

LAN Cable

Part No: UFTPL6AHF

Communication / LAN / CAT6A - Cable

Description	Solid 23AWG PACW, PE Insulated, 4 individually screened pairs with a shared 26 AWG tinned copper drain wire, LSZH Sheath, Category 6A U/FTP cable for indoor applications.
Applicable Standards	ANSI/TIA 568-D.2, ISO/IEC 11801-2, AS/NZS 11801.1, AS/CA S-008, AS 1049
Suitable Applications	Used for horizontal and fixed wiring in Structured cabling and computer networks operating up to 10 Gbit on Class EA links. Suitable for 10BaseT, 100BaseT, 1000BaseT and 10GBaseT Ethernet applications. Not suitable for mains connection.

Images

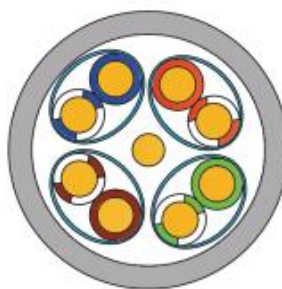


Image for illustration purposes only.



Features

- Indoor Cable
- Flame Retardant
- Screened
- LSZH

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Construction

Conductor	Material	PACW		
	Size	23 AWG		
	Stranding	1/0.56		
	Area (mm ²)	0.25		
	Diameter (mm)	0.56		
Insulation	Material	Foam PE		
	Nominal OD (mm)	1.3		
	Nominal Thickness (mm)	0.38		
	Colour	Pair	Wire 1	Wire 2
		1	Blue	White
		2	Orange	White + Orange Stripe
		3	Green	White + Green Stripe
		4	Brown	White + Brown Stripe
Twinning	Number of Pairs	4		
Screening	Type	Individual pair screening only		
	Material	Al/PET laminate tape. Al facing out.		
	Drain Wire	26 AWG (0.4mm) Tinned Copper		
Sheath	Material	LSZH		
	Colour	Refer to Supply Information Table		
	Average Wall Thickness (mm)	0.5		
	Nominal OD (mm)	7.4		

Electrical Properties

Max. Conductor DC Resistance @ 20°C	81 Ω/km
Max. DC Conductor resistance unbalanced	5 %
Nominal Velocity of Propagation	64%

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Electrical Properties

	Frequency Range	Impedance
Characteristic Impedance(1-250MHz)	1 MHz to 100 MHz	100 ± 15 Ω
	100 MHz to 250 MHz	100 ± 22 Ω
	250 MHz to 500 MHz	100 ± 25 Ω
Nom. Mutual Capacitance @ 1KHz	56 pF/m	
Max. Capacitance Unbalance @ 20°C	330 pF/100 m	

Flame/Fire Properties

Single Cable Flame Test	IEC 60332- 1
Light Transmittance	IEC 61034- 2 ≥ 60%
Acid Gas Generation	IEC 60754-1 & 2 HCL content ≤ 5mg/g (5%) pH ≥ 4.3 Conductivity ≤ 10 microS/mm
AS/NZS Classification	RHE 1

Mechanical Properties

Operating Temperature Range	-20 to +70°C (Operating/Storage) 0 to +50°C (Installation)
Max. Recommended Pulling Tension	110N
Min. Bend Radius (install)	50 mm
Approximate Mass	5.1 kg/100 m

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Transmission Properties

Freq (MHz)	4	8	10	16	20	31.25	62.5	100	200	300	500
NEXT (dB/100 m)	65.3	60.8	59.9	56.2	54.8	51.9	47.4	44.3	39.8	37.1	33.8
ELFEXT (dB/100 m)	55.8	49.7	47.8	43.7	41.8	37.9	31.9	27.8	21.8	18.3	13.8
Insertion Loss (dB/100 m)	3.8	5.3	5.9	7.5	8.4	10.5	15.0	20.1	27.6	37.3	45.3
Return Loss (dB/100 m)	23.0	24.5	25.0	25.0	25.0	23.6	21.5	20.1	18.0	16.8	15.2
PSNEXT (dB/100 m)	63.3	58.8	57.3	54.2	52.8	49.9	45.4	42.9	37.8	35.1	31.8
PSELFEXT (dB/100 m)	52.8	46.7	44.8	40.7	38.8	34.9	28.9	24.8	18.8	15.3	10.8
Delay (nsec/10 m)	552	545	543	542	540	539	538	537	536	536	536
Skew (nsec/10 m)	45										

Supply Information

Product No	Jacket Colour	Pack Type	Pack Size	Reel Size	Reels / Pallet
UFTPL6AHFBL305	Blue	Reel	305 m	38 x 30 cm	27
UFTPL6AHFBK305	Black	Reel	305 m	38 x 30 cm	27
UFTPL6AHFGN305	Green	Reel	305 m	38 x 30 cm	27
UFTPL6AHFGY305	Light Grey	Reel	305 m	38 x 30 cm	27
UFTPL6AHFYE305	Yellow	Reel	305 m	38 x 30 cm	27
UFTPL6AHFOE305	Orange	Reel	305 m	38 x 30 cm	27
UFTPL6AHFPK305	Pink	Reel	305 m	38 x 30 cm	27
UFTPL6AHFRD305	Red	Reel	305 m	38 x 30 cm	27

UFTPL6AHF-240124

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Supply Information

Product No	Jacket Colour	Pack Type	Pack Size	Reel Size	Reels / Pallet
UFTPL6AHFVT305	Violet	Reel	305 m	38 x 30 cm	27

- Madison reserves the right to make changes to the products described in this specification without prior notice.
- All values subject to factory tolerances.

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