



## TITLE:

SY Control Flex

## CODE:

SFX/SY-5C-2.5-PVC-CLR-NBR-U-500

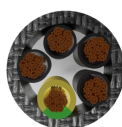
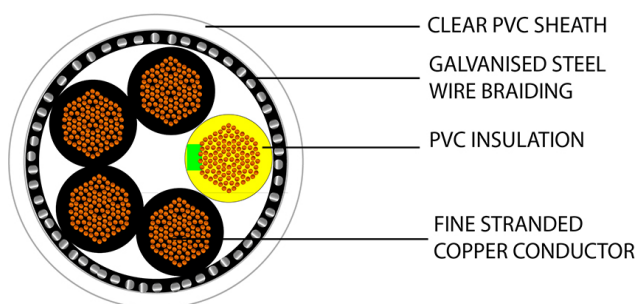
## DESCRIPTION:

500m SY Control Flex 5 Core 2.5mm  
Clear PVC Numbered Cores

## SUPPLIED AS:

Reel of 500m

- Flexible instrumentation cable for measuring control or regulation in the field of process automation
- Suited to medium to high mechanical stress installations
- Polyvinyl chloride plastic has excellent aging properties and will usually exceed a 25-30 year service life
- Highly flexible multi core cable
- Improved performance and protection against fire
- For use with fixed and mobile equipment





## Product Specification

### Cable Construction

Cable Construction	5 Cores
CPR	Eca
Conductor	IEC 60228/ DIN EN 60228/ EN 60228 Class 5 Stranded Electrolytic Plain Copper
Overall Diameter (mm)	11.80

### Insulation

Insulation	EN 50363-3 PVC Compound
Insulation Colour	Black numbered cores plus Earth
Insulation Thickness (mm)	0.50mm

### Outer/Jacket Specification

Outer Jacket	EN 50363-4-1 PVC Compound
Outer Jacket Colour	Clear
Inner Jacket	EN 50363-4-1 PVC Compound
Overall Colour	Clear
Overall Diameter (mm)	11.80
Jacket Colour	Clear

### Electrical Characteristics

Max Conductor DC resistance @ 20°C	7.98Ω/km
Rated Temperature (°C)	-40°C ~+70°C (Fixed Laying) -5°C ~+70°C (Flexible)
Rated Voltage (V)	300/500V





## MORE INFORMATION:

EURO CLASS (ca: cable)	CLASSIFICATION CRITERIA		CPR GUIDE	
	FIRE RATING	SFX COMMENT		Securi-Flex®
Reaction to Fire BS EN ISO 1716			SUBCLASSIFICATIONS FOR EUROCLASSES B <sub>ca</sub> to D <sub>ca</sub>	
<b>A<sub>ca</sub></b>	Does not contribute to the fire	Due to availability, it will be almost impossible for a cable to meet A <sub>ca</sub> , so they should only be specified with extreme caution.	<b>(S) SMOKE PRODUCTION</b>	<b>(D) FLAMING DROPLETS</b>
Reaction to Fire BS EN 50399			BS EN 50399/BS EN 61034-2	BS EN 50399
<b>B1<sub>ca</sub></b>	Minimum contribution to the fire	It's highly unlikely the commonly-used cables will be classified to Class B1 <sub>ca</sub> .	s1a: s1 + transmittance >=80% (BS EN 61034-2)	d0: No fall of droplets or flaming particles, times for 1200 seconds
<b>B2<sub>ca</sub></b>	Combustible, low flame spread & heat release contribution to the fire	Similar to Class C <sub>ca</sub> , although a lower acceptable heat release rate and burn measurement. In practice, this is likely to be the highest class cables will meet.	s1b: s1 + transmittance >=60% <80% (BS EN 61034-2)	d1: Fall of droplets or flaming particles that persist for less than 10 seconds, timed for 1200 seconds
<b>C<sub>ca</sub></b>	Combustible, moderate flame spread & heat release	This is a more rigorous test than Class D <sub>ca</sub> , this is widely accepted across Europe as the 'go to' classification, but be aware, many cables do not meet Class C <sub>ca</sub> though availability is improving.	s1: Low production of slow propagation of smoke	a1: Very low acidity (conductivity <2.5 μS/mm & pH >4.3)
<b>D<sub>ca</sub></b>	Combustible, moderate flame spread & heat release	This classification has relatively little use or acceptance within specifying/contracting organisations. This is because no large scale fire growth is measured.	s2: Intermediate production & propagation of smoke	a2: low acidity (conductivity <10 μS/mm & pH >4.3)
Reaction to Fire BS EN 60332-1-2			s3: None of the above	d2: None of the above
<b>E<sub>ca</sub></b>	Combustible, limited fire spread of less than 425mm	A basic test for vertical flame propagation for a single insulated wire or cable using a 1 KW pre-mixed flame. Note: This test does not measure heat release, toxic fumes or smoke.	Visit us online: <a href="http://www.securiflex.co.uk">www.securiflex.co.uk</a>	
<b>F<sub>ca</sub></b>	Combustible, fire spread of more than 425mm	Cables classified to Class F <sub>ca</sub> may have high levels of flammability due to the materials they are made of. This does not mean that the cable cannot be used, it is more likely to be used external.	The Trusted Cable Brand	
			Classes A to E have to be tested by an independent authorised laboratory. Most cables will fall into classes B2 <sub>ca</sub> to E <sub>ca</sub> . For a cable to meet A <sub>ca</sub> , B1 <sub>ca</sub> , B2 <sub>ca</sub> or C <sub>ca</sub> , there also needs to be regular on-going factory audits.	

## OUR OPERATING TEMPERATURE RANGE GUIDE



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enquiries@securiflex.co.uk | www.securiflex.co.uk | 03333 44 66 23