

FEATURES

- 4 Pair multi construction
- Bare copper conductor
- Cat6a performs at better lengths than a cat6
- Skin foam skin insulation
- Both 100 m and 500 m shielded cables available

RS PRO Shielded Cat6a Cable 500m, LSZH

RS Stock No.: 842-7349



RS Professionally Approved Products bring to you professional quality parts across all product categories. Our product range has been tested by engineers and provides a comparable quality to the leading brands without paying a premium price.



Product Description

Brought to you by RS Pro, A well built and durable Cat6a cable suitable for home, office and industrial networks requiring a reliable internet connection. These cables are LSZH (Low Smoke Zero Halogen) ensuring health and safety standards are met in the even of it being near a high heat source.

General Specifications

Terminated/Unterminated	Unterminated	
Shield Type	F/FTP	
Conductor Material	Bare Copper	
Insulator Material	S kin-Foam-Skin	
Drain Wire	Yes	
Fire Behaviour	Low Smoke Zero Halogen (LSZH)	

Electrical Specifications

Attenuation	45.30dB	
Frequency	500MHz	
Conductor Resistance	Max. 85.6ohm/km at 20°C	

Mechanical Specifications

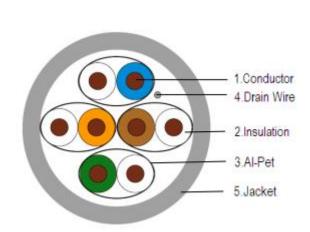
Length	500m
Outer Diameter	7.3mm
Insulator Diameter	1.32±0.15×2C Twist
Core Strands	



Approvals

Compliance/Certifications	2011/65/EU and 2015/863
Standards	ISO/IEC 11801:2011, IEC61156-5:2009,EN50173, EN50288, ANSI/TIA 568-C.2.2009, IEC60332-1, IEC61034, IEC60754







$\begin{array}{lll} \text{Rated Temperature($^{\circ}$C)} & 60 \\ \text{Velocity ratio} & 70\% \\ \text{Impedance(Ω)} & 1\text{-}100\text{MHz} & 100\pm15 \\ & 100\text{-}250\text{MHz} & 100\pm20 \\ \end{array}$		Electrical	Charac	teristics				
(MHz) (dB/100m) (dB) (dB) (dB) 1.00 2.10 75.30 72.30 20.00 4.00 3.80 66.30 63.30 23.00 10.00 5.90 60.30 57.30 25.00 16.00 7.50 57.20 54.20 25.00 31.25 10.50 52.90 49.90 23.60 62.50 15.00 48.40 45.40 21.50 100.00 19.10 45.30 42.30 20.10 250.00 31.10 39.30 36.30 17.30 500.00 31.10 39.30 36.30 17.30 500.00 45.30 34.80 31.80 17.30 Frequency ELFEXT PEELFEXT (MHz) (dB) (dB) (dB) (dB) 1.00 68.00 65.00 45.00 45.00 16.00 43.90 40.90 31.25 38.10 35.10 62.50 32.10 29.10 100.00 25.00	Performance							
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4.00 3.80 66.30 63.30 23.00 10.00 5.90 60.30 57.30 25.00 16.00 7.50 57.20 54.20 25.00 31.25 10.50 52.90 49.90 23.60 62.50 15.00 48.40 45.40 21.50 100.00 19.10 45.30 42.30 20.10 250.00 31.10 39.30 36.30 17.30 500.00 45.30 34.80 31.80 17.30 Frequency ELFEXT PEELFEXT (MHz) (dB) (dB) 1.00 68.00 65.00 4.00 56.00 53.00 10.00 48.00 45.00 16.00 43.90 40.90 31.25 38.10 35.10 62.50 32.10 29.10 100.00 28.00 25.00 250.00 20.00 17.00 500.00 14.00 11.00 Max.Conductor DC Resistance at 20°C (Ω/Km) <85.6 Rated Temperature(°C) Velocity ratio Impedance(Ω) 1-100MHz 100±25 Fire Performance: IEC60332-1 Smoke Density: IEC61034	(MHz)	(dB/100m)	(dB)	(dB)	(dB)			
10.00 5.90 60.30 57.30 25.00 16.00 7.50 57.20 54.20 25.00 31.25 10.50 52.90 49.90 23.60 62.50 15.00 48.40 45.40 21.50 100.00 19.10 45.30 42.30 20.10 250.00 31.10 39.30 36.30 17.30 500.00 45.30 34.80 31.80 17.30 Frequency ELFEXT PEELFEXT (MHz) (dB) (dB) 1.00 68.00 65.00 4.00 56.00 53.00 10.00 48.00 45.00 16.00 43.90 40.90 31.25 38.10 35.10 62.50 32.10 29.10 100.00 28.00 25.00 250.00 20.00 17.00 500.00 14.00 11.00 Max.Conductor DC Resistance at 20°C (Ω/Km) < 85.6 Rated Temperature(°C) Velocity ratio Impedance(Ω) 1-100MHz 100±25 Fire Performance: IEC60332-1 Smoke Density: IEC61034	1.00	2.10	75.30	72.30	20.00			
16.00 7.50 57.20 54.20 25.00 31.25 10.50 52.90 49.90 23.60 62.50 15.00 48.40 45.40 21.50 100.00 19.10 45.30 42.30 20.10 250.00 31.10 39.30 36.30 17.30 500.00 45.30 34.80 31.80 17.30 Frequency ELFEXT PEELFEXT (MHz) (dB) (dB) 1.00 68.00 65.00 4.00 56.00 53.00 10.00 48.00 45.00 16.00 43.90 40.90 31.25 38.10 35.10 62.50 32.10 29.10 100.00 28.00 25.00 250.00 20.00 17.00 500.00 14.00 11.00 Max.Conductor DC Resistance at 20°C (Ω/Km) < 85.6 Rated Temperature(°C) Velocity ratio Impedance(Ω) 1-100MHz 100±25 Fire Performance: IEC60332-1 Smoke Density: IEC61034	4.00	3.80	66.30	63.30	23.00			
31.25 10.50 52.90 49.90 23.60 62.50 15.00 48.40 45.40 21.50 100.00 19.10 45.30 42.30 20.10 250.00 31.10 39.30 36.30 17.30 500.00 45.30 34.80 31.80 17.30 Frequency ELFEXT PEELFEXT (MHz) (dB) (dB) 1.00 68.00 65.00 4.00 56.00 53.00 10.00 48.00 45.00 16.00 43.90 40.90 31.25 38.10 35.10 62.50 32.10 29.10 100.00 28.00 25.00 250.00 20.00 17.00 500.00 14.00 11.00 Max.Conductor DC Resistance at 20°C (Ω/Km) < 85.6 Rated Temperature(°C) Velocity ratio Impedance(Ω) 1-100MHz 100±25 Fire Performance: IEC60332-1 Smoke Density: IEC61034	10.00	5.90	60.30	57.30	25.00			
62.50 15.00 48.40 45.40 21.50 100.00 19.10 45.30 42.30 20.10 250.00 31.10 39.30 36.30 17.30 500.00 45.30 34.80 31.80 17.30 Frequency ELFEXT PEELFEXT (MHz) (dB) (dB) 1.00 68.00 65.00 4.00 56.00 53.00 10.00 48.00 45.00 16.00 43.90 40.90 31.25 38.10 35.10 62.50 32.10 29.10 100.00 28.00 25.00 250.00 20.00 17.00 500.00 14.00 11.00 Max.Conductor DC Resistance at 20°C (Ω/Km) <85.6 Rated Temperature(°C) Velocity ratio Impedance(Ω) 1-100MHz 100±25 Fire Performance: IEC60332-1 Smoke Density: IEC61034	16.00	7.50	57.20	54.20	25.00			
100.00 19.10 45.30 42.30 20.10 250.00 31.10 39.30 36.30 17.30 500.00 45.30 34.80 31.80 17.30 Frequency ELFEXT PEELFEXT (MHz) (dB) (dB) 1.00 68.00 65.00 4.00 56.00 53.00 10.00 48.00 45.00 16.00 43.90 40.90 31.25 38.10 35.10 62.50 32.10 29.10 100.00 28.00 25.00 250.00 20.00 17.00 500.00 14.00 11.00 Max.Conductor DC Resistance at 20°C (Ω/Km) < 85.6 Rated Temperature(°C) (Max.Conductor DC Resistance at 20°C (Ω/Km) (Assert Conductor DC Resistance a	31.25	10.50	52.90	49.90	23.60			
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500.00 45.30 34.80 31.80 17.30 Frequency ELFEXT PEELFEXT (MHz) (dB) (dB) 1.00 68.00 65.00 4.00 56.00 53.00 10.00 48.00 45.00 16.00 43.90 40.90 31.25 38.10 35.10 62.50 32.10 29.10 100.00 28.00 25.00 250.00 20.00 17.00 500.00 14.00 11.00 Max.Conductor DC Resistance at 20°C (Ω/Km) < 85.6 Rated Temperature(°C) Velocity ratio Impedance(Ω) 1-100MHz 100±25 Fire Performance: IEC60332-1 Smoke Density: IEC61034								
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(MHz) (dB) (dB) 1.00 68.00 65.00 4.00 56.00 53.00 10.00 48.00 45.00 16.00 43.90 40.90 31.25 38.10 35.10 62.50 32.10 29.10 100.00 28.00 25.00 250.00 20.00 17.00 500.00 14.00 11.00 Max.Conductor DC Resistance at 20°C (Ω/Km) <85.6 Rated Temperature(°C) Velocity ratio Impedance(Ω) 1-100MHz 100±15 100-250MHz 100±25 Fire Performance: IEC60332-1 Smoke Density: IEC61034	500.00				17.30			
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31.25 38.10 35.10 62.50 32.10 29.10 100.00 28.00 25.00 250.00 20.00 17.00 500.00 14.00 11.00 Max.Conductor DC Resistance at 20°C (Ω/Km) <85.6 Rated Temperature(°C) 60 Velocity ratio 70% Impedance(Ω) 1-100MHz 100±15 100-250MHz 100±20 250-500MHz 100±25 Fire Performance: IEC60332-1 Smoke Density: IEC61034	10.00	48.00						
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250.00 20.00 17.00 500.00 14.00 11.00 Max.Conductor DC Resistance at 20°C (Ω/Km) <85.6 Rated Temperature(°C) 60 Velocity ratio 70% Impedance(Ω) 1-100MHz 100±15 100-250MHz 100±20 250-500MHz 100±25 Fire Performance: IEC60332-1 Smoke Density: IEC61034	62.50	32.10	29.10					
500.00 14.00 11.00 Max.Conductor DC Resistance at 20°C (Ω/Km) <85.6 Rated Temperature(°C) 60 Velocity ratio 70% Impedance(Ω) 1-100MHz 100±15 100-250MHz 100±20 250-500MHz 100±25 Fire Performance: IEC60332-1 Smoke Density: IEC61034	100.00	28.00	25.00					
Max.Conductor DC Resistance at 20 °C (Ω/km) <85.6	250.00	20.00	17.00					
$\begin{array}{llllllllllllllllllllllllllllllllllll$	500.00	14.00	11.00					
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Max.Conductor	<85.6						
Impedance(Ω) 1-100MHz 100±15 100-250MHz 100±20 250-500MHz 100±25 Fire Performance: IEC60332-1 Smoke Density: IEC61034	Rated Tempera	ature(°C)						
100-250MHz 100±20 250-500MHz 100±25 Fire Performance: IEC60332-1 Smoke Density: IEC61034	Velocity ratio				70%			
250-500MHz 100±25 Fire Performance: IEC60332-1 Smoke Density: IEC61034	Impedance(Ω)			1-100MHz	100±15			
Fire Performance: IEC60332-1 Smoke Density: IEC61034				100-250MHz	100±20			
Smoke Density: IEC61034				250-500MHz	100±25			
	Fire Performan	ce: IEC60332-	-1					
	Smoke Density: IEC61034							