

LAN Cable

Part No: UFTPL6AHF

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 3080, 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

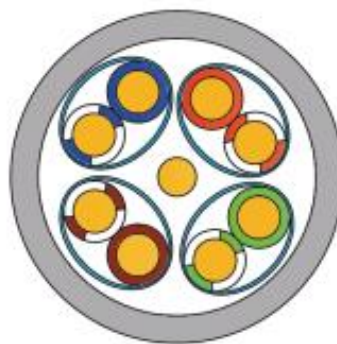


Image for illustration purposes only



Construction

Conductor	Material	PACW
	Size	23 AWG
	Stranding	1/0.56
	Area	0.25 mm ²
	Diameter	0.56 mm

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Construction

	Material	Foam PE		
	Nominal Thickness (mm)	0.38		
	Nominal OD (mm)	1.3		
Insulation		Pair Number	Wire 1	Wire 2
		1	Blue	White + Blue Stripe
	Colour Code	2	Orange	White + Orange Stripe
		3	Green	White + Green Stripe
		4	Brown	White + Brown Stripe
	Nominal OD (mm)	1.3		
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		
	Nominal Thickness (mm)	0.5		
	Nominal OD (mm)	7.4		

Mechanical Properties

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

Flame/Fire Properties

Flame retardancy	IEC 60332-1
Smoke generation	IEC 61034-1 & 2
Halogen and acid gas generation	IEC 60754-1 & 2
AS/NZS 4507 Rating	RHE-1 based on the equivalent IEC standards

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Electrical Properties

Max. Conductor DC Resistance @ 20°C	8.1 Ω/km	
Max. DC Conductor resistance unbalanced	5 %	
Nominal Velocity of Propagation	64%	
Characteristic Impedance(1-250MHz)	Frequency Range	Impedance
	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	

Transmission Properties

Freq (MHz)	1	4	8	10	16	20	31.25	62.5	100	200	300	500
NEXT (dB/100m)	74.3	65.3	60.8	59.3	56.2	54.8	51.9	47.4	44.3	39.8	37.1	33.8
ELFEXT (dB/100m)	67.8	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/100m)	2.1	3.8	5.3	5.9	7.5	8.4	10.5	15.0	20.1	27.6	34.3	45.3
Return Loss (dB/100m)	20.0	23.0	24.5	25.0	25.0	25.0	23.6	21.5	20.1	18.0	16.8	15.2
PSNEXT (dB/100m)	72.3	63.3	58.8	57.3	54.2	52.8	49.9	45.4	42.3	37.8	35.1	31.8
PSELFEXT (dB/100m)	64.8	52.8	46.7	44.8	40.7	38.8	34.9	28.9	24.8	18.8	15.3	10.8
Delay (nsec/100m)	570	552	545	543	542	540	539	538	537	536	536	536
Skew (nsec/100m)	45											

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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
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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