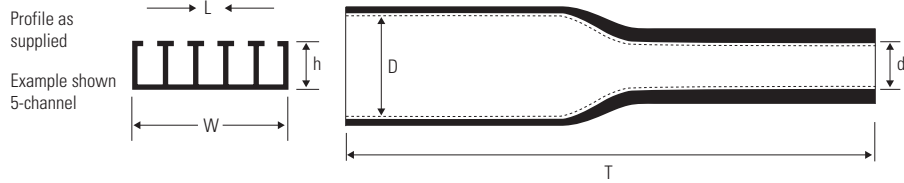


Heat-shrinkable water blocking systems for cable bundles and multi-wire electrical connectors up to 20 wires



Ordering information

Profile	Tubing						Ordering description
	h	L	W	D	d	T	
Number of channels	(nom) mm	(nom) mm	(nom) mm	(min) mm	(max) mm	(nom) mm	
2	8.5	2.75	8.50	12.00	3.00	55.00	RBK-105 Kit 0702-A0
2	8.5	2.75	8.50	19.00	4.00	50.00	RBK-105 Kit 1102-A0
3	8.5	2.75	12.25	16.00	4.00	40.00	RBK-105 Kit 0103-A0
3	8.5	2.75	12.25	16.00	4.00	50.00	RBK-105 Kit 1003-A0
4	8.5	2.75	16.00	16.00	4.00	33.00	RBK-105 Kit 0204-A0
5	8.5	2.75	19.75	24.00	6.00	45.00	RBK-105 Kit 0105-A0
7	8.5	2.75	27.25	24.00	6.00	65.00	RBK-105 Kit 0107-A0
8	8.5	2.75	31.00	24.00	6.00	47.00	RBK-105 Kit 0508-A0
10	8.5	2.75	38.50	32.00	8.00	65.00	RBK-105 Kit 0110-A0
10/7	8.5	2.75	38.50/28.60	32.00	8.00	60.00	RBK-105 Kit 0510-A0

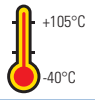
The selection table is intended for guidance only and individual bundles may well differ in requirement. Special designs may be possible on request to cater for large wires or larger cable bundles. Please contact Tyco Electronics Protection Products Division for further information. Maximum two wires 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 manufacture a variety of heating tools for the installation of RayBlock-105. 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 +105°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 10W/40	
		Diesel fuel to BS2869	
		Car wash detergent	
Sequential	Product must pass sealing and electrical performance tests as specified in RW 2102 after the following programme:		
	Thermal shock:	50 cycles at -40°C to +120°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 +105°C			
		4 h at +23.5°C	

For full product performance details consult Raychem Specification RW 2102 and SCD.

Specifications	Raychem Specification RW 2102 and SCD. Material Safety Data Sheet available on request.
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- **Excellent resistance to all common solvents and acids**
- **Outstanding vibration resistance**
- **Excellent electrical insulation**
- **Simple, reliable installation with Raychem designed application equipment**

RayBlock-105 is designed to give consistent sealing for cable bundles and 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 to be squeezed around and between the wire 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 as required.

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