



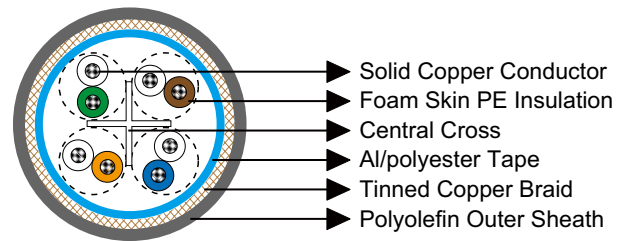
Cat 6 SF/UTP 24AWG 4P/8P

Application

These Cat6 SF/UTP cables are manufactured in accordance with IEC 61156-5 requirements, can support all Class E applications like Ethernet, Fast Ethernet, Gigabit Ethernet, suitable for basic voice and data installations up to 250MHz.

Standards

- EN 50288
- ISO 11801
- IEC 61156-5
- IEC 60332-1
- IEC 60754-1/2
- IEC 61034



Construction

- Central Cross
- Conductors: Solid bare copper conductor.
- Insulation: Foam skin PE.
- Twining: Two coloured insulated conductors twisted together to form a pair.
- Overall Screen1: Al/polyester tape.
- Overall screen2: Tinned copper wire braid.
- Outer Sheath: Polyolefin.

Core Identification

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

Electrical Properties

Characteristic Impedance(1-250MHz)	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		3%
Maximum Propagation Delay Skew(1-125MHz)	ns/100m	30
Maximum Propagation Delay@100MHz	ns/100m	536

Nominal Transmission Characteristics @20°C

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
1.0	74.3	2.0	20.0	72.2	67.8	72.3	70.2	64.8
4.0	65.3	3.8	23.0	61.4	55.8	63.3	59.5	52.8
8.0	60.8	5.3	24.5	55.4	49.7	58.8	53.5	46.7
10.0	59.3	6.0	25.0	53.3	47.8	57.3	51.3	44.8
16.0	56.2	7.6	25.0	48.6	43.7	54.2	46.6	40.7
20.0	54.8	8.5	25.0	46.3	41.8	52.8	44.3	38.8
25.0	53.3	9.5	24.3	43.8	39.8	51.3	41.8	36.8
31.3	51.9	10.7	23.6	41.1	37.9	49.9	39.1	34.9
62.5	47.4	15.4	21.5	31.9	31.9	45.4	29.9	28.9
100.0	44.3	19.8	20.1	24.4	27.8	42.3	22.4	24.8
200.0	39.8	29.0	18.0	10.6	21.8	37.8	8.6	18.8
250.0	38.3	32.8	17.3	5.3	19.8	36.3	3.3	16.8
300.0	37.1	36.4	16.8	0.5	18.3	35.1	-1.5	15.3
350.0	36.1	39.8	16.3	-3.8	16.9	34.1	-5.8	13.9
400.0	35.3	43.0	15.9	-7.9	15.8	33.3	-9.9	12.8
450.0	34.5	46.3	15.5	-10.5	14.7	32.5	-12.5	11.7
500.0	33.8	48.9	15.2	-15.3	13.8	31.8	-17.3	10.8
550.0	33.2	51.8	14.9	-18.6	12.9	31.2	-20.6	9.9
600.0	32.4	54.5	14.7	-21.9	12.2	30.6	-23.9	9.2

* Data for 250MHz above are for reference only

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
MLN-SF/UTPCAT64P24	4×2×24AWG	0.31	1.2	7.6	60
MLN-SF/UTPCAT68P24	2×(4×2×24AWG)	0.31	1.2	15.2×7.6	120

