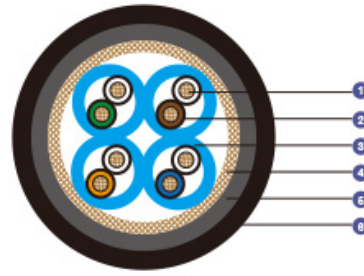


**Mud Resistant Cat 5e S/FTP 0.22mm<sup>2</sup>**



<b>Application</b>	These Cat5e S/FTP 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. These cables have additional flame retardant, halogen-free, low smoke MUD protecting outer sheaths.
<b>Standards</b>	EN 50173-1 EN 50288-2-1 ISO/IEC 11801 IEC 61156-5 IEC 60332-3-24 IEC 60754-1/2 IEC 61034-1/2
<b>Construction</b>	
<b>Conductors</b>	Stranded 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>Overall Screen</b>	Tinned copper wire braid.
<b>Inner Sheath</b>	Oil resistant, flame retardant and halogen free LSOH (SHF1).
<b>Outer Sheath</b>	MUD protecting.
<b>Core Identification</b>	Pair 1: White, Blue Pair 2: White, Orange Pair 3: White, Green Pair 4: White, Brown

**Electrical Properties**

<b>Maximum DC Loop Resistance</b>	Ω/km	158
<b>Maximum Resistance Unbalance</b>		2%
<b>Minimum Insulation Resistance (500V)</b>	MΩ.km	5000

<b>Nominal Capacitance @800Hz</b>	nF/km	43
<b>Maximum Capacitance Unbalance (pair to ground)</b>	pF/km	1500
<b>Mean Characteristic Impedance @100MHz</b>	Ω	100 ± 5
<b>Nominal Velocity of Propagation</b>		0.75c
<b>Maximum Propagation Delay</b>	ns/100 m	450
<b>Maximum Delay Skew</b>	ns/100 m	15
<b>Maximum Transfer Impedance @1MHz</b>	mΩ /m	10
<b>Maximum Transfer Impedance @10MHz</b>	mΩ /m	8
<b>Maximum Transfer Impedance @30MHz</b>	mΩ /m	10
<b>Minimum Coupling Attenuation</b>	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	2.1	90	88		87	85	85	82
4	4.0	90	86	27	87	83	85	82
10	6.3	90	84	30	87	81	79	76
16	8.0	90	82	30	87	79	75	72
20	9.0	90	81	30	87	78	73	70
31.25	11.4	90	79	30	87	76	69	66
62.5	16.5	86	70	30	83	67	63	60
100	21.3	83	62	30	80	59	59	56
155.0	24.2	81	57	26	78	54	57	54
200.0	31.5	78	47	25	75	44	53	50
250	35.8	77	41	25	74	38	51	48
300.0	47.1	73	26	23	70	23	47	44
600.0	60.1	71	11	20	68	8	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 <sup>2</sup> )	Nominal Insulation Thickness mm	Nominal Sheath Thickness mm		Nominal Overall Diameter mm	Nominal Weight kg/km
			Inner	Outer		
UE092- S/FTPCAT5EM4P22S	4×2×0.22	0.4	0.75	0.9	9.5	100