

LAN Cable

Part No: SFTPL6AFIRE

Description

Solid 23AWG PACW, HDPE insulated with a fire barrier tape, twinned, individually screened, cabled, overall tinned copper wire braided, UV stabilized LSZH jacketed, Cat6A cable meeting IEC 60331-23 circuit integrity requirements.

Applicable Standards

ANSI/TIA 568-C.2, ISO/IEC 11801-2, AS/NZS 3080, AS/CA S-008, AS 1049, IEC 60332-1, IEC 60332-3-24, IEC 60331-23, IEC 60754-1, IEC 61034-1 & 2

Suitable Applications

Used for horizontal and fixed wiring in Structured cabling and computer networks operating up to 10 Gbit on Category 6A/Class EA links. Suitable for 10BaseT, 100BaseT, 1000BaseT and 10GBaseT Ethernet applications.

Not suitable for mains connection.

Images

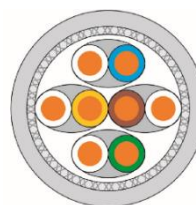
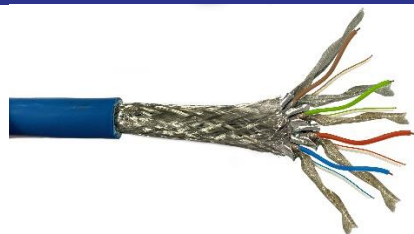


Image for Illustration purposes only



Construction

Conductor	Material	Solid Plain Annealed Copper Wire
	Size	23 AWG
Insulation	Material	HDPE with fire barrier tape
	Pairs	4
Construction	Colour Code	Blue and White/Blue, Orange and White/Orange Green and White/Green Brown and White/Brown
	Material 1	AL/PET laminate foil
Screen	Application 1	Individual screen
	Material 2	50% tinned copper wire braiding

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Construction

Sheath	Application 2	Overall screen
	Material	LSZH (UV stabilized only for Black)
	Colour	Refer to Supply Info Table
	Nominal Thickness (mm)	1.4
	Nominal OD (mm)	10.2

Electrical Properties

Voltage Rating	80V
Max. Conductor DC Resistance @ 20°C	93.8 Ω /km
Characteristic Impedance	100 \pm 15 Ω @ 1- 100 MHz
	100 \pm 22 Ω @ 100- 250 MHz
	100 \pm 25 Ω @ 250- 500 MHz
Velocity of Propagation	Nom 74%
Propagation Delay @ 500MHz	\leq 536 nsec/100m
Delay Skew	\leq 45 nsec/100m
Max. Capacitance Conductor to Cond.	56 pF/m
Voltage Test: Conductor to core	1.5kV dc/1min

Mechanical Properties

Operating Temperature Range	-20°C to +70°C (Operating)
	-0°C to +50°C (Installation)
Max. Recommended Pulling Tension	100N
Min. Bend Radius	160 mm installation (with load)
	100 mm operating (without load)
Approximate Mass	11.4 kg/100m
Fire Performance	IEC 60331-23 (120 mins @ 750C)

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Fire and Flame Performance

Flame propagation – Single wire/cable	IEC 60332-1
Flame propagation – Bunched wires/cables	IEC 60332-3
Circuit integrity under fire conditions	IEC 60331-23 (120 mins)
Smoke generation & light transmittance	IEC 61034.1 & IEC 61034.2
Acid gas and conductivity	IEC 60754.2

Nominal Transmission Properties

Freq. (MHz)	NEXTA (dB/100m)	Insertion Loss (dB/100m)	Return Loss (dB/100m)	ACRF (dB/100m)	PSACRF (dB/100m)
1	74.3	2.1	20.0	67.8	64.8
4	65.3	3.8	23.0	55.8	52.8
16	56.2	7.5	25.0	43.7	40.7
100	44.3	19.1	20.1	27.8	24.8
250	38.3	31.1	17.3	19.8	16.8
500	33.8	45.3	15.2	13.8	10.8

Supply Information

Part No.	Pack Size	Jacket Colour	Pack Type	Reel/Spool Size
SFTPL6AFIREBE100	100m	Blue	Spool	TBA
SFTPL6AFIREBE305	305m	Blue	Spool	TBA
SFTPL6AFIREBE500	500m	Blue	Spool	TBA
SFTPL6AFIREBK100	100m	Black	Spool	TBA
SFTPL6AFIREBK305	305m	Black	Spool	TBA
SFTPL6AFIREBK500	500m	Black	Spool	TBA
SFTPL6AFIRERD100	100m	Red	Spool	TBA

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Supply Information

SFTPL6AFIRERD305	305m	Red	Spool	TBA
SFTPL6AFIRERD500	500m	Red	Spool	TBA

Goes with

MT6AL4524M	Cat6A screened patch panel with angled outlets/jacks
MT6A4501C	Cat6A screened outlet/jack
MTE4524M	Unloaded keystone patch panel.

- 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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