

✕ Category 7A Performance enhanced to 1200 MHz

✕ 22 AWG Conductors

✕ Individual foil pairs with overall braid screen

✕ 3rd Party Delta Verified Component Compliance

✕ 25 Year System Warranty

Features

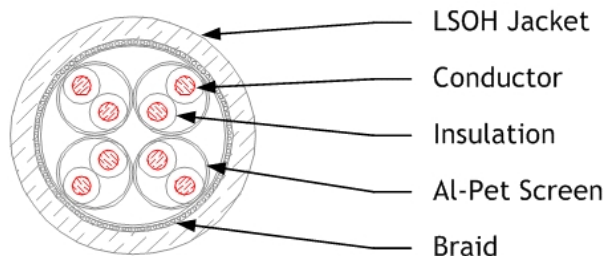
- Low Smoke Zero Halogen Jacket
- High performance design
- Individual foil pairs with overall braid screen
- 25 Year System Warranty
- Category 7A Performance enhanced to 1200 MHz
- 22 AWG Conductors
- 3rd Party Delta Verified Component Compliance
- No.2 cabling system by market share, as reported by BSRIA

Product Overview

The Excel Category 7A Plus Screened S/FTP LSOH Cable is designed and manufactured to meet and exceed the ISO, CENELEC and TIA standards. This delivers Class F_A link and channel performance supporting all applications detailed and proposed within the standards. The performance characteristics have been enhanced to 1200 MHz for specialist applications. This superior performance cable is ETL Component Verified by Delta (performance verification to 1000 MHz).

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 7A 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
1-100 MHz	100 ± 15 Ω
100-250 MHz	100 ± 22 Ω
250-1200 MHz	100 ± 25 Ω

Construction

Item	Value
Conductor material	Solid bare copper
Conductor diameter	0.64 ± 0.008 mm (22 AWG)
Insulation	Foam Skin HDPE material
Insulation thickness	0.4 mm
Insulation diameter	1.45 ± 0.1 mm
Pair foil	Aluminium - Pet ≥ 115 %
Braid material	Tinned copper
Braid construction	T0.12 ± 0.008 mm x 8 x 6
Braid coverage	40 %
Jacket material	Low Smoke Zero Halogen (LSOH)
Jacket thickness	0.8 mm
Jacket colour	Yellow (RAL 1021)
Cable diameter	8.5 ± 0.3 mm
Maximum conductor DC resistance at 20 °C	< 57.9 Ω/km
Nominal velocity of propagation (nvp)	79%
Rated temperature	60° C
Flamability resistance	IEC 60332-1
Halogen acidity	IEC 60754-1,2
Smoke performance	IEC 61034-1,2

Performance

Frequency (MHz)	Longitudinal Attenuation (dB/100m) Max.	NEXT (dB/100m) Min.	ACR-F (dB/100m) Min.	PSNEXT (dB/100m) Min.	PSExNEXT (dB/100m) Min.	PSExACR-F (dB/100m) Min.	Return Loss (dB/100m) 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
1200	68.4	59.2	43.7	56.2	61.3	31.6	14.3

Part Number Information

Part No.	Description
100-912	Category 7A 'Plus' Screened S/FTP Cable - 1200 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

