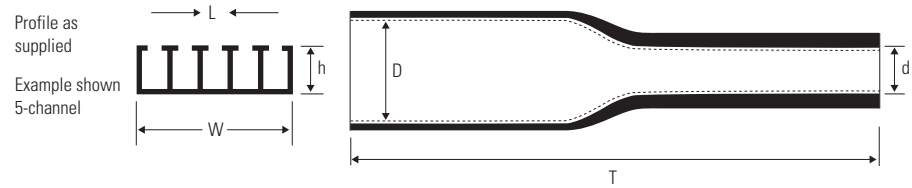


Heat-shrinkable water blocking systems for cable bundles and multi-wire electrical connectors up to 20 wires



- **Excellent resistance to all common solvents and acids**
- **Outstanding vibration resistance**
- **Excellent electrical insulation**
- **Simple, reliable installation with Raychem designed application equipment**

RayBlock-85 is designed to give consistent sealing for cable bundles and for multi-wire connectors, both large and small. The wires in the bundle are placed within the channels of a hot-melt adhesive profile, then covered by a piece of adhesive lined heat-shrinkable tubing. On heating, the profile melts and is squeezed around and between the wires by the shrinking action of the outer sleeve, creating a moisture-proof seal. The installed product is round and concentric, allowing easy positioning of other harness components such as feedthroughs and grommets. The overall diameter of the installed RayBlock is only marginally greater than the cable bundle itself. Installation is simple and may be carried out off-line, or on the harness board itself.

**Ordering information**

Profile		Tubing					Ordering description
Number of channels	h (nom) mm	L (nom) mm	W (nom) mm	D (min) mm	d (max) mm	T (nom) mm	
2	8.5	2.75	8.50	12.00	3.00	34.00	RBK-85 Kit 0102-AX
3	8.5	2.75	12.25	16.00	4.00	33.00	RBK-85 Kit 0103-AX
4	8.5	2.75	16.00	16.00	4.00	44.00	RBK-85 Kit 0104-AX
5	8.5	2.75	21.00	24.00	6.00	34.00	RBK-85 Kit 0105-AX
5	8.5	2.75	21.00	24.00	6.00	23.00	RBK-85 Kit 0305-AX
7	8.5	2.75	27.25	24.00	6.00	65.00	RBK-85 Kit 0107-AO
7	8.5	2.75	27.25	24.00	6.00	23.00	RBK-85 Kit 0607-AX
8	8.5	2.75	31.00	24.00	6.00	47.00	RBK-85 Kit 0208-AX
10	8.5	2.75	38.50	32.00	8.00	55.00	RBK-85 Kit 0510-AO

The selection table is intended for guidance only and individual bundles may well differ in requirement. Special designs may be possible on request to cater for large wires or larger cable bundles. Please contact Tyco Electronics Protection Products Division for further information. Maximum two wires per channel, for wires with maximum outside diameter 2.8 mm. For wires with an outside diameter greater than 2.8 mm, please consult Tyco Electronics. Standard packaging: 1000 pcs of profile plus 1000 pcs of tubing per box. Tyco Electronics offers a variety of heating tools for the installation of RayBlock-85. The range includes hot-air blowers, infra-red heaters and special automatic heating devices.

**Standard colours**

Colour	Black	Clear
Code	0	X

**Performance**

Physical	Sealing performance:	No leakage at +23°C after 1 min at 0.5 bar air pressure
	Heat ageing:	No deterioration in sealing performance after 3000 h at +85°C
	Cold impact:	No cracking and no deterioration in sealing performance after 4 h at -40°C
Fluid	Resistance:	No deterioration in sealing performance after 24 h immersion at +23°C in:
		Brake fluid SAE 1703
		Anti-freeze 50/50 v/v
		Engine oil SAE 10 W/40
		Diesel fuel to BS2869
		Car wash detergent
Sequential	Product must pass sealing and electrical performance tests as specified in RW 2101 after the following programme:	
	Thermal shock:	50 cycles at -40°C to +105°C, 30 min at each temperature, then:
	Sinusoidal vibration:	8 h test in two orthogonal directions, 10-25 Hz at 1 g acceleration and 25-500 Hz at 4.5 g acceleration, then:
	Petrol immersion:	1 h total immersion in 100 octane petroleum spirit, then:
	Temperature/humidity cycle:	10 cycles of:
		16 h at +40°C in 95% relative humidity
		2 h at -40°C
	2 h at +85°C	
	4 h at +23.5°C	
For full product performance details consult Raychem Specification RW 2101 and SCD.		

**Specifications**

Raychem Specification RW 2101 and SCD  
Material Safety Data Sheet available on request.

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