

## Reliable Sensor Cables For Tough Processes



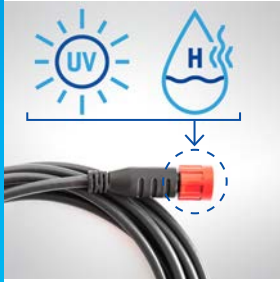
### Reliable and Robust ISM Cables

Dependable, noise-free digital signal transmission from ISM sensors to transmitters with internal cable shielding and robust coupling nut.



### Resistant to Tough Processes

Provides reliable cable connection in high temperature processes (up to 105°C/221 °F), acidic vapors or mechanically stressed applications.



### For Outdoor Use

Withstands exposure to sunshine, UV radiation, rain and humidity.



### Greater Process Reliability

With ISM, METTLER TOLEDO's digital sensor technology, maintenance becomes predictable, sensor handling is simple, and production becomes more efficient.



### ISM Sensor Cables

#### Long Lifetime in Harsh Applications

Reliably interconnecting from the sensor to the transmitter plays an important role in providing consistent process measurements. Intelligent Sensor Management (ISM™) sensor cables ensure noise-free, reliable signal transfer and offer long cable life due to internal shielding and a robust coupling nut. The coupling nut is manufactured out of PEEK; one of the most durable and chemically resistant polymer materials, which can withstand high temperatures, UV, acidic vapors and mechanical stress.

**Standard ISM Cables:**

- Temperature range: –40 to 80 °C (–40 to 176 °F)

Material Number	Material Description
59 902 189	Cable AK9/0.6m (2ft)
59 902 167	Cable AK9/1m (3.3 ft)
59 902 193	Cable AK9/3m (9.8 ft)
59 902 213	Cable AK9/5m (16.4 ft)
59 902 230	Cable AK9/10m (32.8 ft)
52 300 204	Cable AK9/20m (65.6 ft)
52 300 393	Cable AK9/30m (98.4 ft)
52 300 394	Cable AK9/50m (164 ft)
52 300 395	Cable AK9/80m (262.5 ft)

**High-temperature (HT) ISM Cables:**

- Temperature range: –35 to 105 °C (–31 to 221 °F)

Material Number	Material Description
59 902 218	Cable AK9/5m-HT (16.4 ft)
59 902 234	Cable AK9/10m-HT (32.8 ft)

**Cross Reference Table: AK9 Cables with K9 or K8S Connector**

Termination		Tinned Ends											
		0.6 m (2 ft)	1 m (3.3 ft)	3 m (9.8 ft)	5 m (16.4 ft)	10 m (32.8 ft)	20 m (65.6 ft)	30 m (98.4 ft)	50 m (164 ft)	80 m (262.5 ft)	5 m (16.4 ft)	10 m (32.8 ft)	
Temperature Range		–40 to 80 °C (–40 to 176 °F)									–35 to 105 °C (–31 to 221 °F)		
ISM Sensors	pH	pH/ORP ISM (1-wire)	•	•	•	•	•	•	•	•	•	•	•
	DO/O <sub>2</sub>	DO ISM (1-wire)	•	•	•	•	•	•	•	•	•	•	•
		InPro 6850i	•	•	•	•	•	•	•	•	•	•	•
		InPro 6900i	•	•	•	•	•	•	•	•	•	•	•
	InPro 6950i	•	•	•	•	•	•	•	•	•	•	•	
	O <sub>2</sub> Gas ISM (1-wire)	•	•	•	•	•	•	•	•	•	•	•	
	CO <sub>2</sub>	InPro 5000i	•	•	•	•	•	•	•	•	•	•	
Cond	InPro 7000i	•	•	•	•	•	•	•	•	•	•		
AK9 Cable Order Number		55 902 189	59 902 167	59 902 193	59 902 213	59 902 230	52 300 204	52 300 393	52 300 394	52 300 395	59 902 218	59 902 234	

▶ [www.mt.com/ISM](http://www.mt.com/ISM)

**METTLER TOLEDO Group**

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