

Fax-on-Demand: (800) 260-9099
(650) 361-6523

FAX ID Description
2570 Data sheet

Before ordering check with factory for most current data.

RayBlock 105

Heat-shrinkable water-blocking system

Applications

Designed to provide consistent sealing for cable bundles and the back of connectors. The wires in the bundle are placed within the channels of a specially formulated hot-melt adhesive profile, and then covered by dual-wall, heat-shrinkable tubing with a flame-retardant radiation-crosslinked outer wall and hot-melt-adhesive inner wall. When the tubing is heated, the hot-melt adhesive melts and the tubing shrinks, forcing the molten adhesive to fill all the voids within the wire bundle and tubing. The result is a solid plug of adhesive molded around each wire in the bundle, creating a moisture-resistant seal.

Operating Temperature Range

-40°C to 105°C

Features/Benefits

- Environmentally seals wire bundles of up to 20 wires.
- Withstands temperature excursions to 120°C.
- Provides excellent strain relief and reduces noise.
- Offers a low-profile installed product only marginally larger than the cable bundle itself.



Installation

Minimum shrink temperature: 80°C

Minimum full recovery temperature: 110°C

Specifications/Approvals

| | |
|---------------|------------------|
| Series | Raychem |
| RayBlock 105 | RayBlock 105 SCD |
| | RW-2102 |

Product Dimensions (mm/in)

| Part number | No. of channels | Profile | | Width | Tubing | | |
|--------------------------|-----------------|------------|-------------|--------------|------------------------------|---------------------------------|-----------|
| | | Height | Length | | Minimum expanded as supplied | Maximum recovered after heating | Length |
| RayBlock 105 Kit 0102-A0 | 2 | 6.5 (.256) | 2.75 (.108) | 8.50 (.335) | 12.0 (.472) | 3.0 (.118) | 40 (1.57) |
| RayBlock 105 Kit 0103-A0 | 3 | 6.5 (.256) | 2.75 (.108) | 12.25 (.482) | 16.0 (.630) | 4.0 (.158) | 40 (1.57) |
| RayBlock 105 Kit 0504-A0 | 4 | 6.5 (.256) | 2.75 (.108) | 16.0 (.630) | 16.0 (.630) | 4.0 (.158) | 45 (1.77) |
| RayBlock 105 Kit 0105-A0 | 5 | 6.5 (.256) | 2.75 (.108) | 19.75 (.778) | 24.0 (.945) | 6.0 (.236) | 45 (1.77) |
| RayBlock 105 Kit 0107-A0 | 7 | 6.5 (.256) | 2.75 (.108) | 27.25 (1.07) | 24.0 (.945) | 6.0 (.236) | 65 (2.56) |
| RayBlock 105 Kit 0110-A0 | 10 | 6.5 (.256) | 2.75 (.108) | 38.50 (1.52) | 32.0 (1.26) | 8.0 (.315) | 65 (2.56) |

Ordering Information

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|--------------------|--|
| Color | Standard Black (-0) |
| Size selection | For wire with an outside diameter smaller than 2.8 mm (.110 inch), use a maximum of two wires per channel. For wire with an outside diameter of 2.8–3.5 mm (.110–.138 inch), use a maximum of one wire per channel. |
| Standard packaging | One kit (contains 1000 pcs. of profile and 1000 pcs. of tubing). |

RayBlock is a trademark of Raychem Corporation.

Users should independently evaluate the suitability of the product for their application.