

- ✕ Category 7<sub>A</sub> Performance to 1000 MHz
- ✕ 23 AWG Conductors
- ✕ Individual foil pairs with overall braid screen
- ✕ 3rd Party Delta Verified Component Compliance
- ✕ 25 Year System Warranty

**Features**

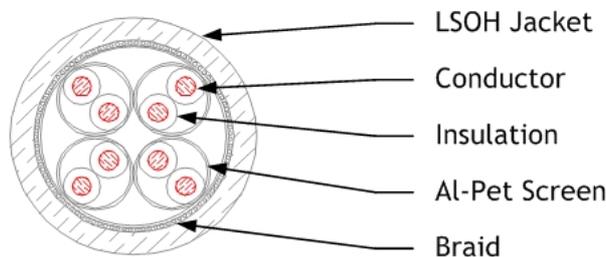
- Low Smoke Zero Halogen Jacket
- High performance design
- Individual foil pairs with overall braid screen
- 25 Year System Warranty
- Category 7<sub>A</sub> Performance to 1000 MHz
- 23 AWG Conductors
- 3rd Party Delta Verified Component Compliance
- No.2 cabling system by market share, as reported by BSRIA

**Product Overview**

The Excel Category 7<sub>A</sub> Screened S/FTP LSOH Cable is designed and manufactured to meet and exceed the ISO, CENELEC and TIA standards. This delivers Class F<sub>A</sub> link and channel performance supporting all applications detailed and proposed within the standards. This superior performance cable is ETL Component Verified.

Each cable consists of 4 pairs individually wrapped in a covering of high quality, strong, aluminium/polyester foil tape providing an individual screen for each pair. These sub units are then cabled together, with the pairs set to different lay lengths to ensure optimum performance, an overall braid screen is applied to provide further immunity to outside noise and to mitigate any risk of alien cross talk.

Excel Category 7<sub>A</sub> cables are jacketed in a yellow low smoke zero halogen (LSOH) flame retardant compound. Supplied on 500 metre plywood drums, each cable has a print legend identifying the specification, part code and sequential.



**Impedance**

Frequency	Impedance
1-250 MHz	100 ± 15 Ω
250-500 MHz	100 ± 20 Ω
500-1000 MHz	100 ± 25 Ω

## Performance

Frequency (MHz)	Longitudinal Attenuation (dB/100m)	NEXT (dB/100m)	ACR-F (dB/100m)	PSNEXT (dB/100m)	PSExNEXT (dB/100m)	PSExACR-F (dB/100m)	Return Loss (dB/100m)
	Max.	Min.	Min.	Min.	Min.	Min.	Min.
1	2.1	78	78	75	67	67	
4	3.7	78	78	75	67	67	23
10	5.8	78	78	75	67	67	25
62.5	14.6	78	69.4	75	67	57.3	21.5
100	18.5	75.4	65.3	72.4	67	53.2	20.1
155	23.2	72.5	61.5	69.5	67	49.4	18.8
200	26.5	70.9	59.3	67.9	67	47.2	18
300	32.7	68.2	55.8	65.2	67	43.7	17.3
400	38	66.4	53.3	63.4	67	41.2	17.3
600	47.1	63.7	49.7	60.7	65.8	37.6	17.3
800	54.9	61.9	47.2	58.9	64	35.1	16.1
1000	61.9	60.4	45.3	57.4	62.5	33.2	15.1

## Construction

Item	Value
Conductor material	Solid bare copper
Conductor diameter	0.58 ± 0.01 mm (23 AWG)
Insulation	Foam Skin HDPE material
Insulation thickness	0.37 mm
Insulation diameter	1.38 ± 0.05 mm
Pair foil	Aluminium - Pet ≥ 115 %
Braid material	Tinned copper
Braid construction	T0.10 ± 0.008 mm x 8 x 6
Braid coverage	40 %
Jacket material	Low Smoke Zero Halogen (LSOH)
Jacket thickness	0.6 mm
Jacket colour	Yellow (RAL 1021)
Cable diameter	7.8 ± 0.3 mm
Maximum conductor DC resistance at 20 °C	72.8 Ω/km
Nominal velocity of propagation (nvp)	70%
Operating Temperature Range	-25°C to +70°C
Flamability resistance	IEC 60332-1
Halogen acidity	IEC 60754-1,2
Smoke performance	IEC 61034-1,2

## Part Number Information

Part No.	Description
100-910	Category 7A Screened S/FTP Cable - 1000 MHz, Yellow

## System Warranty

The Excel System Warranty provides a 25-year product and applications assurance of compliance with the industry performance standard appropriate to the class of cabling installed. The warranty may be applied for by an accredited Excel Partner who has designed, supplied and installed the said system.



Excel is a world-class premium performing end-to-end infrastructure solution - designed, manufactured, supported and delivered - without compromise.

Contact us at [sales@excel-networking.com](mailto:sales@excel-networking.com)

