



TITLE:

Low Loss Coax Direct Burial

CODE:

SFX/100-DB-GRN-1

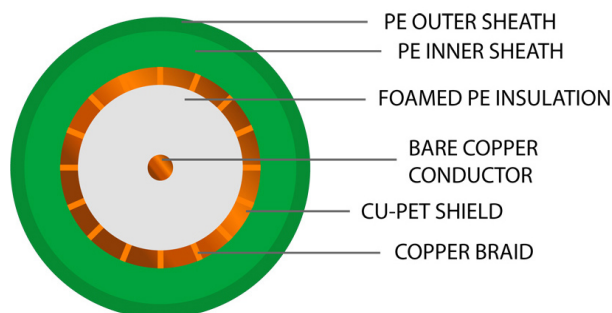
DESCRIPTION:

1m (per metre) SFX100 Coaxial Premium
Direct Burial Green HDPE

SUPPLIED AS:

Per 1m Lengths

- High frequency, low loss cable, designed to carry CCTV, TV and Satellite Signals
- Manufactured with gas injected foam granting the cable a much better mechanical, electrical and ageing performance compared to a solid PE dielectric
- High density polyethylene is the most environmentally stable plastic
- This family of cable contains both a foil and braided screen, enhancing performance and reducing interference
- An outdoor rated cable designed to be buried under ground without a need for conduit or ducting
- Minimal signal degradation





Product Specification

Cable Construction

Cable Construction	Screened core x 1
CPR	Fca
Conductor	Annealed Copper
Conductor Diameter (mm)	1.00 $\pm$ 0.01
Inner Conductor	Annealed Copper
Overall Diameter (mm)	8.20 $\pm$ 0.20
Compliance and Standards	CE2014/30/EU, RoHS2 2011/65/EU, LVD 2014/35/EU

Insulation

Insulation	Foamed PE
Insulation Colour	White
Insulation Thickness (mm)	1.79 $\pm$ 0.01

Outer/Jacket Specification

Outer Jacket	PE
Outer Jacket Colour	Green RAL 6016
Inner Jacket	PE
Inner Jacket Colour	Green RAL 6016
Inner Jacket Diameter (mm)	6.60 $\pm$ 0.20
Jacket	HDPE
Overall Colour	Green
Overall Diameter (mm)	8.20 $\pm$ 0.20
Jacket Colour	Green RAL 6016
Jacket Thickness (mm)	0.6

Electrical Characteristics

Max Conductor DC resistance @ 20°C	<23 Ω /km
Outer Conductor DC resistance @ 20°C	<52 Ω /km
Rated Temperature (°C)	-20°C to 80°C
Impedance	75 Ω $\pm$ 3 Ω
Capacitance	>53 nF/km





MORE INFORMATION:

EURO CLASS (ca:cable)		CLASSIFICATION CRITERIA		CPR GUIDE		Securi-Flex®	
FIRE RATING				SFX COMMENT			
Reaction to Fire BS EN ISO 1716						SUBCLASSIFICATIONS FOR EUROCLASSES B _{ca} to D _{ca}	
A _{ca}	Does not contribute to the fire	Due to availability, it will be almost impossible for a cable to meet A _{ca} , so they should only be specified with extreme caution.		(S) SMOKE PRODUCTION	(D) FLAMING DROPLETS	(A) SMOKE ACIDITY	
Reaction to Fire BS EN 50399				BS EN 50399/BS EN 61034-2	BS EN 50399	BS EN 60754-2	
B1 _{ca}	Minimum contribution to the fire	It's highly unlikely the commonly-used cables will be classified to Class B1 _{ca} .		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)	
B2 _{ca}	Combustible, low flame spread & heat release contribution to the fire	Similar to Class C _{ca} , 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	a2: low acidity (conductivity <10 μS/mm & pH >4.3)	
C _{ca}	Combustible, moderate flame spread & heat release	This is a more rigorous test than Class D _{ca} , this is widely accepted across Europe as the 'go to' classification, but be aware, many cables do not meet Class C _{ca} though availability is improving.		s1: Low production of slow propagation of smoke			
D _{ca}	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	d2: None of the above	d2: None of the above	
Reaction to Fire BS EN 60332-1-2						Visit us online: www.securiflex.co.uk	
E _{ca}	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.		www.securiflex.co.uk		The Trusted Cable Brand	
F _{ca}	Combustible, fire spread of more than 425mm	Cables classified to Class F _{ca} 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.		Classes A to E have to be tested by an independent authorised laboratory. Most cables will fall into classes B2 _{ca} to E _{ca} . For a cable to meet A _{ca} , B1 _{ca} , B2 _{ca} or C _{ca} , there also needs to be regular on-going factory audits.			

OUR OPERATING TEMPERATURE RANGE GUIDE



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