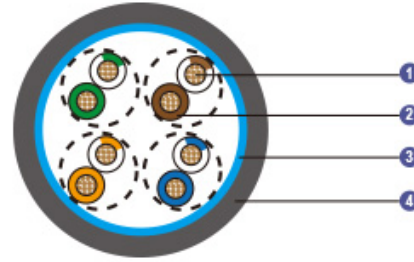


Cat 5e F/UTP 24AWG



Application	These Cat5e F/UTP cables are manufactured in accordance with IEC 61156-5 requirements, can support all Class D applications like Ethernet, Fast Ethernet, Gigabit Ethernet, suitable for basic voice and data installations up to 100MHz.		
Standards	EN 50288 ISO 11801 IEC 61156-5 IEC 60332-1 IEC 60754-1/2 IEC 61034		
Construction			
Conductors	Solid bare copper conductor.		
Insulation	PE.		
Twinning	Two coloured insulated conductors twisted together to form a pair.		
Overall Screen	Al/polyester tape.		
Drain Wire	Tinned copper wire.		
Outer Sheath	LSOH (SHF1).		
Core Identification	Pair 1: White/Blue, Blue Pair 2: White/Orange, Orange Pair 3: White/Green, Green Pair 4: White/Brown, Brown		
Electrical Properties			
Maximum Loop Resistance	Ω/km	190	
Maximum Resistance Unbalance			2%
Minimum Insulation Resistance	MΩ.km	1000	
Nominal Capacitance @800Hz	nF/km	48	
Maximum Capacitance Unbalance (pair to ground)	pF/km	1500	

Characteristic Impedance @1-100MHz	Ω	100 ± 15
Nominal Velocity of Propagation		ca. 67%
Maximum Propagation Delay	ns/100 m	535
Maximum Delay Skew	ns/100 m	20
Maximum Transfer Impedance @1MHz	mΩ /m	50
Maximum Transfer Impedance @10MHz	mΩ /m	100
Maximum Transfer Impedance @30MHz	mΩ /m	200
Minimum Coupling Attenuation	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	1.9	71	68	69.1	66.1	68	65	20
4	3.7	62	59	58.3	55.3	56	53	23
10	6.0	56	53	50	47.0	48	45	25
16	7.6	53	50	45.4	42.4	44	41	25
20	8.5	51	48	42.5	39.5	42	39	25
31.2	10.7	49	46	38.3	35.3	38	35	24
62.5	15.7	44	41	28.2	25.3	32	29	22
100	19.8	41	38	21.2	18.2	28	25	20
125.0	22.3	40	37	17.7	14.7	26	23	19
155.5	24.2	38	35	13.8	10.8	24	21	
175.0	25.7	37	34	11.3	8.3	23	20	
200.0	27.5	36	33	8.5	5.5	22	19	
250.0	29.2	35	32	5.8	2.8	20	17	
300.0	32.0	34	31	2.0	-1.0	16	13	

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- F/UTPCAT5E4P24	4×2×24AWG	0.25	0.75	6.97	54