

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

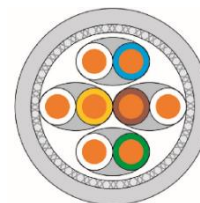
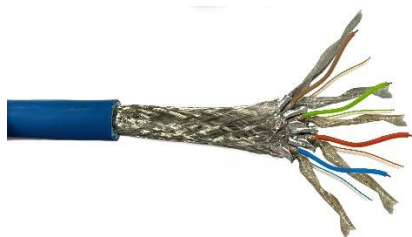


Image for Illustration purposes only.



Features

- Outdoor Cable
- Flame Retardant
- Screened
- UV Stabilized

Construction

Conductor	Material	Solid Plain Annealed Copper Wire
	Size	23 AWG

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SFTPL6AFIRE-240530

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Construction

	Material	HDPE with fire barrier tape
	Nos of Pairs	4
	Insulation	Blue and White/Blue, Orange and White/Orange Green and White/Green Brown and White/Brown
Screen	Material 1	AL/PET laminate foil
	Application 1	Individual screen
	Material 2	50% tinned copper wire braiding
	Application 2	Overall screen
Sheath	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±15Ω @ 1- 100 MHz 100±22Ω @ 100- 250 MHz 100±25Ω @ 250- 500 MHz
Velocity of Propagation	Nom 74%
Propagation Delay @ 500MHz	≤ 536 nsec/100m
Delay Skew	≤ 45 nsec/100m
Max. Capacitance Conductor to Cond.	56 pF/m
Voltage Test: Conductor to core	1.5kV dc/1min

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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 (install)	160 mm installation (with load) 100 mm operating (without load)
Approximate Mass	11.4 kg/100m

Fire and Flame Properties

Flame propagation – Single wire/cable	IEC 60332-1
Flame propagation – Bunched wires/cables	IEC 60332-3-22
Circuit integrity under fire conditions -Circuit integrity @ 110V	IEC 60331-23 (120 mins)
Circuit integrity under fire conditions -Transmission performance @ 70V	IEC 60332-23 (180 mins)
Smoke generation & light transmittance	IEC 61034.1 & IEC 61034.2
Acid gas and conductivity to IEC 60754-1	pH > 4.3 Conductivity < 10µS/mm
Halogen content to IEC 60754-1	< 0.5% (5mg/gm)
AS 4507 rating	CI-3

Transmission Table (dB/100m)

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

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Supply Information

Part No.	Jacket Colour	Length (m)	Pack Type	Reel/Spool Size
SFTPL6AFIREBE100	Blue	100m	Spool	TBA
SFTPL6AFIREBE305	Blue	305m	Spool	TBA
SFTPL6AFIREBE500	Blue	500m	Spool	TBA
SFTPL6AFIREBK100	Black	100m	Spool	TBA
SFTPL6AFIREBK305	Black	305m	Spool	TBA
SFTPL6AFIREBK500	Black	500m	Spool	TBA
SFTPL6AFIRERD100	Red	100m	Spool	TBA
SFTPL6AFIRERD305	Red	305m	Spool	TBA
SFTPL6AFIRERD500	Red	500m	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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