

AS-Interface cables, FX3C

■ 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.
- Both kinds of cable are available to suit environmental conditions: general-purpose (EPDM) and oil-tight (TPE) use.
- The connection uses the insulation piercing technology (IEC 60352-6).
- The cable's insulation recovers after the connected slaves are detached.
- Conforms to IEC 62026-2
- Approved by UL and CSA (Oil-tight (TPE) cable).
- RoHS compliant products.



■ Ratings and specifications

Type	FX3CAEY	FX3CATY	FX3CAEB	FX3CATB
Application	AS-i communications, 30V DC		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 (IEC 60228)	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
Smallest permissible bending radius (DIN VDE 0298 Part 300)	Fixed installed: 12mm Freely movable: 24mm		Fixed installed: 12mm Freely movable: 24mm	
Bending performance (IEC 60227)	No break after 30,000 back and forward movements		No break after 30,000 back and forward movements	
Behavior in fire (UL 1581)	Flammable	Flame-resistant	Flammable	Flame-resistant
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	—	UL758, cUL, AWM style 2376	—	UL758, cUL, AWM style 2376

■ Dimensions, mm

