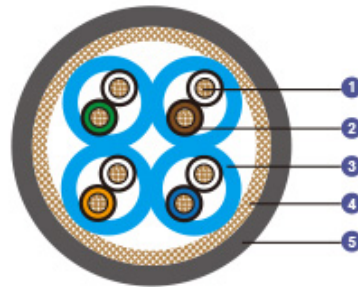


Cat 7 S/FTP 23AWG 4P/8P



Application	These Cat7 S/FTP cables are manufactured in accordance with IEC 61156-5 requirements, can support all Class F applications like Ethernet, Fast Ethernet, Gigabit Ethernet, suitable for voice, data, CATV and sharing application installations up to 600MHz.		
Standards	EN 50173-1 EN 50288-4-1 ISO/IEC 11801 IEC 61156-5 IEC 60332-1 (for LSOH & FRLSOH Sheath) IEC 60754-2 (for LSOH & FRLSOH Sheath) IEC 61034 (for LSOH & FRLSOH Sheath) IEC 60332-3-24 (for FRLSOH Sheath)		
Construction			
Conductors	Solid bare copper conductor.		
Insulation	Foam skin PE.		
Twinning	Two coloured insulated conductors twisted together to form a pair.		
Individual Screen	Al/polyester tape.		
Overall Screen	Tinned copper wire braid.		
Outer Sheath	LSOH/FRLSOH.		
Core Identification	Pair 1: White, Blue Pair 2: White, Orange Pair 3: White, Green Pair 4: White, Brown		
Electrical Properties			
Maximum Loop Resistance	Ω/km	165	
Maximum Resistance Unbalance		2%	
Minimum Insulation Resistance (500V)	$M\Omega.\text{km}$	2000	
Nominal Mutual Capacitance @800Hz	nF/km	43	

Maximum Capacitance Unbalance (pair to ground)	pF/km	1500
Characteristic Impedance @1-100MHz	Ω	100 ± 5
Nominal Velocity of Propagation		ca. 79%
Maximum Propagation Delay	ns/100 m	427
Maximum Delay Skew	ns/100 m	12
Maximum Transfer Impedance @1MHz	mΩ /m	5
Maximum Transfer Impedance @10MHz	mΩ /m	5
Maximum Transfer Impedance @30MHz	mΩ /m	10
Minimum Coupling Attenuation	dB	85

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	1.8	100	97	98	95	105	105	20.5
4	3.4	100	97	97	94	105	102	27
10	5.4	100	97	95	92	97	94	30
16	6.8	100	97	93	90	93	90	30
20	7.7	100	97	92	89	91	88	30
31.2	9.6	100	97	90	87	87	84	30
62.5	13.7	100	97	86	83	81	78	30
100	17.4	100	97	83	80	77	74	30
125.0	19.5	95	92	75	72	75	72	26
155.5	21.9	94	91	72	69	73	70	26
175.0	23.3	93	90	70	67	72	69	25
200.0	25.0	92	89	67	64	71	68	25
250.0	28.1	90	87	62	59	69	66	24
300.0	30.9	89	86	58	55	67	64	24
450.0	38.3	87	84	48	45	64	61	23
600.0	44.8	85	82	40	37	61	58	22
750.0	52.0	83	80	31	28	59	56	21
900.0	59.4	82	79	23	20	58	55	20
1000.0	63.1	80	77	17	14	57	54	20

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 ²)	Nominal Insulation Thickness mm	Nominal Sheath Thickness mm	Nominal Overall Diameter mm	Nominal Weight kg/km
UE092- S/FTPCAT74P23	4×2×23AWG	0.41	0.75	7.5	75
UE092- S/FTPCAT78P23	2×(4×2×23AWG)	0.41	0.75	7.5×15.0	150