

AS-Interface

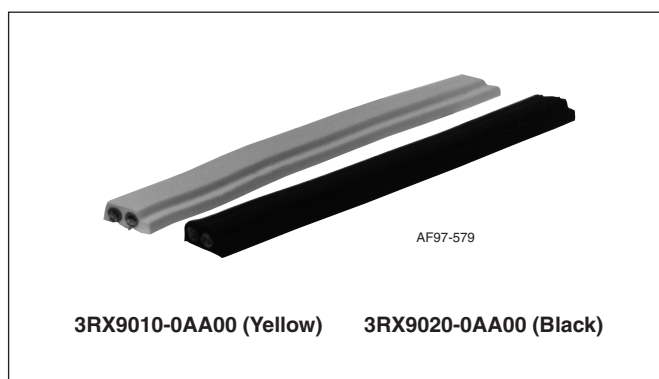
AS-Interface cables

AS-Interface cables, 3RX90

■ Description

The AS-i cable is a two-core cable specially designed to connect AS-i devices. The yellow AS-i cable supplies 30V DC power to sensors and transfers data. The black AS-i cable can be used for 24V DC actuators (e.g., solenoid valves).

- A trapezoidal cross section is adopted to prevent polarity reversal.
- Two kinds of cable are available to suit environmental conditions: general-purpose and oil-tight use.
- The mechanically coded flat cable employs insulation piercing connectors. Cutting and stripping of cores is not necessary. The cable's insulation recovers after the connected slaves are detached.



■ Ratings and specifications

Type	3RX9010-0AA00	3RX9013-0AA00	3RX9020-0AA00	3RX9023-0AA00
Application	AS-i communications, 30V DC power supply		24V DC external power supply	
Environmental condition	General-purpose use	Oil-tight use	General-purpose use	Oil-tight use
Cable color	Yellow		Black	
Cable sheath material (DIN VDE 0207)	Ethylene Propylene Diene Monomer (EPDM)	Thermoplastic Elastomers (TPE)	Ethylene Propylene Diene Monomer (EPDM)	Thermoplastic Elastomers (TPE)
Sheath color of core	Brown (AS-i (+)), Blue (AS-i (-))		Brown (24V DC (+)), Blue (0V)	
Core cross-section (DIN VDE 0295)	2 x 1.5mm ²		2 x 1.5mm ²	
Cable length per packing	100m roll		100m roll	
Operating temperature	-25 to +85°C	-30 to +105°C	-25 to +85°C	-30 to +105°C
Storage temperature	-40 to +85°C	-40 to +105°C	-40 to +85°C	-40 to +105°C
Smallest permissible bending radius (DIN VDE 0298 Part 300)	Fixed installed: 12mm Freely movable: 24mm		Fixed installed: 12mm Freely movable: 24mm	
Bending performance (DIN VDE 0472 Part 603)	No break after 30,000 back and forward movements		No break after 30,000 back and forward movements	
Behavior in fire (DIN VDE 0472 Part 804 test B)	Flammable	Flame-resistant	Flammable	Flame-resistant
Halogen free	Yes	Halogen material contained	Yes	Halogen material contained
Ozone and weather resistance	Non-resisting	Resisting	Non-resisting	Resisting
Oil resistance	Non-resisting	Resisting	Non-resisting	Resisting
Water soluble cutting fluid resistance	Resisting	Non-resisting	Resisting	Non-resisting
Approval	—	UL, CSA	—	UL, CSA

■ Dimensions, mm

