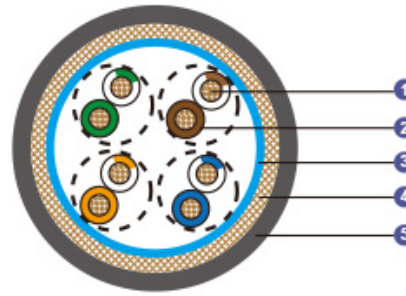


**Cat 5e SF/UTP 24AWG 4P/8P**



<b>Application</b>	These Cat5e SF/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.		
<b>Standards</b>	EN 50173-1 EN 50288-2-1 ISO/IEC 11801 IEC 61156-5 TIA/EIA-568-B.2 IEC 60332-1 (for PVC & LSOH & FRLSOH Sheath) IEC 60754-2 (for LSOH & FRLSOH Sheath) IEC 61034 (for LSOH & FRLSOH Sheath) IEC 60332-3-24 (for FRLSOH Sheath)		
<b>Construction</b>			
<b>Conductors</b>	Bare copper conductor.		
<b>Insulation</b>	PE.		
<b>Twinning</b>	Two coloured insulated conductors twisted together to form a pair.		
<b>Overall Screen1</b>	Al/polyester tape.		
<b>Overall Screen2</b>	Tinned copper wire braid.		
<b>Outer Sheath</b>	PVC/LSOH/FRLSOH.		
<b>Core Identification</b>	Pair 1: White/Blue, Blue Pair 2: White/Orange, Orange Pair 3: White/Green, Green Pair 4: White/Brown, Brown		
<b>Electrical Properties</b>			
<b>Maximum Loop Resistance</b>	Ω/km	190	
<b>Maximum Resistance Unbalance</b>			2%
<b>Minimum Insulation Resistance</b>	MΩ.km	1000	

<b>Nominal Capacitance @800Hz</b>	nF/km	48
<b>Maximum Capacitance Unbalance (pair to ground)</b>	pF/km	1500
<b>Characteristic Impedance @1-100MHz</b>	Ω	100 ± 15
<b>Nominal Velocity of Propagation</b>		ca. 67%
<b>Maximum Propagation Delay</b>	ns/100 m	535
<b>Maximum Delay Skew</b>	ns/100 m	20
<b>Maximum Transfer Impedance @1MHz</b>	mΩ /m	20
<b>Maximum Transfer Impedance @10MHz</b>	mΩ /m	20
<b>Maximum Transfer Impedance @30MHz</b>	mΩ /m	30
<b>Maximum Transfer Impedance @100MHz</b>	mΩ /m	60
<b>Minimum Coupling Attenuation</b>	dB	75

**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 <sup>2</sup> )	Nominal Insulation Thickness mm	Nominal Sheath Thickness mm	Nominal Overall Diameter mm	Nominal Weight kg/km
UE092- SF/UTPCAT5E4P24	4×2×24AWG	0.29	0.6	6.4	47
UE092- SF/UTPCAT5E8P24	2×(4×2×24AWG)	0.29	0.6	13.0×6.4	94