

Overview



The actuator-sensor interface - the networking system used for the lowest field area - is characterized by very easy mounting and installation. A new connection method was developed specially for AS-Interface.

The stations are connected using the AS-Interface cable. This two-wire cable has a trapezoidal shape, thus ruling out polarity reversal.

Connection is effected by the insulation piercing method. In other words, male contacts pierce the shaped AS-Interface cable and make reliable contact with the two wires. Cutting to length and stripping are superfluous. Consequently, AS-Interface stations (e.g. I/O modules, intelligent devices) can be connected in the shortest possible time and exchanging devices is quick.

To enable use in the most varied ambient conditions (e.g. in an oily environment), the AS-Interface cable is available in different materials (rubber, TPE, PUR).

For special applications it is also possible to use a standard round cable. With AS-Interface, data and power for the sensors (e.g. BERO proximity switches) and actuators (e.g. indicator lights) are transmitted over the yellow AS-Interface cable.

The black cable must be used for actuators with a 24 V DC supply (e.g. solenoid valves) and a high power requirement.

Selection and ordering data



Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
AS-Interface shaped cables							
Material	Color	Quantity					
Rubber	Yellow (AS-Interface)	100-m roll	▶	3RX9 010-0AA00	1	1 unit	7.148
	Yellow (AS-Interface)	1-km drum	B	3RX9 012-0AA00	1	1 unit	80.000
	Black (24 V DC)	100-m roll	▶	3RX9 020-0AA00	1	1 unit	7.092
	Black (24 V DC)	1-km drum	B	3RX9 022-0AA00	1	1 unit	80.000
TPE	Yellow (AS-Interface)	100-m roll	▶	3RX9 013-0AA00	1	1 unit	6.627
	Yellow (AS-Interface)	1-km drum	B	3RX9 014-0AA00	1	1 unit	78.000
	Black (24 V DC)	100-m roll	▶	3RX9 023-0AA00	1	1 unit	6.459
	Black (24 V DC)	1-km drum	B	3RX9 024-0AA00	1	1 unit	69.666
TPE special version acc. to UL Class 2	Yellow (AS-Interface)	100-m roll	C	3RX9 017-0AA00	1	1 unit	6.900
	Black (24 V DC)	100-m roll	C	3RX9 027-0AA00	1	1 unit	6.984
PUR ¹⁾	Yellow (AS-Interface)	100-m roll	▶	3RX9 015-0AA00	1	1 unit	6.131
	Yellow (AS-Interface)	1-km drum	B	3RX9 016-0AA00	1	1 unit	69.100
	Black (24 V DC)	100-m roll	▶	3RX9 025-0AA00	1	1 unit	6.323
	Black (24 V DC)	1-km drum	B	3RX9 026-0AA00	1	1 unit	200.000

¹⁾ Note on towability of the AS-Interface cable with PUR outer sheath: To determine its towability, the AS-Interface cable was tested in "IGUS tow chains" Type 10.2.048 and 20.2.55. For the test, the tow chain was fitted with 3 x AS-Interface cables and diverse round cables. After three million bendings (stroke), no damage to the cores, strands or outer sheath were discovered (tow chain equipped to 50 %).