

RayBlock 85

Heat-Shrinkable Water-Blocking System

Product Facts

- Environmentally seals wire bundles of up to 20 wires
- Withstands temperature excursions to 105°C [221°F]
- Provides excellent strain relief and reduces noise
- Offers a low-profile installed product only marginally larger than the cable bundle itself
- RoHS compliant



Applications

Designed to provide consistent sealing for cable bundles and the back of connectors. The wires are placed within the channels of a specially formulated hot-melt adhesive profile, 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.

Installation

Minimum shrink temperature: 80°C [176°F]
 Minimum full recovery temperature: 110°C [230°F]

Operating Temperature Range

-40°C to 85°C
 [-40°F to 185°F]

Specifications/Approvals

| | |
|---------------|----------------------------|
| Series | Raychem |
| RayBlock 85 | RayBlock 85 SCD RW-2101 |

| | | | |
|----------------------|-----------------|---------------|---------------------|
| Available in: | Americas | Europe | Asia Pacific |
| | ■ | ■ | ■ |

RayBlock 85 (Continued)

Product Dimensions

| Part No. | No. of Channels | Profile | | | Tubing Inside Diameter | | |
|-------------------------|-----------------|----------------|--------------|---------------|------------------------------|---------------------------------|----------------|
| | | Outside Height | Length | Width | Minimum Expanded as Supplied | Maximum Recovered After Heating | Nominal Length |
| RayBlock 85 Kit 0102-A0 | 2 | 8.5 [0.335] | 2.75 [0.108] | 8.50 [0.335] | 12.0 [0.472] | 3.0 [0.118] | 40 [1.57] |
| RayBlock 85 Kit 0203-A0 | 3 | 8.5 [0.335] | 2.75 [0.108] | 12.25 [0.482] | 24.0 [0.945] | 6.0 [0.236] | 47 [1.85] |
| RayBlock 85 Kit 0504-A0 | 4 | 8.5 [0.335] | 2.75 [0.108] | 16.00 [0.630] | 16.0 [0.630] | 4.0 [0.158] | 40 [1.57] |
| RayBlock 85 Kit 0405-A0 | 5 | 8.5 [0.335] | 2.75 [0.108] | 19.75 [0.778] | 24.0 [0.945] | 6.0 [0.236] | 45 [1.77] |
| RayBlock 85 Kit 0107-A0 | 7 | 8.5 [0.335] | 2.75 [0.108] | 27.25 [1.070] | 24.0 [0.945] | 6.0 [0.236] | 65 [2.56] |
| RayBlock 85 Kit 0510-A0 | 10 | 8.5 [0.335] | 2.75 [0.108] | 38.50 [1.520] | 32.0 [1.260] | 8.0 [0.315] | 55 [2.17] |

Ordering Information

| Color | Standard | Black (-0) |
|--------------------|--|------------|
| Size selection | For wire with an outside diameter smaller than 2.8 [0.110] , use a maximum of two wires per channel. For wire with an outside diameter of 2.8–3.5 [0.110 to 0.138], use a maximum of one wire per channel. Special order sizes are available upon request. | |
| Standard packaging | One kit (contains 1000 pcs. of profile and 1000 pcs. of tubing). | |

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