

SKINTOP® MS-SC

Nickel-plated strain relief for EMC applications with NPT, PG & metric thread



SKINTOP® MS-SC is uniquely designed to address EMI concerns with its simplified grounding feature. In a few easy steps the cable is grounded, strain relieved, and sealed from moisture and dust in accordance with IP68. The cable glands' contact springs establish a continuous electrical path from the shield of the cable to the equipment ground, creating a secure shield connection.

Application advantage

- Optimal EMC protection
- Suitable for braid-shielded cable
- Minimal assembly steps
- The contact springs' unique design can accept cable diameters with wide dimensional tolerances
- Available in both standard and long length threads for heavy wall applications

Approvals: NPT



Approvals: PG



Approvals: metric



Technical data

Material:

- body: nickel-plated brass
- insert: polyamide
- bushing: CR
- O-ring: NBR

Locknuts:

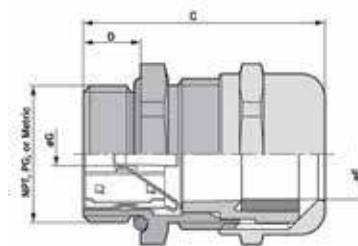
- PG & metric: add SKINDICHT® SM-PE, page 543

Temperature range:

- static: -40°C to +100°C
- dynamic: -25°C to +100°C

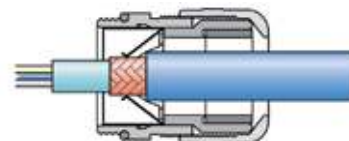
IP Protection:

- metric: IP69
- NPT & metric: NEMA 1, 4X, 6, 12

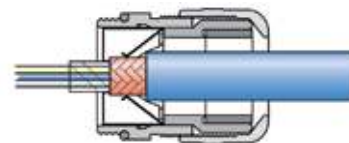


Assembly instructions

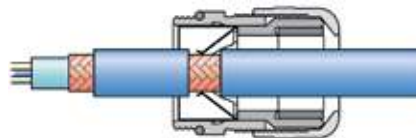
for standard contacting



for thin wires without an inner sheath



when routing cable screen to another connection



Complete the installation



SKINDICHT®
SM-PE locknuts
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SKINTOP® MS-SC NPT

| Part number | Thread | Clamping range (øF) | | Wrenching flats (SW) in | Overall length (C) in | Thread length (D) in | Min ø above braiding in | Pack size |
|-------------|------------|---------------------|----------|----------------------------|--------------------------|-------------------------|----------------------------|-----------|
| | | in | mm | | | | | |
| Standard | | | | | | | | |
| 53112910 | NPT 3/8" | 0.177 - 0.394 | 4.5 - 10 | 0.788 | 1.564 | 0.591 | 0.158 | 100 |
| 53112920 | NPT 1/2" | 0.276 - 0.512 | 7 - 13 | 0.945 | 1.674 | 0.591 | 0.197 | 50 |
| 53112930 | NPT 3/4" | 0.354 - 0.669 | 9 - 17 | 1.142 | 1.753 | 0.591 | 0.296 | 25 |
| 53112940 | NPT 1" | 0.433 - 0.827 | 11 - 21 | 1.418 | 1.930 | 0.591 | 0.355 | 25 |
| 53112950 | NPT 1 1/4" | 0.748 - 1.103 | 19 - 28 | 1.773 | 2.264 | 0.669 | 0.591 | 10 |
| 53112960 | NPT 1 1/2" | 1.063 - 1.379 | 27 - 35 | 2.127 | 2.423 | 0.669 | 0.827 | 5 |

SKINTOP® MS-SC & MS-SCL

| Part number | Thread | Clamping range (øF) | | Wrenching flats (SW) in | Overall length (C) in | Thread length (D) in | Min ø above braiding in | Pack size |
|-------------|--------|---------------------|---------|----------------------------|--------------------------|-------------------------|----------------------------|-----------|
| | | in | mm | | | | | |
| Standard | | | | | | | | |
| 53112210 | PG 9 | 0.118 - 0.315 | 3 - 8 | 0.669 | 1.142 | 0.236 | 0.158 | 50 |
| 53112220 | PG 11 | 0.157 - 0.394 | 4 - 10 | 0.787 | 1.260 | 0.236 | 0.158 | 50 |
| 53112230 | PG 13 | 0.197 - 0.472 | 5 - 12 | 0.866 | 1.339 | 0.256 | 0.158 | 25 |
| 53112240 | PG 16 | 0.315 - 0.551 | 8 - 14 | 0.945 | 1.378 | 0.256 | 0.236 | 25 |
| 53112250 | PG 21 | 0.433 - 0.709 | 11 - 18 | 1.181 | 1.575 | 0.276 | 0.315 | 25 |
| 53112260 | PG 29 | 0.630 - 0.985 | 16 - 25 | 1.575 | 1.890 | 0.315 | 0.512 | 10 |
| 53112270 | PG 36 | 0.748 - 1.260 | 19 - 32 | 1.969 | 2.441 | 0.591 | 0.630 | 5 |
| Long thread | | | | | | | | |
| 53112310 | PG 9 | 0.118 - 0.315 | 3 - 8 | 0.669 | 1.378 | 0.472 | 0.158 | 50 |
| 53112320 | PG 11 | 0.157 - 0.394 | 4 - 10 | 0.787 | 1.496 | 0.472 | 0.158 | 50 |
| 53112330 | PG 13 | 0.197 - 0.472 | 5 - 12 | 0.866 | 1.555 | 0.472 | 0.158 | 25 |
| 53112340 | PG 16 | 0.315 - 0.551 | 8 - 14 | 0.945 | 1.594 | 0.472 | 0.236 | 25 |
| 53112350 | PG 21 | 0.433 - 0.709 | 11 - 18 | 1.181 | 1.772 | 0.472 | 0.315 | 25 |
| 53112360 | PG 29 | 0.630 - 0.985 | 16 - 25 | 1.575 | 2.047 | 0.591 | 0.512 | 10 |

SKINTOP® MS-M-SC & MS-M-SCL

| Part number | Thread | Clamping range (øF) | | Wrenching flats (SW) in | Overall length (C) in | Thread length (D) in | Min ø above braiding in | Pack size |
|-------------|-----------|---------------------|---------|----------------------------|--------------------------|-------------------------|----------------------------|-----------|
| | | in | mm | | | | | |
| Standard | | | | | | | | |
| 53112610 | M12 x 1.5 | 0.137 - 0.276 | 3.5 - 7 | 0.630 | 1.043 | 0.256 | 0.079 | 50 |
| 53112620 | M16 x 1.5 | 0.177 - 0.354 | 4.5 - 9 | 0.788 | 1.299 | 0.276 | 0.158 | 50 |
| 53112630 | M20 x 1.5 | 0.276 - 0.512 | 7 - 13 | 0.945 | 1.457 | 0.315 | 0.197 | 25 |
| 53112640 | M25 x 1.5 | 0.354 - 0.669 | 9 - 17 | 1.142 | 1.516 | 0.315 | 0.296 | 25 |
| 53112650 | M32 x 1.5 | 0.433 - 0.827 | 11 - 21 | 1.418 | 1.791 | 0.354 | 0.355 | 25 |
| 53112660 | M40 x 1.5 | 0.748 - 1.103 | 19 - 28 | 1.773 | 1.890 | 0.354 | 0.591 | 10 |
| 53112670 | M50 x 1.5 | 1.063 - 1.379 | 27 - 35 | 2.127 | 2.185 | 0.394 | 0.827 | 5 |
| Long thread | | | | | | | | |
| 53112615 | M12 x 1.5 | 0.137 - 0.276 | 3.5 - 7 | 0.630 | 1.260 | 0.472 | 0.039 | 50 |
| 53112625 | M16 x 1.5 | 0.177 - 0.354 | 4.5 - 9 | 0.788 | 1.496 | 0.472 | 0.158 | 50 |
| 53112635 | M20 x 1.5 | 0.276 - 0.512 | 7 - 13 | 0.945 | 1.614 | 0.472 | 0.197 | 25 |
| 53112645 | M25 x 1.5 | 0.354 - 0.669 | 9 - 17 | 1.142 | 1.673 | 0.472 | 0.296 | 25 |
| 53112655 | M32 x 1.5 | 0.433 - 0.827 | 11 - 21 | 1.418 | 2.028 | 0.591 | 0.355 | 25 |
| 53112665 | M40 x 1.5 | 0.748 - 1.103 | 19 - 28 | 1.773 | 2.126 | 0.591 | 0.591 | 10 |
| 53112675 | M50 x 1.5 | 1.063 - 1.379 | 27 - 35 | 2.127 | 2.382 | 0.591 | 0.827 | 5 |