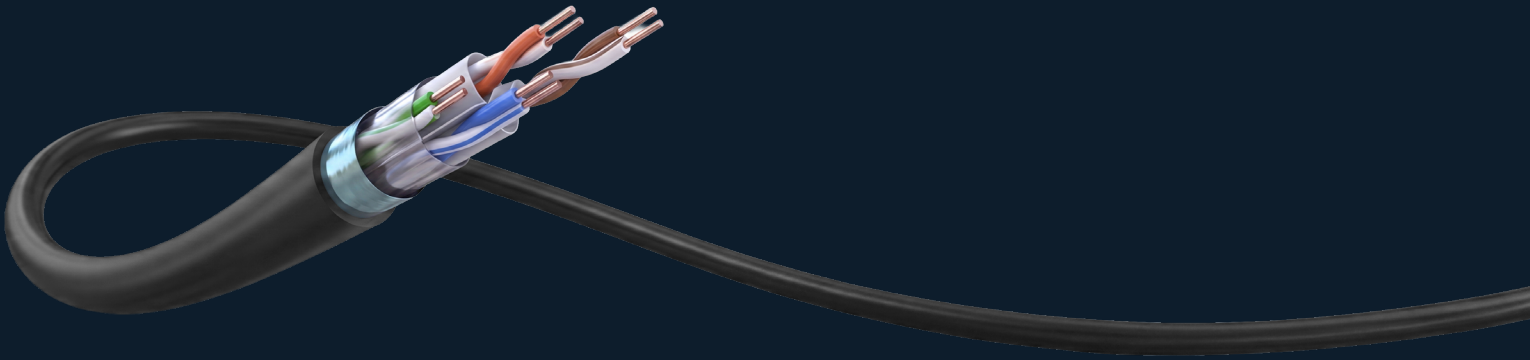


VDC Integrator Series CAT6A F/UTP

F/UTP CAT6A, 23AWG Solid Conductor, LSZH Jacket, CPR B2ca



Application

Horizontal and building backbone Cable, support current and future category 6A applications: such as 10GBase-T (10 Gigabit Ethernet), 1000Base-T (Gigabit Ethernet), 100 Base-T, 10 Base-T, ISDN, ATM as well as PoE application etc.

General

Cable Type	Category 6A
Operating Frequency	500 MHz Max.
Conductor	Solid Copper
Number of Pairs	4
Insulation Material	HDPE
Insulation Color	Blue, White/Blue; Orange, White/Orange; Green, White/Green; Brown, White/Brown
Separator	LDPE
Wrapping	PET Tape
Drain Wire	Tinned Copper
Shielding	Aluminium Foil
Jacket Material	LSZH
Jacket Colour	Matt Black

Electrical Characteristics

Transmission Standards	ANSI/TIA-568.2-D ISO/IEC 11801 EN 50173-1
Operating Voltage	80 V Max.
Characteristic Impedance	100 $\pm$ 15 Ohms (1-100 MHz); 100 $\pm$ 22 Ohms (100-200 MHz); 100 $\pm$ 32 Ohms (200-500 MHz)
Conductor DC Resistance	93.8 Ohms/km
DC Resistance Unbalance	3 % Max.
Insulation Resistance	5000 MOhms/km Min.
Dielectric Strength	1500 Vac 2500 Vdc Min.
Mutual Capacitance	5.6 nF/100m
Pair to Ground Capacitance Unbalance	330 pF/100m
Velocity of Propagation	69 % Nominal
Delay Skew	45 ns Max.

Dimensions

Conductor Diameter	0.56 mm
Insulation Diameter	1.12 mm
Insulation Thickness	0.28 mm
Drain Wire Diameter	0.40 mm
Diameter over Jacket	7.10 mm
Jacket Wall Thickness	0.55 mm

Standard & Compliance

RoHS 3 (EU 2015/863)	Compliant
REACH	Compliant
Flammability	EN 60332-1-2
Smoke Density	EN 61034-2
Halogen Acid Gas Test	IEC 60754-1
Corrosive Gases Test	IEC 60754-2
Reaction to Fire - Bundle Flame Test	EN 50399
CPR Classification	B2ca s1a,d1,a1

Mechanical Characteristics

Operating Temperature	-30°C to +70°C
Bend Radius (Stationary Installation)	36 mm 71 mm
Pull Tension	100 N Max.
Before Ageing	
Tensile Strength	$\geq$ 9.5 MPa
Elongation	$\geq$ 125 %
After Ageing (110°C $\pm$ 2°C, 168 h)	
Tensile Strength	$\geq$ 70 % of unaged
Elongation	$\geq$ 70 % of unaged
UV Resistance	ISO 4892-3