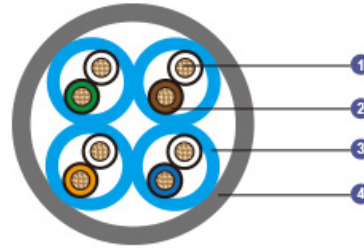


**CAT 6 U/FTP 23AWG**



<b>Application</b>	These Cat6 U/FTP cables are manufactured in accordance with IEC 61156-5 requirements, can support all Class E applications like Ethernet, Fast Ethernet, Gigabit Ethernet, suitable for basic voice and data installations up to 250MHz.
<b>Standards</b>	EN 50288 ISO 11801 IEC 61156-5 IEC 60332-1 IEC 60754-1/2 IEC 61034
<b>Construction</b>	
<b>Conductors</b>	Solid bare copper conductor.
<b>Insulation</b>	PE.
<b>Twinning</b>	Two coloured insulated conductors twisted together to form a pair.
<b>Individual Screen</b>	Al/polyester tape.
<b>Drain Wire</b>	Tinned copper wire.
<b>Outer Sheath</b>	LSOH (SHF1).
<b>Core Identification</b>	Pair 1: White, Blue Pair 2: White, Orange Pair 3: White, Green Pair 4: White, Brown

**Electrical Properties**

<b>Maximum Loop Resistance</b>	Ω/km	145
<b>Maximum Resistance Unbalance</b>		2%
<b>Minimum Insulation Resistance</b>	MΩ.km	1000
<b>Nominal Capacitance @800Hz</b>	nF/km	45
<b>Maximum Capacitance Unbalance (pair to ground)</b>	pF/km	800

<b>Characteristic Impedance @1-100MHz</b>	$\Omega$	100 $\pm$ 5
<b>Nominal Velocity of Propagation</b>		0.75c
<b>Maximum Propagation Delay</b>	ns/100 m	500
<b>Maximum Delay Skew</b>	ns/100 m	20
<b>Maximum Transfer Impedance @1MHz</b>	m $\Omega$ /m	50
<b>Maximum Transfer Impedance @10MHz</b>	m $\Omega$ /m	100
<b>Maximum Transfer Impedance @30MHz</b>	m $\Omega$ /m	200
<b>Minimum Coupling Attenuation</b>	dB	55

**Nominal Transmission Characteristics @20°C**

F	Attenuation	NEXT	PS-NEXT	ACR	PS-ACR	ELFEXT	PS-ELFEXT	Return Loss
MHz	dB/100m	dB	dB	dB/100m	dB/100m	dB/100m	dB/100m	dB
1	2.0	90	87	88	85	85	82	
4	3.6	90	87	86	83	85	82	27
10	5.7	90	87	84	81	79	76	30
16	7.2	90	87	83	80	75	72	30
20	8.1	90	87	82	79	73	70	30
31.25	10.2	90	87	80	77	69	66	30
62.50	14.7	90	87	75	72	63	60	30
100	18.9	90	87	71	68	59	56	30
155	24.0	88	85	64	61	55	52	26
200	27.0	88	85	61	58	53	50	25
250	31.4	86	83	55	52	51	48	25
300	34.8	86	83	51	48	49	46	23
400	38.1	86	83	48	45	44	41	23

**Mechanical and Thermal Properties**

Bending Radius: 8×OD (during installation); 4×OD (fixed installed)

Temperature Range: -20°C ~ +60°C

**Dimensions and Weight**

Part No.	Construction No. of elements×No. of cores in element×Cross section(mm <sup>2</sup> )	Nominal Insulation Thickness mm	Nominal Sheath Thickness mm	Nominal Overall Diameter mm	Nominal Weight kg/km
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MLN- U/FTPCAT64P23	4×2×23AWG	0.23	0.63	7.5	61
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