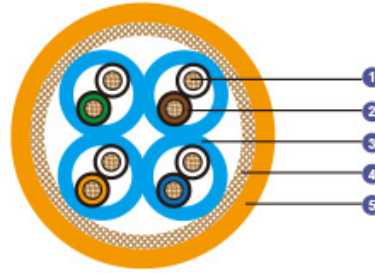


Cat 7 S/FTP 0.27 mm²



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 60332-3-24 IEC 60754-2 IEC 61034		
Construction			
Conductors	Stranded copper conductor.		
Insulation	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	Oil resistant, flame retardant and halogen free LSOH (SHF1).		
Core Identification	Pair 1: White, Blue Pair 2: White, Orange Pair 3: White, Green Pair 4: White, Brown		
Electrical Properties			
Maximum DC Loop Resistance	Ω/km	138	
Maximum Resistance Unbalance		2%	
Minimum Insulation Resistance (500V)	MΩ.km	5000	
Nominal Capacitance @800Hz	nF/km	43	

Maximum Capacitance Unbalance (pair to ground)	pF/km	1500
Mean Characteristic Impedance @100MHz	Ω	100 ± 5
Nominal Velocity of Propagation		0.76c
Maximum Propagation Delay	ns/100 m	450
Maximum Delay Skew	ns/100 m	15
Maximum Transfer Impedance @1MHz	mΩ /m	10
Maximum Transfer Impedance @10MHz	mΩ /m	8
Maximum Transfer Impedance @30MHz	mΩ /m	10
Minimum Coupling Attenuation	dB	85

Nominal Transmission Characteristics @20°C

F	Attenuation	NEXT	ACR	Return Loss	PS-NEXT	PS-ACR	ELFEXT	PS-ELFEXT
MHz	dB/100m	dB	dB/100m	dB	dB	dB/100m	dB/100m	dB/100m
1	2.0	90	88		87	85	85	82
4	3.6	90	86	27	87	83	85	82
10	5.5	90	84	30	87	81	79	76
16	7.5	90	82	30	87	79	75	72
20	7.7	90	82	30	87	79	73	70
31.25	9.8	90	80	30	87	77	69	66
62.5	14.0	86	72	30	83	69	63	60
100	17.9	83	65	30	80	62	59	56
155.0	22.4	81	59	26	78	55	57	54
200.0	25.6	78	52	25	75	49	53	50
250.0	28.8	77	48	25	74	45	51	48
300.0	31.6	73	41	23	70	38	47	44
600.0	45.7	71	25	20	68	22	44	41

Mechanical and Thermal Properties

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

Temperature Range: -40°C ~ +85°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/FTPCAT74P27S	4×2×0.27	0.47	0.75	8.1	75