HENSEL

THE ELEKTRO Tipp

Customer information for electro-technical specialists

1/2010

Collection of new ideas in the Electrotechnical Industry

Dear Readers,

My name is Felix G. Hensel. For many years, as the 2nd generation in this position, I have headed the Gustav Hensel GmbH & Co. KG in Germany, a world leader in the area of industrial electrical power distribution systems.

For seven years now, we have been successfully represented on the Indian market by Hensel Electric India Pvt. Ltd.. Mr. R. Rajesh directs this successful subsidiary with almost 100 employees.

We are one of the pioneers in the area of plastic installation and distribution systems – and have set new standards in improved safety for persons and equipment in this field. We play a responsible part in the elaboration of international standards for safe products in electrical engineering.

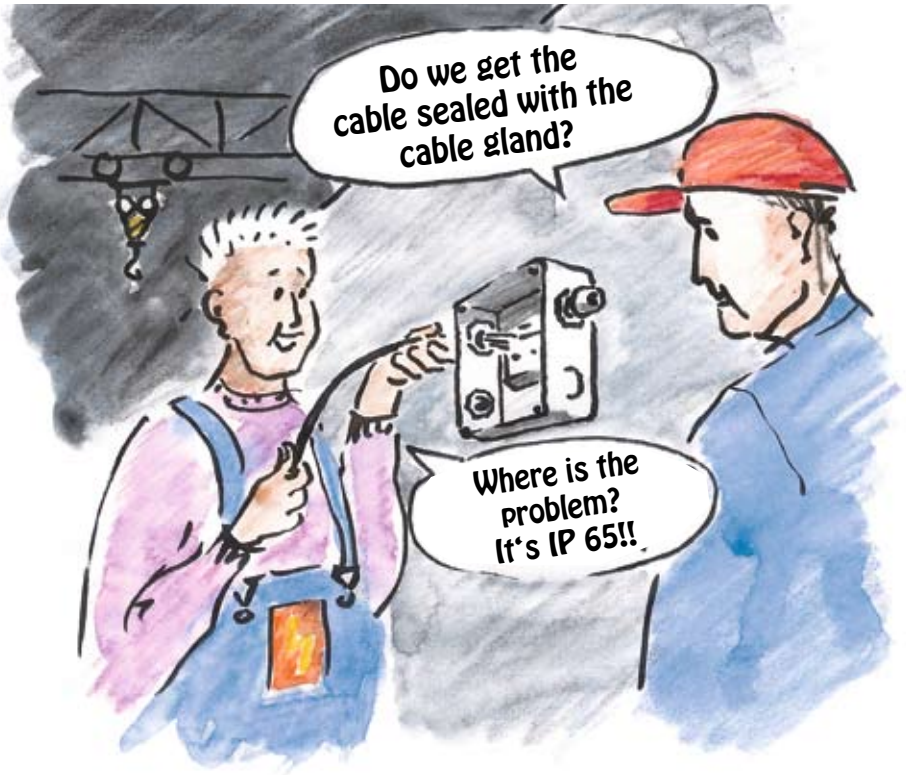
We care about your safety and also that of your staff and customers. This is why, with the help of Elektro-Tipp, we will provide important information for electrical specialists. We suggest you collect the issues of Elektro-Tipp, pass them on to your staff and let us have your suggestions for future articles.

We look forward to hearing from you – and also to working with you in the future as well!

Yours sincerely

F.G. Hensel.
Managing Director
Gustav Hensel GmbH & Co. KG

P.S.
In Germany, Elektro-Tipp has been published for more than 25 years – it appears quarterly and has a fine reputation among the experts.



Same degree of protection and nevertheless not safe?

Safety is guaranteed only by type tested, co-ordinated systems!

In the battle for the best prices safety often falls by the wayside.

The trend to always select the cheapest product from different product offers does not guarantee compliance with the protection objective ...

The protection against ingress of dust and humidity is indicated by the IP rating. Although all products might fulfill the desired protection individually, this can be perfectly different in an assembly to a complete installation.

What guarantees the compliance with the IP ratings?

Compliance with the IP ratings in an installation:

Industrial used systems are exposed to special ambient conditions and must be protected for safety reasons from external influences. Dust, dirt, moisture and water are environmental influences, which an industrially used product must resist problem-free.

IP ratings and standards define the characteristics, which a product ensures regarding protection against direct life parts, foreign body and water.

Which steps are necessary, in order to combine individual products to a safe system?

Correct	Incorrect

1. **All components** of a system must ensure the same degree of protection.

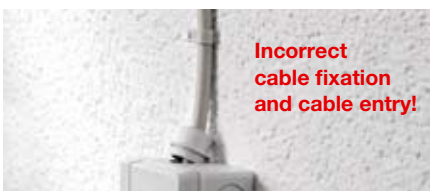
2. Cable gland and box:
   Hole diameter of cable glands and knockouts of boxes must fit proper.

3. Cable entry and cabel: Sealing ranges must be co-ordinated.

4. Adherence to the torques with box wall to cable gland and cable gland to cable.

5. Sealing of the wall mounting in the interior of the box with sealing caps.

6. Cable entry with strain relief and



Only co-ordinated systems guarantee safety ...

HENSEL

Elektroinstallations- und Verteilungssysteme

Here comes the sun!

NEW

ENYSUN is here at last. Now there is no longer any problem installing photovoltaic plants safely. Hensel has the correct solution. With ENYSUN, the safe photovoltaic distributors that comply with the standards, the plant is quickly, easily and safely installed, from the roof to the mains supply. Clear competitive advantages for you - from Hensel.

www.enysun.eu

ENYSUN

Photovoltaic distributors that meet the standards.

Visit us on the Elecrama 2010 in Mumbai, hall no. 1, booth no. H1D34.

The HENSEL solution: Co-ordinated products guarantee safety!

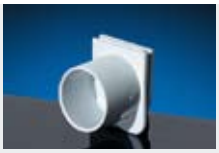
Hensel offers cable junction boxes and cable entry systems in degrees of protection IP 54, IP 55, IP 65, IP 66, IP 67:

IP 54

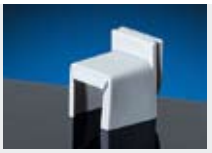
Cable junction boxes DP ... for cable trunking and conduit installation

cable entry via grommets, cables can be inserted from the front

DPS 02



ERA 20



EKA 20

IP 55

Cable junction boxes DE ...

Cable entry via elastic membranes

IP 55

Cable junction boxes D/K ...
Cable entry via metric knockouts and grommets ESM ...

ESM ...

IP 65

Cable junction boxes D/K ...
Cable entry via metric knockouts and cable glands AKM ...

AKM ...

IP 66

Cable junction boxes KF ...
“weatherproof”
for outdoor installation
(harsh environment and/or outdoor)
Cable entry viy metric knockouts and cable glands ASS ... resp. ASM ...

ASS ...

ASM ...

IP 67

Cable junction boxes KD ...
for offshore applications
Cable entry via metric knockouts and cable glands ASS ...

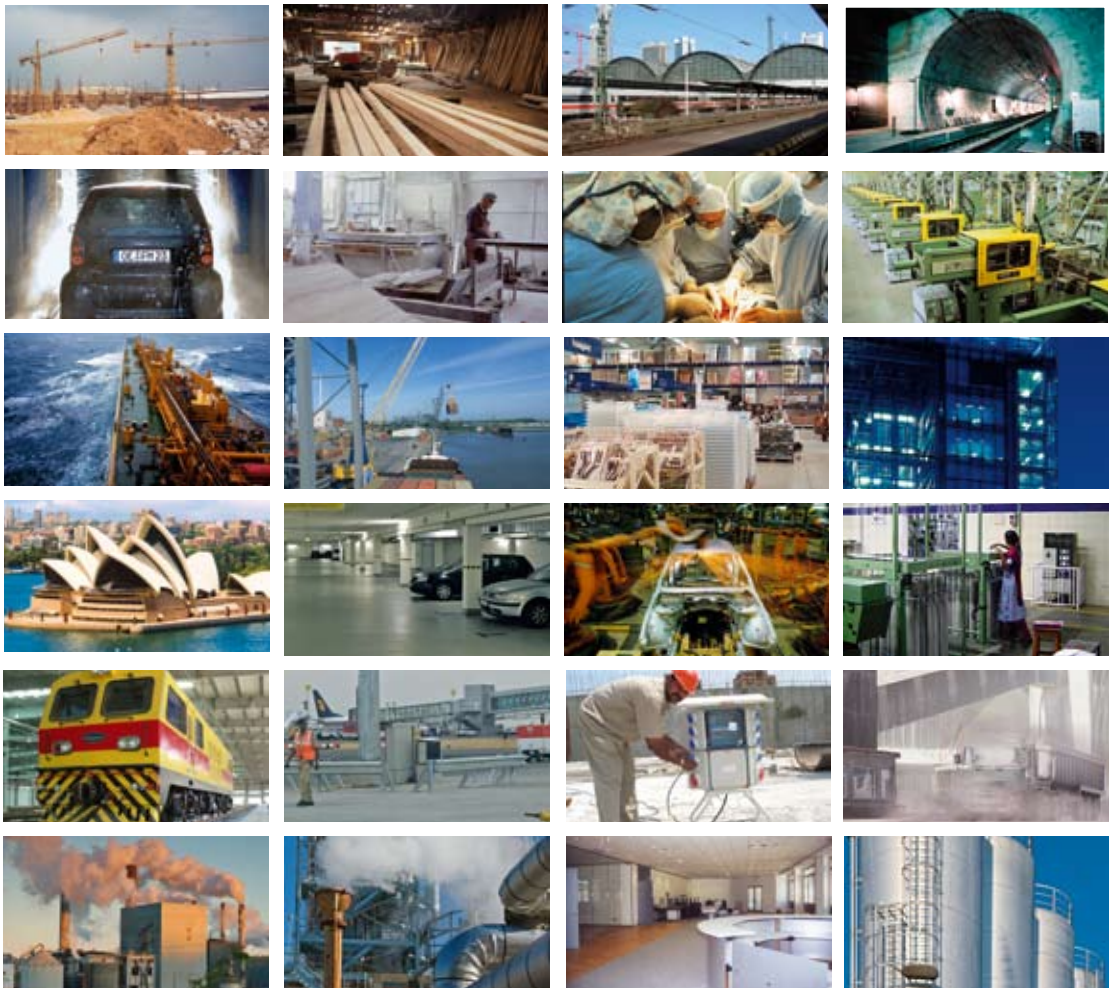
ASS ...

HENSEL guarantees safe and co-ordinated product systems from IP 54 to IP 67!

The degree of protection is one criterion for choosing the correct system.
Apart from the degree of protection, the following criteria have to be observed:

- **Ambient conditions**
  - **Ambient temperature**
  - **Humidity**
- **Material properties**
  - **Temperature resistance**
  - **Burning behaviour**
  - **Toxic behaviour**
  - **Chemical resistance**

Examples of different applications:



Delivery in India via Hensel authorized distributor network spanning 130 cities and industrial centers.

Delivery in South East Asia via Hensel authorized distributor network in all ASEAN countries.

ENYCASE
DK Cable junction boxes
1.5 to 240 mm², IP 54-67

ENYBOARD
KV Small-type distribution boards
3 to 54 modules, IP 54- 65

ENYSTAR®
Distribution boards
Combinable enclosure system with door up to 250 A, IP 65

ENYMOD
Mi Distribution boards
up to 630 A, IP 54-65

ENYFIT
Cable entry systems

ENYCON
Construction board panels
up to 630 A, IP 44-65

ENYSUN
Photovoltaik distributors that meet the standards

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