUMBER: 598.054.002.000.000**

Locking torque: 1.2 Nm ± 0.2 Nm

Bit Torx TX10 for PE module and contact

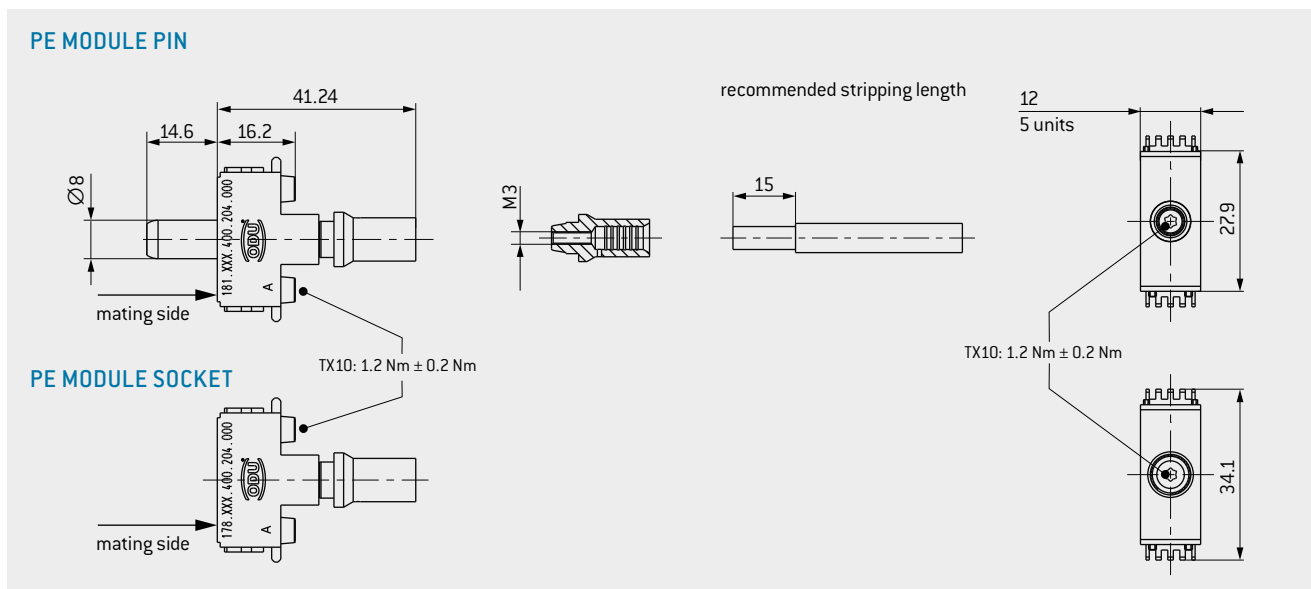
**PART NUMBER: 598.054.104.000.000**

For an overview of all tools please see [ODU-MAC® Blue-Line catalog](#).

The cross-section of a PE conductor must be designed in accordance with DIN EN 61984:2009-11 depending on the largest live conductor. The cross-section can be reduced from 25 mm<sup>2</sup>. This relationship is explained via the following table:

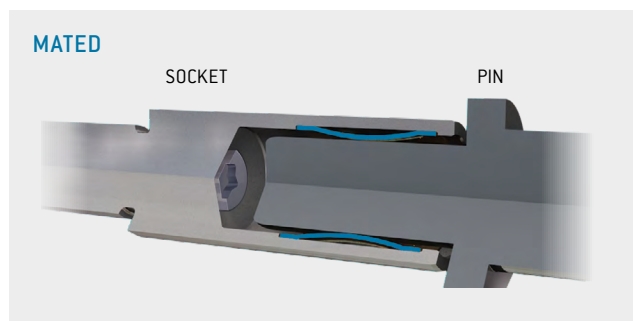
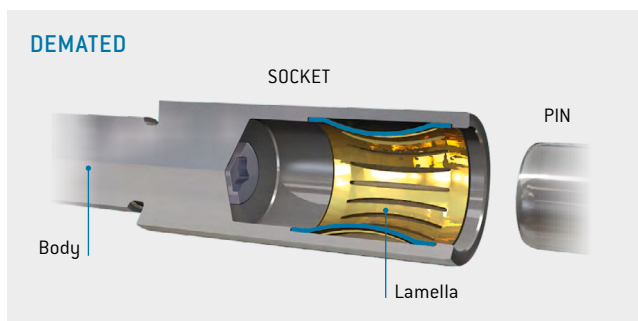
Nominal cross-section of the current-carrying conductor mm <sup>2</sup>	Minimum cross-section of the protective conductor in accordance with DIN EN 61984:2009-11 mm <sup>2</sup>
10	10
16 / 25 / 35	16
50	25

<sup>1</sup>Higher mating cycles are possible simply by replacing the module (including pin/socket from the rear). The termination area remains unaffected, because of two-part contact.



**ODU LAMTAC® (CONTACTS WITH LAMELLA TECHNOLOGY)**

In comparison to the ODU SPRINGTAC® contact, ODU LAMTAC® offers a lower number of contact surfaces. One or more of the stamped lamellas are mounted in a machined body. The contact resistance of 0.1 Ω required by the standard is easily achieved.



Description	Part number	Conductor cross-section <sup>1</sup>	Nominal current <sup>2</sup>	Impulse current	Contact resistance
		mm <sup>2</sup>	Single contact A		
PE module/Pin	181.869.400.204.000	25	125	> 20	< 0.1
PE module/Socket	178.869.400.204.000				
PE module/Pin	181.866.400.204.000	16	90	> 20	< 0.1
PE module/Socket	178.866.400.204.000				
PE module/Pin	181.872.400.204.000	10	65	> 20	< 0.1
PE module/Socket	178.872.400.204.000				
Conductor cross-section 35 / 50 mm <sup>2</sup>	On request				

<sup>1</sup> Extra fine wire acc. to IEC 60228:2004 (VDE 0295:2005-09; class5).

<sup>2</sup> Determined acc. to DIN EN 60512-5-1:2003-01 (DIN EN 60512-5-1:2003-01) at a temperature increase of 45 K.