

|                           |                               |                                                                                     |
|---------------------------|-------------------------------|-------------------------------------------------------------------------------------|
| 53112543                  | <b>DATA SHEET</b>             |  |
| Valid from:<br>29.07.2025 | <b>SKINTOP® MS-HF-M BRUSH</b> |                                                                                     |

The SKINTOP® MS-HF-M BRUSH a nickel-plated brass cable gland especially designed for copper-screened cables, used to achieve a low-resistance screen contact, strain relief and high protection class.

The SKINTOP® MS-HF-M BRUSH contacts the screen much faster than any other system.



### Components:

|                                   |                                                  |
|-----------------------------------|--------------------------------------------------|
| Gland body                        | Brass, nickel-plated                             |
| Cap nut                           | Brass, nickel-plated                             |
| Insert with lamellar cage         | Polyamide,<br>Halogen free<br>V0 (acc. to UL 94) |
| Seal insert for the lamellar cage | Elastomer<br>Halogen free, flame retardant       |
| Contact brush                     | Brass wire                                       |
| O-ring                            | HNBR<br>Halogen free, flame retardant            |

### Technical features:

|                            |                                                                       |
|----------------------------|-----------------------------------------------------------------------|
| Connecting thread          | M16x1.5 up to M63x1.5 acc. to EN 60423                                |
| Protection class           | IP68 – 5 bar, test acc. to EN 60529                                   |
| Temperature range          | Dynamic     -25 °C up to +100 °C<br>Statically   -40 °C up to +100 °C |
| Transfer impedance         | ≤ 10 mOhm                                                             |
| Corrosion-protection class | C4                                                                    |

### Norm



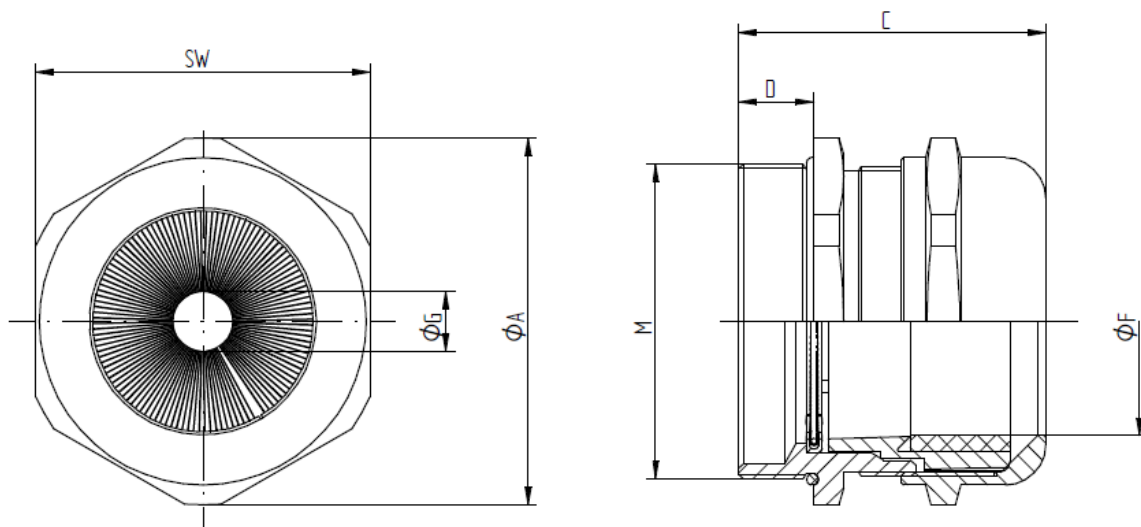
### Tested in according to:

DIN EN 45545-2: 2016-02 & 2020-10  
 “Railway applications – Fire protection to railway vehicles – Part 2: Requirements for fire behavior of materials and components.”  
 Test result: Hazard Level **HL3** acc. to DIN EN ISO 4589-2: 2006-06

DIN EN 45545-3: 2013-08  
 „Railway applications – Fire protection to railway vehicles – Part 3: Fire resistance requirements for fire barriers.“  
 Classification: **E30** acc. to DIN EN 13501-2: 2010-02

|                                            |                                       |             |
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| M       | SW [mm] | Ø A [mm] | C max. [mm] | D [mm] | Ø F [mm]<br>Clamping range | Ø G [mm]<br>over braiding | O-Ring [mm] | Article No. |
|---------|---------|----------|-------------|--------|----------------------------|---------------------------|-------------|-------------|
| M16x1,5 | 20      | 22       | 31          | 7      | 4,5-10                     | 2-6                       | 13x2        | 53112541    |
| M20x1,5 | 24      | 26,4     | 33          | 8      | 7-13                       | 3-9                       | 17x2        | 53112542    |
| M25x1,5 | 29      | 31,9     | 37          | 8      | 9-17                       | 6-13,5                    | 22x2        | 5311 2543   |
| M32x1,5 | 36      | 39,6     | 42,2        | 9      | 11-21                      | 8-18                      | 28x2        | 5311 2544   |
| M40x1,5 | 45      | 49,5     | 48          | 9      | 19-28                      | 10-26                     | 36x2        | 5311 2545   |
| M50x1,5 | 54      | 59,0     | 53,5        | 10     | 27-35                      | 14-33                     | 46x2        | 5311 2546   |
| M63x1,5 | 67      | 73,5     | 60          | 15     | 34-45                      | 20-40                     | 57x2        | 5311 2547   |

#### Recommended torque rates in acc. to EN 62444:

| Size    | Torque [Nm] |
|---------|-------------|
| M16x1,5 | 10          |
| M20x1,5 | 12          |
| M25x1,5 | 12          |
| M32x1,5 | 18          |
| M40x1,5 | 18          |
| M50x1,5 | 20          |
| M63x1,5 | 20          |

For more information please see our current catalogue. Please do not hesitate to contact our laboratory if there are any questions regarding resistance against aggressive agents and special oil.

|                                            |                                       |             |
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