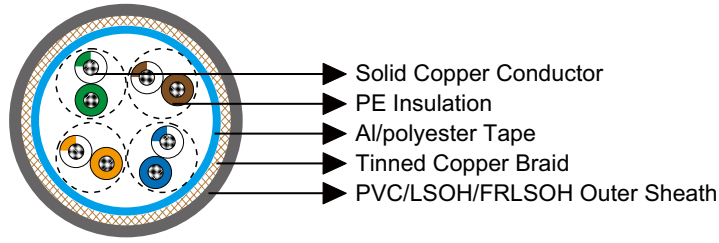
Cat 5e SF/UTP 24AWG 4P/8P

Application

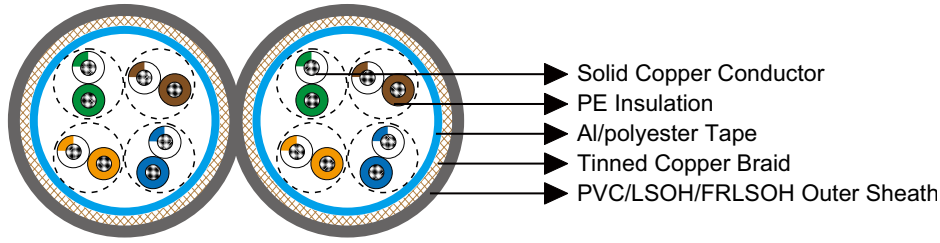
These Cat5e SF/UTP cables are manufactured in accordance with IEC 61156-5 requirements, can support all Class D applications like Ethernet, Fast Ethernet, Gigabit Ethernet, suitable for basic voice and data installations up to 100MHz.

Standards



- 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)

Construction



- Conductors: Bare copper conductor.
- Insulation: PE.
- Twinning: Two coloured insulated conductors twisted together to form a pair.
- Overall Screen1: Al/polyester tape.
- Overall Screen2: Tinned copper wire braid.
- Outer Sheath: PVC/LSOH/FRLSOH.

Core Identification

Pair 1: White/Blue, Blue
Pair 2: White/Orange, Orange
Pair 3: White/Green, Green
Pair 4: White/Brown, Brown

Electrical Properties

Characteristic Impedance(1-100MHz)	Ω	100±15
Nominal Velocity of Propagation(NVP)		69%
Maximum Mutual Capacitance	nF/100m	5.6
Maximum Capacitance Unbalance	pF/100m	330
Maximum Resistance Unbalance		5%
Maximum Propagation Delay Skew	ns/100m	30
Maximum Propagation Delay@100MHz	ns/100m	536
Voltage Rating	V rms	80

Nominal Transmission Characteristics @20℃

FREQ	NEXT	Attenuation	RL	ACR	ELFEXT	PSNEXT	PSACR	PSELFEXT
MHz	dB/100m	dB/100m	dB/100m	dB/100m	dB/100m	dB/100m	dB/100m	dB/100m
1	65.3	2.0	20.2	63.3	63.8	62.3	60.3	60.8
4	56.3	4.1	23.0	52.2	51.7	53.3	49.2	48.7
8	51.8	5.8	24.5	46	45.7	48.8	43	42.7
10	50.3	6.5	25.0	43.8	43.8	47.3	40.8	40.8
16	47.3	8.2	25.0	39.1	39.7	44.3	36.1	36.7
20	45.8	9.3	25.0	36.5	37.7	42.8	33.5	34.7
25	44.3	10.4	24.3	33.9	35.8	41.3	30.9	32.8
31.25	42.9	11.7	23.6	31.2	33.9	39.9	28.2	30.9
62.5	38.4	17.0	21.5	21.4	27.8	35.4	18.4	24.8
100	35.3	22.0	20.1	13.3	23.8	32.3	10.3	20.8
155	32.5	28.1	18.8	4.4	19.9	29.5	-1.4	16.9
200	30.7	32.4	18.0	-1.7	18.7	27.7	-4.7	15.7
310	29.3	41.8	17.3	N/A	10.0	26.3	N/A	13.0
350	27.1	44.9	17.3	N/A	7.1	24.1	N/A	10.1

* Data for 100MHz above are for reference only

Mechanical and Thermal Properties

Bending Radius: 8×OD (during installation); 4×OD (fixed installed)
Temperature Range: -20℃ ~ +60℃

Dimensions and Weight

Part No.	Construction No. of elements×No. of cores in element×Cross section(mm²)	Nominal Insulation Thickness mm	Nominal Sheath Thickness mm	Nominal Overall Diameter mm	Nominal Weight kg/km
MLN-SF/UTPCAT5E4P24	4×2×24AWG	0.29	0.6	6.4	47
MLN-SF/UTPCAT5E8P24	2×(4×2×24AWG)	0.29	0.6	13.0×6.4	94