

- Softer material for better strain relief
- Ultra-high shrink ratio: up to 20:1
- Less assembly time
- Rework made easier
- No build-up taping or feeding wire through a small grommet opening
- Typical installation in just 10-20 seconds
- Re-expandable I.D. allows wire addition to a cable bundle
- Meets SAE-AS81765/1 Type II

shrinkHOoP™

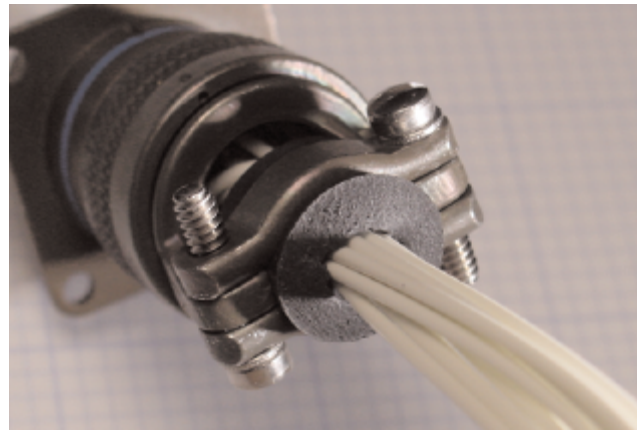
URHR

Cable clamp heat shrink grommet

A shrinkHOoP grommet (URHR) is a high ratio heat-shrinkable-strain-relief grommet that can be placed over the cable assembly after the connector pinning operation is completed. The ultra-high expansion ratio material conveniently fills the space between the clamp type connector accessory and the cable. When clamped into position, URHR grommet provides strain relief that is more consistent and convenient than many conventional practices—for example, taping, grommet, or tape/ grommet combination. The high ratio conformity of URHR grommets will match most typical

cable configurations from single conductor to the high density multiple conductor arrangements.

With URHR grommets, repair or rework is a snap—simply heat the grommet until soft and slide a NON-METALLIC probe through the center of the wire bundle enlarging the grommet I.D. Once cooled, the grommet will remain open allowing wires to be added, removed or reworked. The system can then be checked, the grommet reheated (shrinking it down again), positioned, and clamped in place.



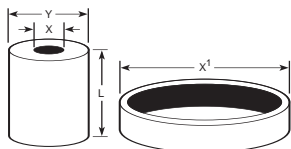
Temperature ratings

Operating temperature range -55°C to 135°C

Specifications and approvals

Refer to Tyco Electronics/Raychem Specification Control Drawing, URHR-X

Dimensions inches (millimeters)



| Part Number | I.D. Expanded (X') | I.D. Recovered (X) | O.D. (Y) | Length (L) | Weight (grams) |
|-------------|--------------------|--------------------|------------|------------|----------------|
| URHR-2 | 1.23 (31) | 0.10 (2.5) | 0.375 (10) | 0.5 (13) | 1 |
| URHR-3 | 1.44 (37) | 0.14 (3.5) | 0.5 (13) | 0.5 (13) | 1.5 |
| URHR-4 | 1.85 (47) | 0.18 (4.6) | 0.562 (14) | 0.75 (19) | 3.5 |

Notes:

1. Recovered length will allow for 0.075" either side of the collar, minimum.
2. Recovered I.D. will conform to all wire arrangements available in the connector size.
3. URHR rings can be made to fit any connector size—consult factory.

Typical shrinkHOoP grommet performance

| | Property | Performance | Test method |
|--------------------------------------|--|---|----------------------|
| Physical | Tensile strength | 1200 psi (8.3 Mpa) minimum | ASTM D-412 |
| | Ultimate elongation | 250% minimum | ASTM D-412 |
| | Specific gravity | 1.4 maximum | ASTM D-792 |
| | Water absorption | 0.5 % maximum | ASTM D-570 |
| | Hardness | 35 ± 5 Shore D | ASTM D-2240 |
| | Flammability | Pass Pass | ASTM D-635 FAR-25 |
| | Corrosion resistance | Pass | MIL-I-81765 |
| | Low temperature flex 4 hours at - 67+/-2°F (- 55+/-1°C) | Pass | MIL-I-81765 |
| | Heat resistance 168 hrs at 347+/-2°F (175+/-1°C) | 200% ultimate elongation, minimum 1000 psi (6.9 Mpa) tensile strength, minimum | MIL-I-81765 |
| | Heat shock 4 hrs at 437+/-5°F (225+/-2°C) | No cracking, dripping or flowing | MIL-I-81765 |
| Elastic Memory | 275% minimum expansion to 4 inch (10 cm) of a fully recovered test specimen, and 93% recovery of expanded specimen after oven conditioning for 1 minute at 302 +/- 4°F (150+/-2°C) | | |
| Electrical | Dielectric strength | 200 v/mil (7880 v/mm) minimum | ASTM D-149 |
| | Volume resistivity | 10 ¹² ohm-cm minimum | ASTM D-257 |
| Chemical Fluid Resistance | 200% ultimate elongation, minimum 750 psi (5.2 Mpa) tensile strength, minimum | | MIL-I-81765 |

Selection chart

| Connector series | | Connector Size | | | | |
|-------------------------------|----------------------------------|----------------|-------------------|--------------------|--------------------|-------------|
| | | 8 (9) | 10,12 (11, 13) | 14, 16 (15, 17) | 18, 20 (19, 21) | 22, 24, 28* |
| MIL-C-5015 | MS3451, 52, 56, 59 | * | 2 | 3 | 4 | * |
| | MS3450 | 2 | 3 | 4 | * | * |
| MIL-C-26500** | MS24266 | * | 2 | 3 | 4 | * |
| | MS24264, 265 | 2 | 3 | 4 | * | * |
| MIL-C-26482 | MS3120, 21, 22, 26 | * | 2 | 3 | 4 | * |
| | MS3470, 71,74 75, 76 | * | 2 | 3 | 4 | * |
| | MS3124, MS3472 | 2 | 3 | 4 | * | * |
| MIL-C-83723 Series 1 | M83723/01 & 02, 05 & 06 | * | 2 | 3 | 4 | * |
| | 07 & 08, 13 & 14,23 & 24 | * | 2 | 3 | 4 | * |
| | M83723/03 & 03 | 2 | 3 | 4 | * | * |
| MIL-C-83723 Series II | M83723/17 & 18, 23 & 24 | * | 2 | 3 | 4 | * |
| | M83723/12 & 20, 21, & 22 | 2 | 3 | 4 | * | * |
| MIL-C-83723 Series III | M83723/71 & 72 thru 97 & 98 | * | 2 | 3 | 4 | * |
| | M83723/66, 67, 68 & 69 | 2 | 3 | 4 | * | * |
| MIL-C-38999 Series | MS27469 | * | 2 | 3 | 4 | * |
| | MS27466, 68, 96, 27505, 27656 | 2 | 3 | 4 | * | * |
| MIL-C-38999 Series II | MS27472, 97, 98, 27508, 27513 | * | 2 | 3 | 4 | * |
| | MS27473, 84, 27474 | 2 | 3 | 4 | * | * |
| MIL-C-38999 Series III | 38999/26 | * | 2 | 3 | 4 | * |
| | 38999/20, 24 | 3 | 4 | * | * | * |
| Boeing | BACC45, F, M, N, P, R, S, T | — | 2 | 3 | 4 | * |
| | BACC 63X | — | 3 | 4 | * | * |
| Boeing | DC39, 31, 34, 35, 50-57 | * | 2 | 3 | 4 | * |
| | DC32, 33, 36, 37, 60, 61, 62, 63 | 2 | 3 | 4 | * | * |

*Consult Tyco Electronics for availability of additional sizes.

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