



**1. General Remarks**

These connectors are designed and produced in conformity with the low voltage directive (73/23/EWG) respectively Gerätesicherheitsgesetz (German law) and are especially in accordance with the standards DIN EN 61984 / IEC 61984 (VDE0627); IEC 60664-1 (VDE 0110-1) and IEC 60529.

The connectors may be used only within the technical ratings.

All technical data refer to mated connectors under live conditions.

The safety of the connector system depends on the correct selection of products, proper assembly of the connector device and a precise fit of the connectors.

**2. Application Remarks**

Connectors with / without breaking capacity must be used according to specified technical ratings.

The technical data represents the initial value of mated parts under predetermined conditions and length of time. These values could change with different test parameters or product requirements.

The connectors of the eco|mate<sup>m</sup> series are designed for the areas of application including the construction and installation of controlling and electrical devices.

The product has been tested for the intended purposes only. If the connection is used other than originally intended, or in another manner that we have not previously tested, the consumer assumes full responsibility.

All rated data for the connectors listed in this catalogue are based on over-voltage category III <sup>1)</sup> and pollution degree 3 <sup>2)</sup> for electronic applications. Connectors were completely mated according to their respective safety locking mechanism. Selection and testing of connectors with / without breaking capacity to meet specific product or industrial requirements such as rated voltage and the related clearances and creepage distances are the responsibility of the user.

**3. Assembling Remarks**

Protection against electrical shock of the termination of the connectors shall be secured by correct mounting. Connectors of the same or different series being mounted side by side may be protected against incorrect mating by the use of coding options. Care must be taken to ensure the parts are correctly mated and screws are tightened with the proper torque.

**4. Termination Remarks**

Cable connectors are effectively secured when using the strain relief (internal strain relief clamp or clamping ring). When the connector contains a simple gland bushing for retention without clamping ring the cable should have a strain relief close behind the connector. All cable properties or specifications must be compatible with the connector design and materials.

Designated wire conductors must be terminated to the correct poles in the connector.

Crimp contacts must be fully inserted into the plastic housing and strain relief assured with a slight tug on the wire.

Wire should be stripped correctly according to printed specifications to insure no electrical contact can be made between the conductors. There should be no nicked or cut strains during the stripping action.

**5. Safety Classification acc. to DIN EN 61984 / VDE 0627 / IEC 61984**

Style	enclosed mated	enclosed unmated	protective earthing contact	finger safety mated	finger safety unmated	hand back safety mated	connector with breaking capacity <sup>1)</sup>	rewirable	Cable clamp	
									with	without
Male cable connector	•	•	•	•	NA	•	•	•	•	•
Female cable connector	•		•	•	•	•	•	•	•	•
Male receptacle screw / crimp	•	•	•	•	NA	•	•	•		•
Female receptacle screw / crimp	•		•	•	• <sup>3)</sup>	•	•	•		•
Male receptacle solder	•	•	•	• <sup>3)</sup>	NA	• <sup>3)</sup>	•	•		•
Female receptacle solder	•		•	• <sup>3)</sup>	• <sup>3)</sup>	• <sup>3)</sup>	•	•		•

<sup>1)</sup> Overvoltage category III: Equipment intended for the use in installations or parts of it in which lightning overvoltages do not need to be considered, however switching overvoltages generated by the equipment, and for cases where the reliability and the availability of the equipment or its dependent circuits are subject to special requirements. Examples are protecting means, switches and sockets.

<sup>2)</sup> Pollution degree 3: Conductive pollution occurs or dry non-conductive pollution occurs which becomes conductive due to condensation which is to be expected.

<sup>3)</sup> Protection against electrical shock of the termination of the connectors shall be secured by correct mounting.

NA ≙ not applicable