TITLE:
SY Control Flex

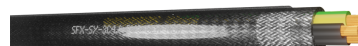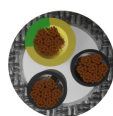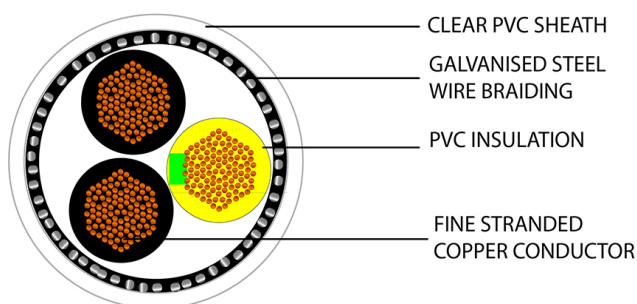**CODE:**
SFX/SY-3C-4.0-PVC-CLR-NBR-U-500

DESCRIPTION:
500m SY Control Flex 3 Core 4.0mm 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

CLEAR PVC SHEATH

GALVANISED STEEL WIRE BRAIDING

PVC INSULATION

FINE STRANDED COPPER CONDUCTOR

FLAME-FLEX® Drum-Roll LUCKINS® epim ELECTRICAL DISTRIBUTORS' ASSOCIATION BASEC KNX cai CPR UKCA

Product Specification

Cable Construction

Cable Construction	3 Cores
CPR	Eca
Conductor	IEC 60228/ DIN EN 60228/ EN 60228 Class 5 Stranded Electrolytic Plain Copper

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
Jacket Colour	Clear

Electrical Characteristics

Max Conductor DC resistance @ 20°C	4.95O/km
Rated Temperature (°C)	-40°C ~+70°C (Fixed Laying) -5°C ~+70°C (Flexible)
Rated Voltage (V)	300/500V

Control flex

Securi-Flex®

MORE INFORMATION:

EURO CLASS (ca:cable)	CLASSIFICATION CRITERIA	
	FIRE RATING 🔥	SFX COMMENT
Reaction to Fire BS EN ISO 1716		
Aca	Does not contribute to the fire	Due to availability, it will be almost impossible for a cable to meet Aca, so they should only be specified with extreme caution.
Reaction to Fire BS EN 50399		
B1ca	Minimum contribution to the fire	It's highly unlikely the commonly-used cables will be classified to Class B1ca.
B2ca	Combustible, low flame spread & heat release contribution to the fire	Similar to Class Cca, although a lower acceptable heat release rate and burn measurement. In practice, this is likely to be the highest class cables will meet.
Cca	Combustible, moderate flame spread & heat release	This is a more rigorous test than Class Dca, this is widely accepted across Europe as the 'go to' classification, but be aware, many cables do not meet Class Cca though availability is improving.
Dca	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.
Reaction to Fire BS EN 60332-1-2		
Eca	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.
Fca	Combustible, fire spread of more than 425mm	Cables classified to Class Fca 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.

CPR GUIDE
Securi-Flex®

SUBCLASSIFICATIONS FOR EUROCLASSES Bca to Dca

(S) SMOKE PRODUCTION ☁	(D) FLAMING DROPLETS 💧	(A) SMOKE ACIDITY 😷
BS EN 50399/BS EN 61034-2	BS EN 50399	BS EN 60754-2
s1a: s1 + transmittance >=80% (BS EN 61034-2)	d0: No fall of droplets or flaming particles, times for 1200 seconds	a1: Very low acidity (conductivity <2.5 µS/mm & pH >4.3)
s1b: s1 + transmittance >=60% <80% (BS EN 61034-2)		
s1: Low production of slow propagation of smoke	d1: Fall of droplets or flaming particles that persist for less than 10 seconds, timed for 1200 seconds	a2: low acidity (conductivity <10 µS/mm & pH >4.3)
s2: Intermediate production & propagation of smoke		
s3: None of the above	d2: None of the above	d2: None of the above

Visit us online:
www.securiflex.co.uk

SFX®

The Trusted Cable Brand

Classes A to E have to be tested by an independent authorised laboratory.
Most cables will fall into classes B2ca to Eca.
For a cable to meet Aca, B1ca, B2ca or Cca, there also needs to be regular on-going factory audits.

OUR OPERATING TEMPERATURE RANGE GUIDE

200°	SILICONE
90°	HRPVC
80°	PE & PVC
70°	LSZH
0°	
-20°	PE,PVC & HRPVC
-40°	LSZH
-60°	SILICONE

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